FILE FOLDER

DESCRIPTION ON TAB:

Hazardous Mat. Inv. Sheets

☐ **Outside/inside of actual folder did not contain hand written information**

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9/08

I 6 • • • HAZARDOUS ITEM QUARTERLY CHANGES • • •

NSN	FSCM	MGR	F P IND	PN IND	PART NUMBER/TRADE NAME	ACT CD	DATE	PAGE NR
6850-00-401-7912	05732	CX	D	A	MAGIC LENS CLEANING & ANTI-FOGGING FLUID		84024	

• • • • GENERAL INFORMATION • • • •

PROPRIETARY NO

MANUFACTURER: THE SILICONE PAPER CO. OF AMERICA, INC.

EMERGENCY TELE NO: 201-469-2200

ITEM NAME	UI CN	UI CONTAINER QTY	TYPE OF CONT	NET UNIT WT	MAG/MILGAUS	EXEMPTION
CLEANING COMPOUND,OPTICAL LENS		10 OZ	AEROSOL			

AEROSOL PROPELLANT: ISOBUTANE/PROPANE(LESS THAN 1 WT% OF TOTAL CONTENTS,PER MFG)

SPECIFICATION

RADIOACTIVITY	FORM	TR GP	NRC LIC NUMBER	CHEMICAL NAME	CHEMICAL FAMILY	FORMULA
				NOT A SINGLE CHEMICAL	ALCOHOL-WATER MIXTURE	MIXTURE

• • • • • HAZARDOUS COMPONENTS • • • • •

NIOSH NO	CHEMICAL NAME	PCT	T L V
NT8050000	ISOPROPYL ALCOHOL(C.A.S.NO.67-63-0)	<26	400 PPM
MN9275000	HEXANE (C.A.S.NO.110-54-3)	<1	50 PPM
MA8050000	GLYCERINE (C.A.S.NO.56-81-5)	UNK	5 MG/CUM(MIST
WC5600000	SODIUM NITRATE(C.A.S.NO.7631-99-4)	<1	UNK
TZ4300000	ISOBUTANE/PROPANE(PROPELLANT):REMAINING INGRED LISTED UNDER P/N 2ND B,THIS NSN,MFG	<1	UNK

• • • • • • TRANSPORTATION DATA • • • • • •

DOT SHIPPING NAME: CONSUMER COMMODITY

CLASS: ORM-D LABEL: NONE MODE: ID NO: N/A RQ:

WATER SHIPPING NAME: AEROSOLS DISPENSERS

CLASS: MISCELLANEOUS DANGEROUS LABEL: NONE UN NO: 1950 UN CLASS: 9 COM GP: DOT: YES INCO YE

TARIFF 6-D SHIPPING: N/A,REFER TO 49 CFR

CLASS: LABEL:

IATA SHIPPING NAME: AEROSOLS,NON-FLAMMABLE,N.O.S.

CLASS: NON FLAMMABLE GAS LABEL: NON FLAMMABLE GAS IATA ARTICLE NO: 1950

AFR 71-4 SHIPPING NAME: COMPRESSED GAS N.O.S.

CLASS: NON FLAMMABLE GAS LABEL: NON FLAMMABLE GAS MMAC:

• • • • • • ADDITIONAL DATA • • • • • •

AEROSOL CANS:DO NOT STORE ABOVE 120F OR IN DIRECT SUNLIGHT.DO NOT PUNCTURE OR INCINERATE.SEE OTHER INGRED UNDER P/N B,THIS NSN,MF SPECIFIED IMO AND DOT SHIPPING NAME.

GCLQ15 G 8 • • • HAZARDOUS ITEM QUARTERLY CHANGES • • •

NSN	FSCM	MGR	F P IND	PN IND	PART NUMBER/TRADE NAME	ACT CD	DATE	PAGE NR
6850-00-973-9091	53984		D	A	PENETRATING FLUID		79163	1

• • • • GENERAL INFORMATION • • • •

PROPRIETARY NO: CHEMSCOPE

MANUFACTURER

EMERGENCY TELE NO: 748-0526

ITEM NAME: PENETRATING FLUID

UI: CN | UI CONTAINER QTY: 12 OZ | TYPE OF CONT | NET UNIT WT | MAG/MILGAUS | EXEMPTION NO

AEROSOL PROPELLANT

SPECIFICATION: O-P-1731

RADIOACTIVITY | FORM | TR GP | NRC LIC NUMBER | CHEMICAL NAME: N.A. | CHEMICAL FAMILY: AEROSOL LUBRICANT | FORMULA: COMPOUNDED PRODUCT

• • • • • HAZARDOUS COMPONENTS • • • • •

NIOSH NO	CHEMICAL NAME	PCT	TLV
1000128FC	FLUOROCARBONS(TYPE NOT SPECIFIED)	100	UNKNOWN

• • • • • • TRANSPORTATION DATA • • • • • •

DOT SHIPPING NAME: COMPRESSED GAS,N.O.S.

CLASS: NON FLAMMABLE GAS LABEL: NONE-LTD QTY MODE: N/A ID NO: RQ:

WATER SHIPPING NAME: COMPRESSED OR LIQUEFIED GASES, NON FLAMMABLE, NON TOXIC,N.O.S.(FLUOROCARBONS)

CLASS: NON FLAMMABLE GAS LABEL: NON FLAMMABLE GAS UN NO: 1956 UN CLASS: 2.1 COM GP: DOT: YES IMCO YES

TARIFF 6-D SHIPPING: N/A

CLASS: LABEL:

IATA SHIPPING NAME: COMPRESSED GASES,N.O.S.,NON FLAMMABLE

CLASS: NON FLAMMABLE GAS LABEL: NON FLAMMABLE GAS IATA ARTICLE NO: 510

AFR 71-4 SHIPPING NAME: COMPRESSED GAS,N.O.S.

CLASS: NON FLAMMABLE GAS LABEL: NON FLAMMABLE GAS MMAC:

• • • • • • ADDITIONAL DATA • • • • • •

M 8

N S N

ACT CD DATE PAGE NR

6850-00-973-9091 • • • • HEALTH AND PHYSICAL PROPERTY DATA • • • • 79163 2

BOILING POINT	VAP DEN/AIR=1/	SOL IN H20	FLASH POINT	VAP PRESS/MM HG/70 F/	TLV-MIXTURE	STORAGE CODE
210F		COMPLETE	N.A.		UNKNOWN	L6

APPEARANCE AND ODOR
CLEAR,COLORLESS,MILD ODOR.

LEL/PCT/	UEL/PCT/	SP GR	PCT VOLT BY VOL	EVAP RATE PER REFERENCE
		1.018		

EFFECTS OF OVEREXPOSURE

NONE

WET PROP WT-AMMO WET EXP WT

STABLE
YES

CONDITIONS TO AVOID

MATERIALS TO AVOID

HAZ POLYMERIZATION OCCUR
NO

CONDITIONS TO AVOID

AUTO IGN TEMP VISCOSITY CG AMMO CD

HAZARDOUS DECOMPOSITION PRODUCTS

• • • • SAFETY STORAGE HANDLING AND FIRE FIGHTING PROCEDURES • • • •

EXTINGUISHING MEDIA

N.A.

SPECIAL FIRE FIGHTING PROCEDURES

N.A.

UNUSUAL FIRE / EXPLOSION HAZARDS

N.A.

PROTECTIVE GLOVES

EMERGENCY FIRST AID PROCEDURES

NONE

TYPE OF RESPIRATORY PROTECTION

N.A.

VENTILATION

LOCAL EXHAUST

EYE PROTECTION

OTHER PROTECTIVE EQUIPMENT

HANDLING / STORAGE PRECAUTIONS

KEEP OUT OF REACH OF CHILDREN;DO NOT E
XPOSE TO TEMP ABOVE 130F MAY CAUSE BURSTING.DO NOT PUNCTURE;DO NOT USE OR STORE NEAR HEAT OR OPEN FLAME.

• • • • SPILL AND LEAK PROCEDURES • • • •

SPILL AND LEAK CONTROL

MOP OR WIPE UP WITH SOAP & WATER.

WASTE ELIMINATION

DO NOT INCINERATE OR PUNCTURE CAN.STORE IN APPROVED STORAGE CONTAINERS & SHIP TO APPROVED DISPOSAL AREA.

OTHER PRECAUTIONS

SUPPLEMENTAL DATA

NEVER THROW CONTAINER INTO FIRE OR INCINERATOR.SPRAY AWAY FROM F
ACE & EYES

GLC019 N A

* * * HAZARDOUS ITEM BASIC PUBLICATION * * *

NSN	FSCM	NCGR	F P IND	PN IND	PART NUMBER/TRADE NAME	ACT CD	DATE	PAGE NR
7930-00-880-4454	23894	GSA	G	A	DISHWASH SOAP HAND		82277	1

* * * * GENERAL INFORMATION * * * *

PROPRIETARY NO

MANUFACTURER: CONTINENTAL CHEMICAL CORP

EMERGENCY TELE NO: 812-235-8035

COMPOUND

ITEM NAME: AEROSOL PROPELLANT

UI: GL

UI CONTAINER QTY: 1 GALLON

TYPE OF CONT

NET UNIT WT: 13.5 LBS.

MAG/NILGAUS

EXEMPTION NO

RADIOACTIVITY

FORM

TR GP

NRC LIC NUMBER: N/A

CHEMICAL NAME: N/A

CHEMICAL FAMILY: N/A

SPECIFICATION: P-D-410

FORMULA: N/A

* * * * * HAZARDOUS COMPONENTS * * * * *

NIOSH NO	CHEMICAL NAME	PCT	T L V
N/A			

* * * * * * TRANSPORTATION DATA * * * * * *

DOT SHIPPING NAME: N/A

CLASS: LABEL:

WATER SHIPPING NAME: N/A

CLASS: LABEL: MODE: ID NO: RG:

TARIFF 6-D SHIPPING:

CLASS: LABEL: UN NO: UN CLASS: COM GP: DOT: NO IMCO NO

IATA SHIPPING NAME:

CLASS: LABEL:

AFR 71-4 SHIPPING NAME:

CLASS: LABEL: IATA ARTICLE NO:

NMAC:

* * * * * * ADDITIONAL DATA * * * * * *

N 4

N S N

7930-00-880-4454

* * * * HEALTH AND PHYSICAL PROPERTY DATA * * * *

ACT CD	DATE	PAGE NR
	81139	2

BOILING POINT	VAP DEN/AIR=1/	SOL IN H20	FLASH POINT	VAP PRESS/MM HG/70 F/	TLV-MIXTURE	STORAGE CODE
212F 100C	N/A	COMPLETE	NONE	N/A	NONE	

APPEARANCE AND ODOR

CLEAR AMBER LIQUID

LEL/PCT/	UEL/PCT/	SP GR	PCT VOLT BY VOL	EVAP RATE PER REFERENCE
N/A	N/A	1.05	70	> DIMETHYL ETHER

NONE

EFFECTS OF OVEREXPOSURE

NET PROP WT-AMMO NEW LB

STABLE
YES

EXTREME HEAT AND COLD

CONDITIONS TO AVOID

N/A

MATERIALS TO AVOID

HAZ POLYMERIZATION OCCUR
NO

N/A

CONDITIONS TO AVOID

AUTO IGN TEMP VISCOSITY CG AMMO CO

N/A

HAZARDOUS DECOMPOSITION PRODUCTS

* * * * SAFETY STORAGE HANDLING AND FIRE FIGHTING PROCEDURES * * * *

NONE

EXTINGUISHING MEDIA

NONE

SPECIAL FIRE FIGHTING PROCEDURES

N/A

UNUSUAL FIRE / EXPLOSION HAZARDS

PROTECTIVE GLOVES
NONE

N/A

EMERGENCY FIRST AID PROCEDURES

NONE

TYPE OF RESPIRATORY PROTECTION

N/A

VENTILATION

EYE PROTECTION

NONE

NONE

OTHER PROTECTIVE EQUIPMENT

HANDLING / STORAGE PRECAUTIONS
NORMAL CHEMICAL HANDLING PROCEDURES

* * * * SPILL AND LEAK PROCEDURES * * * *

SPILL AND LEAK CONTRO

FLUSH WITH WATER

WASTE ELIMINATION

FLUSH WITH WATER

OTHER PRECAUTIONS

N/A

SUPPLEMENTAL DATA

PRODUCT DOES NOT BURN

3

0 4

NSN	FSCM	MGR	F P IND	PN IND	* * * HAZARDOUS ITEM BASIC PUBLICATION * * * PART NUMBER/TRADE NAME	ACT CD	DATE	PAGE N
6840-00-721-6055	27689		G	A	GSA AIR DEODORANT			

* * * * GENERAL INFORMATION * * * *

PROPRIETARY NO	MANUFACTURER	EMERGENCY TELE NO
	MYSAN CORP.	312--376-8900

ITEM NAME	UI	UI CONTAINER QTY	TYPE OF CONT	NET UNIT WT	MAG/MILGAUS	EXEMPTION
AEROSOL PROPELLANT						

RADIOACTIVITY	FORM	TR GP	NRC LIC NUMBER	CHEMICAL NAME	CHEMICAL FAMILY	SPECIFICATION FORMULA
					GSA AIR DEODORANT	

* * * * * HAZARDOUS COMPONENTS * * * * *

NIOSH NO	CHEMICAL NAME	PCT	T L V
10001781S	ISOPARAFF INIC PETROLEUM DISTILLATE	9	400 UNITS
10002571P	ISOBUTANE PROPANE PROPELLANT	35	1000 UNITS.

* * * * * * TRANSPORTATION DATA * * * * * *

DOT SHIPPING NAME:

CLASS: LABEL: MODE: ID NO: RQ:

WATER SHIPPING NAME:

CLASS: LABEL: UN NO: UN CLASS: COM GP: DOT: IMCO

TARIFF 6-D SHIPPING:

CLASS: LABEL:

IATA SHIPPING NAME:

CLASS: LABEL: IATA ARTICLE NO:

AFR 71-4 SHIPPING NAME:

CLASS: LABEL: MMAC:

* * * * * * ADDITIONAL DATA * * * * * *

A S

N S N

6840-00-721-6055

ACT CD DATE PAGE

81322

* * * * HEALTH AND PHYSICAL PROPERTY DATA * * * *

BOILING POINT	VAP DEN/AIR=1/	SOL IN H2O	FLASH POINT	VAP PRESS/MM HG/70 F/	TLV-MIXTURE	STORAGE
100/212	>1	INSOLUBLE	>93/>200 TCC	30		

APPEARANCE AND ODOR

MILKY-WHITE,STABLE,W TER-IN-OIL EMULSION,PERFUMED

LEL/PCT/	UEL/PCT/	SP GR	PCT VOLT BY VOL	EVAP RATE PER REFERENCE
		0.96	99	ETHER = 1: >1

EFFECTS OF OVEREXPOSURE

INHAL OF HIGH VAPOR CONCENTRATIONS MAY CAUSE DIZZINESS,HEADACHES,OR UNCONSCIOUSNESS.

NET PROP WT-AMMO NEW

STABLE

NO

CONDITIONS TO AVOID

EXCESSIVE HEAT

MATERIALS TO AVOID

NONE

HAZ POLYMERIZATION OCCUR

NO

CONDITIONS TO AVOID

AUTO IGN TEMP VISCOSITY CG AMM

HAZARDOUS DECOMPOSITION PRODUCTS

CARBON MONOXIDE IF INCOMPLETELY COMBUSTED

* * * * SAFETY STORAGE HANDLING AND FIRE FIGHTING PROCEDURES * * * *

EXTINGUISHING MEDIA

CARBON DIOXIDE

SPECIAL FIRE FIGHTING PROCEDURES

KEEP CONTAINERS COOL;USE SHIELDING TO PROTECT PERSONNEL

UNUSUAL FIRE / EXPLOSION HAZARDS

AT ELEVATED TEMP.(OVER 130F)CONTANERS MAY VENT,RUPTURE OR BURST.

PROTECTIVE GLOVES

EMERGENCY FIRST AID PROCEDURES

REMOVE TO FRESH AIR AND CALL DR. EYE:FLUSH WITH PLENTY OF WATER.

TYPE OF RESPIRATORY PROTECTION

NONE

VENTILATION

NORMAL LOCAL EXHAUST

EYE PROTECTION

AVOID CONTACT

OTHER PROTECTIVE EQUIPMENT

HANDLING / STORAGE PRECAUTIONS

DO NOT DROP.DO NOT STORE AT TEMP.EX

DING 130F.

* * * * SPILL AND LEAK PROCEDURES * * *

SPILL AND LEAK CONTROL

MOP UP

WASTE ELIMINATION

DO NOT PUNCTURE OR INCINERATE.GIVE TO A DISPOSAL SERVICE EQUIPPED TO HANDLE AND DISPOSE OF PRESSURIZED CONTAINERS.

OTHER PRECAUTIONS

SUPPLEMENTAL DATA

DO NOT INCINERATE.AVOID CONTAMINATION OF FOOD.DO NOT SPRAY IN EY

ES.KEEP OUT OF REACH OF CHILDREN.

GLC019 B 5 * * * HAZARDOUS ITEM BASIC PUBLICATION * * *

N S N	FSCM	MGR	F P IND	PN IND	PART NUMBER/TRADE NAME	ACT CD	DATE	PAGE NR
6840-00-721-6055	53984	GSA	G	A	DEODERANT		80078	1

* * * * GENERAL INFORMATION * * * *

PROPRIETARY NO	MANUFACTURER	EMERGENCY TELE NO
	CHEMSCOPE CORPORATION	

ITEM NAME	UI	UI CONTAINER QTY	TYPE OF CONT	NET UNIT WT	MAG/MILGAUS	EXEMPTION
AEROSOL ROOM DEODERANT	CN	16-OZ	AEROSOL			

AEROSOL PROPELLANT

SPECIFICATION P-D-200

RADIOACTIVITY	FORM	TR GP	NRC LIC NUMBER	CHEMICAL NAME	CHEMICAL FAMILY	FORMULA

* * * * * HAZARDOUS COMPONENTS * * * * *

NIOSH NO	CHEMICAL NAME	PCT	T L V

* * * * * * TRANSPORTATION DATA * * * * * *

DOT SHIPPING NAME: CONSUMER COMMODITY-ORM-D

CLASS: ORM-D LABEL: NONE MODE: ID NO: RQ:

WATER SHIPPING NAME:

CLASS: LABEL: UN NO: UN CLASS: COM GP: DOT: IMCO

TARIFF 6-D SHIPPING:

CLASS: LABEL:

IATA SHIPPING NAME:

CLASS: LABEL: IATA ARTICLE NO:

AFR 71-4 SHIPPING NAME:

CLASS: LABEL: MMAC:

* * * * * * ADDITIONAL DATA * * * * * *

C 5

N S N

ACT CD DATE PAGE N

6840-00-721-6055 * * * * HEALTH AND PHYSICAL PROPERTY DATA * * * * 80078

BOILING POINT	VAP DEN/AIR=1/	SOL IN H2O	FLASH POINT	VAP PRESS/MM HG/70 F/	TLV-MIXTURE	STORAGE C
180F;82C		COMPLETE	NONE			

APPEARANCE AND ODOR	LEL/PCT/	UEL/PCT/	SP GR	PCT VOLT BY VOL	EVAP RATE PER REFERENCE
			0.906	100	

EFFECTS OF OVEREXPOSURE

CAN CAUSE SKIN IRRITATION.IRRITANT TO EYES.IF TAKEN INTERNALLY WILL CAUSE SICKNESS

NET PROP WT-AMMO NEW L

STABLE	CONDITIONS TO AVOID	MATERIALS TO AVOID
YES		

HAZ POLYMERIZATION OCCUR	CONDITIONS TO AVOID	AUTO IGN TEMP	VISCOSITY	CG AMMO
NO				

HAZARDOUS DECOMPOSITION PRODUCTS

* * * * SAFETY STORAGE HANDLING AND FIRE FIGHTING PROCEDURES * * * *

EXTINGUISHING MEDIA

CO=2,POWDER AND OTHER NORMAL EXTINGUISHING MEDIA.

SPECIAL FIRE FIGHTING PROCEDURES

NONE

UNUSUAL FIRE / EXPLOSION HAZARDS

PROTECTIVE GLOVES

EMERGENCY FIRST AID PROCEDURES

WASH SKIN WITH SOAP & WATER.FLUSH EYES THOROUGHLY WITH WATER.CONSULT PHYSICIAN IF IRRITATION PERSISTS.IF INGESTED CONSULT PHYSICIAN IMMEDIATELY;TREAT A ISOPROPYL ALCOHOL POISONING

TYPE OF RESPIRATORY PROTECTION

VENTILATION

LOCAL EXHAUST

EYE PROTECTION

OTHER PROTECTIVE EQUIPMENT

HANDLING / STORAGE PRECAUTIONS

KEEP OUT OF REACH OF CHILDREN.CONTEI

UNDER PRESSURE-DO NOT USE OR STORE NEAR HEAT OR OPEN FLAME.DO NOT THROW INTO INCINERATOR.

* * * * SPILL AND LEAK PROCEDURES * * * *

SPILL AND LEAK CONTROL

MOP OR WIPE UP WITH WATER

WASTE ELIMINATION

NORMAL AEROSOL DISPOSAL METHOD

OTHER PRECAUTIONS

SUPPLEMENTAL DATA

AVOID TEMPERATURES EXCEEDING 130F

GLC019 D 5 * * * HAZARDOUS ITEM BASIC PUBLICATION * * *

NSN	FSCM	MGR	F P IND	PN IND	PART NUMBER/TRADE NAME	ACT CD	DATE	PAGE
6840-00-721-6055	81348	75	D	A	P-D-200,DEODORANT,GEN. PURPOSE(BEFORE 6/77)		84062	

*** * * * GENERAL INFORMATION * * * ***

PROPRIETARY NO	MANUFACTURER BOUGHT ACCORDING TO SPECIFICATION	EMERGENCY TELE NO

ITEM NAME	UI	UI CONTAINER QTY	TYPE OF CONT	NET UNIT WT	MAG/MILGAUS	EXEMPTIO
DEODORANT,GENERAL PURPOSE	CN	<27 OZS	AEROSOL			

AEROSOL PROPELLANT

FLUOROCARBON:TYPE 11, 12, AND 114 MAY BE USED PRIOR TO JUNE 1977; AFTER JUNE'77,FLUOROCARBONS PROHIBITED — SPECIFICATION P-D-200

RADIOACTIVITY	FORM	TR GP	NRC LIC NUMBER	CHEMICAL NAME	CHEMICAL FAMILY	FORMULA

*** * * * * HAZARDOUS COMPONENTS * * * * ***

NIOSH NO	CHEMICAL NAME	PCT	T L V
1000002CF	CHLOROFLUOROHYDROCARBONS		

*** * * * * * TRANSPORTATION DATA * * * * * ***

DOT SHIPPING NAME: COMPRESSED GAS,N.O.S.

CLASS: NON FLAMMABLE GAS LABEL: NONE-LTD QTY MODE: ID NO: *UN1956 RQ:

WATER SHIPPING NAME: AEROSOL DISPENSER

CLASS: NON FLAMMABLE GAS LABEL: NON FLAMMABLE GAS UN NO: 1950 UN CLASS: 2.2 COM GP: DOT: YES IMCO

TARIFF 6-D SHIPPING: N/A,REFER TO DOT(TITLE-49)

CLASS: LABEL:

IATA SHIPPING NAME: AEROSOLS NON-FLAMMABLE,N.O.S.(FLUOROCARBON PROPELLANT)

CLASS: NON FLAMMABLE GAS LABEL: NON FLAMMABLE GAS IATA ARTICLE NO: 1950

AFR 71-4 SHIPPING NAME: COMPRESSED GAS,N.O.S.

CLASS: NON FLAMMABLE GAS LABEL: NON FLAMMABLE GAS MMAC:

*** * * * * * ADDITIONAL DATA * * * * * ***

AS OF JAN.1980, CID A-A-267,COULD BE USED IN LIEU OF P-D-200.

E S

N S N

6840-00-721-6055

ACT CD DATE PAGE

84062

* * * * HEALTH AND PHYSICAL PROPERTY DATA * * * *

BOILING POINT VAP DEN/AIR=1/ SOL IN H2O FLASH POINT N/A FOR AEROSOL VAP PRESS/MM HG/70 F/ TLV-MIXTURE STORAGE P2

APPEARANCE AND ODOR LEL/PCT/ UEL/PCT/ SP GR PCT VOLT BY VOL EVAP RATE PER REFERENCE

EFFECTS OF OVEREXPOSURE NET PROP WT-AMMO NEW

STABLE CONDITIONS TO AVOID MATERIALS TO AVOID

HAZ POLYMERIZATION OCCUR CONDITIONS TO AVOID AUTO IGN TEMP VISCOSITY CG AMM

HAZARDOUS DECOMPOSITION PRODUCTS

* * * * SAFETY STORAGE HANDLING AND FIRE FIGHTING PROCEDURES * * * *

EXTINGUISHING MEDIA SPECIAL FIRE FIGHTING PROCEDURES

UNUSUAL FIRE / EXPLOSION HAZARDS PROTECTIVE GLOVES

EMERGENCY FIRST AID PROCEDURES

TYPE OF RESPIRATORY PROTECTION VENTILATION

EYE PROTECTION OTHER PROTECTIVE EQUIPMENT HANDLING / STORAGE PRECAUTIONS

* * * * SPILL AND LEAK PROCEDURES * * * *

SPILL AND LEAK CONTROL

WASTE ELIMINATION

OTHER PRECAUTIONS SUPPLEMENTAL DATA

GLC019 L 8

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* * * HAZARDOUS ITEM BASIC PUBLICATION * * *

N S N	FSCM	MGR	F P IND	PN IND	PART NUMBER/TRADE NAME	ACT CD	DATE	PAGE NR
7930-00-899-9534	23894	GSA	G	A	DISHWASHING SOAP		80028	1

* * * * GENERAL INFORMATION * * * *

PROPRIETARY NO

MANUFACTURER
CONTINENTAL CHEMICAL CORP.

EMERGENCY TELE NO
812-235-8035

ITEM NAME	UI	UI CONTAINER QTY	TYPE OF CONT	NET UNIT WT	MAG/MILGAUS	EXEMPTION NO
DISHWASHING SOAP	EA					

AEROSOL PROPELLANT

SPECIFICATION
P-D-410

RADIOACTIVITY	FORM	TR GP	NRC LIC NUMBER	CHEMICAL NAME	CHEMICAL FAMILY	FORMULA

* * * * * HAZARDOUS COMPONENTS * * * * *

NIOSH NO	CHEMICAL NAME	PCT	T L V

* * * * * * TRANSPORTATION DATA * * * * * *

DOT SHIPPING NAME: CLEANING COMPOUND

CLASS: LABEL: MODE: ID NO: RQ:

WATER SHIPPING NAME:

CLASS: LABEL: UN NO: UN CLASS: COM GP: DOT: IMCO

TARIFF 6-D SHIPPING:

CLASS: LABEL:

IATA SHIPPING NAME:

CLASS: LABEL: IATA ARTICLE NO:

AFR 71-4 SHIPPING NAME:

CLASS: LABEL: MMAC:

* * * * * * ADDITIONAL DATA * * * * * *

N 8

N S N

7930-00-899-9534

ACT CD DATE PAGE NR

80028 2

* * * * HEALTH AND PHYSICAL PROPERTY DATA * * * *

BOILING POINT
212F; 100C

VAP DEN/AIR=1/

SOL IN H2O
COMPLETE

FLASH POINT
NONE

VAP PRESS/MM HG/70 F/

TLV-MIXTURE

STORAGE CODE

APPEARANCE AND ODOR
CLEAR AMBER LIQUID

LEL/PCT/

UEL/PCT/

SP GR
1.05

PCT VOLT BY VOL
70.0

EVAP RATE PER REFERENCE
1 WATER

EFFECTS OF OVEREXPOSURE

MET PROP WT-AMMO

MEW LB

STABLE
YES

CONDITIONS TO AVOID

MATERIALS TO AVOID

HAZ POLYMERIZATION OCCUR
NO

CONDITIONS TO AVOID

AUTO IGN TEMP

VISCOSITY

CG AMMO CD

HAZARDOUS DECOMPOSITION PRODUCTS

* * * * SAFETY STORAGE HANDLING AND FIRE FIGHTING PROCEDURES * * * *

EXTINGUISHING MEDIA

SPECIAL FIRE FIGHTING PROCEDURES

UNUSUAL FIRE / EXPLOSION HAZARDS

PROTECTIVE GLOVES

EMERGENCY FIRST AID PROCEDURES

TYPE OF RESPIRATORY PROTECTION

VENTILATION

EYE PROTECTION

OTHER PROTECTIVE EQUIPMENT

HANDLING / STORAGE PRECAUTIONS
NORMAL CHEMICAL HANDLING METHODS.

* * * * SPILL AND LEAK PROCEDURES * * * *

SPILL AND LEAK CONTROL
FLUSH WITH WATER

WASTE ELIMINATION
FLUSH WITH WATER

OTHER PRECAUTIONS

SUPPLEMENTAL DATA

GLC019 N 8

* * * HAZARDOUS ITEM BASIC PUBLICATION * * *

NSN	FSCM	MGR	F P IND	PN IND	PART NUMBER/TRADE NAME	ACT CD	DATE	PAGE NR
A 7930-00-000-0534	55208	N	A		ED-322	A	85183	1

* * * * GENERAL INFORMATION * * * *

PROPRIETARY NO

MANUFACTURER: ELDORADO CHEMICAL CO, INC.

EMERGENCY TELE NO: 512-653-2060

ITEM NAME	UI	UI CONTAINER QTY	TYPE OF CONT	NET UNIT WT	MAG/MILGAUS	EXEMPTION NO
DISINFECTING COMPOUND,HAND						

AEROSOL PROPELLANT

SPECIFICATION: P-D-410

RADIOACTIVITY	FORM	TR CP	NRC LIC NUMBER	CHEMICAL NAME	CHEMICAL FAMILY	FORMULA

* * * * * HAZARDOUS COMPONENTS * * * * *

NIOSH NO	CHEMICAL NAME	PCT	T L V
[illegible]	SODIUM DODECYLBENZENE SULFONATE		
[illegible]	NONYLPHENOL ETHYLENE OXIDE CONDENSATE	10-30%	0-10

* * * * * * TRANSPORTATION DATA * * * * * *

DOT SHIPPING NAME: N/A

CLASS: LABEL: MODE: ID NO: RQ:

WATER SHIPPING NAME: N/A

CLASS: LABEL: UN NO: UN CLASS: COM CP: DOT: IMCO

TARIFF 6-D SHIPPING: N/A

CLASS: LABEL:

IATA SHIPPING NAME: N/A

CLASS: LABEL: IATA ARTICLE NO:

AFR 71-4 SHIPPING NAME: N/A

CLASS: LABEL: NMAC:

* * * * * * ADDITIONAL DATA * * * * * *

NOT RESTRICTED.

0 8

N S N

7930-00-899-9534

ACT CD DATE PAGE NR
84130 2

*** * * * HEALTH AND PHYSICAL PROPERTY DATA * * * ***

BOILING POINT	VAP DEN/AIR=1/	SOL IN H2O	FLASH POINT	VAP PRESS/MM HG/70 F/	TLV-MIXTURE	STORAGE CODE
215F;102C	1	SOLUBLE	NONE	20		

APPEARANCE AND ODOR
SLIGHTLY VISCOUS CLEAR LIQUID

LEL/PCT/	UEL/PCT/	SP GR	PCT VOLT BY VOL	EVAP RATE PER REFERENCE
		1	60	1 WATER=1

EFFECTS OF OVEREXPOSURE
SKIN:IRRITATION ON PROLONGED CONTACT.

MET PROP WT-AMMO NEW LB

STABLE
YES

CONDITIONS TO AVOID
NONE

MATERIALS TO AVOID

HAZ POLYMERIZATION OCCUR
NO

CONDITIONS TO AVOID

AUTO IGN TEMP VISCOSITY CG AMMO CD

HAZARDOUS DECOMPOSITION PRODUCTS

*** * * * SAFETY STORAGE HANDLING AND FIRE FIGHTING PROCEDURES * * * ***

EXTINGUISHING MEDIA
N/A

SPECIAL FIRE FIGHTING PROCEDURES
NONE

UNUSUAL FIRE / EXPLOSION HAZARDS
NONE

PROTECTIVE GLOVES
RUBBER

EMERGENCY FIRST AID PROCEDURES
SKIN:RINSE W/ WATER & APPLY SOOTHING LOTION.

TYPE OF RESPIRATORY PROTECTION
NONE REQ

VENTILATION
NOT REQUIRED

EYE PROTECTION
NONE

OTHER PROTECTIVE EQUIPMENT

HANDLING / STORAGE PRECAUTIONS
AVOID PROLONGED SKIN CONTACT

*** * * * SPILL AND LEAK PROCEDURES * * * ***

SPILL AND LEAK CONTROL
RINSE W/ WATER

WASTE ELIMINATION
MFR RECOMMENDS FLUSHING TO SEWER. DISPOSAL METHOD MUST BE IAW FEDERAL, STATE & LOCAL CODES.

OTHER PRECAUTIONS

SUPPLEMENTAL DATA

OTHER EMERGENCY PHONE:512-494-5337

GLC019 A 9 * * * HAZARDOUS ITEM BASIC PUBLICATION * * *

NSN	FSCM	MGR	F P IND	PN IND	PART NUMBER/TRADE NAME	ACT CD	DATE	PAGE NR
7930-00-899-9534	59972	GSA	G	A	PC235			1

*** * * * GENERAL INFORMATION * * * ***

PROPRIETARY: YES

MANUFACTURER: CORROLL COMPANY

EMERGENCY TELE NO: 214-278-1304

ITEM NAME: LIQUID SOAP

UI | UI CONTAINER QTY | TYPE OF CONT | NET UNIT WT | MAG/MILGAUS | EXEMPTION NO

AEROSOL PROPELLANT

SPECIFICATION: P-B-410

RADIOACTIVITY | FORM | TR GP | NRC LIC NUMBER | CHEMICAL NAME | CHEMICAL FAMILY | FORMULA

*** * * * * HAZARDOUS COMPONENTS * * * * ***

NIOSH NO	CHEMICAL NAME	PCT	T L V

*** * * * * * TRANSPORTATION DATA * * * * * ***

DOT SHIPPING NAME:

CLASS: LABEL: MODE: ID NO: RQ:

WATER SHIPPING NAME:

CLASS: LABEL: UN NO: UN CLASS: CON GP: DOT: IMCO

TARIFF 6-D SHIPPING:

CLASS: LABEL:

IATA SHIPPING NAME:

CLASS: LABEL: IATA ARTICLE NO:

AFR 71-4 SHIPPING NAME:

CLASS: LABEL: MMAC:

*** * * * * * ADDITIONAL DATA * * * * * ***

B 9

N S N

7930-00-899-9534

ACT CD DATE 81225 PAGE NR 2

*** * * * HEALTH AND PHYSICAL PROPERTY DATA * * * ***

BOILING POINT 212F,100C | VAP DEN/AIR=1/ | SOL IN H2O COMPLETE | FLASH POINT NONE | VAP PRESS/MM HG/70 F/ | TLV-MIXTURE NA | STORAGE CODE

APPEARANCE AND ODOR
AMBER TRANSPARENT LIQUID

LEL/PCT/ | UEL/PCT/ | SP GR 1.01 | PCT VOLT BY VOL | EVAP RATE PER REFERENCE

EFFECTS OF OVEREXPOSURE
NONE

NET PROP WT-AMMO | NEW LB

CONDITIONS TO AVOID
STABLE YES NONE

MATERIALS TO AVOID
NONE

HAZ POLYMERIZATION OCCUR
NO

CONDITIONS TO AVOID
NONE

AUTO IGN TEMP | VISCOSITY | CG AMMO CD

HAZARDOUS DECOMPOSITION PRODUCTS
NONE

*** * * * SAFETY STORAGE HANDLING AND FIRE FIGHTING PROCEDURES * * * ***

EXTINGUISHING MEDIA
NA

SPECIAL FIRE FIGHTING PROCEDURES
NA

UNUSUAL FIRE / EXPLOSION HAZARDS
NA

PROTECTIVE GLOVES

EMERGENCY FIRST AID PROCEDURES
NONE

TYPE OF RESPIRATORY PROTECTION
NONE

VENTILATION
NONE

EYE PROTECTION

OTHER PROTECTIVE EQUIPMENT

HANDLING / STORAGE PRECAUTIONS
NONE

*** * * * SPILL AND LEAK PROCEDURES * * * ***

SPILL AND LEAK CONTROL
FLUSH WITH WATER

WASTE ELIMINATION
WASH DOWN DRAIN

OTHER PRECAUTIONS
AVOID EYE CONTACT.

SUPPLEMENTAL DATA

(2)

GLCSTD	E O	PSCN	MGR	F P IND	PN IND	* * * HAZARDOUS ITEM - MARKS PUBLICATIONS * * * PART NUMBER/TRADE NAME	ACT CD	DATE	PAGE NR
6505-00-687-7904		1A862		N	A	6-6-1276,DETERGENT,PINE OIL,GEN PURPOSE		81072	1

* * * * GENERAL INFORMATION * * * *

PROPRIETARY NO

MANUFACTURER
LIGHTHOUSE FOR THE BLIND

EMERGENCY TELE NO
713-527-9561

ITEM NAME

UI UI CONTAINER QTY TYPE OF CONT NET UNIT WT MAG/NIL/GAUS EXEMPTION NO
QT 1 QT

AEROSOL PROPELLANT

SPECIFICATION
6-6-1276

RADIOACTIVITY FORM TR CP NRC LIC NUMBER CHEMICAL NAME CHEMICAL FAMILY FORMULA
N/A

* * * * * HAZARDOUS COMPONENTS * * * * *

NIOSH NO	CHEMICAL NAME	PCT	T L V
TK5100000	PINE OIL		100 PPM (TWA)

* * * * * * TRANSPORTATION DATA * * * * * *

DOT SHIPPING NAME: N/A
CLASS: LABEL: MODE: ID NO: RQ:

WATER SHIPPING NAME: N/A
CLASS: LABEL: UN NO: UN CLASS: COM CP: DOT: IMCO

TARIFF 6-D SHIPPING: N/A
CLASS: LABEL:

IATA SHIPPING NAME: N/A
CLASS: LABEL: IATA ARTICLE NO:

AFR 71-4 SHIPPING NAME: N/A
CLASS: LABEL: NMAC:

* * * * * * ADDITIONAL DATA * * * * * *

NOT REG FOR SHIPPING OR CAN

F 6

N S N

6840-00-687-7904

ACT CD DATE PAGE NR

81322 2

* * * * HEALTH AND PHYSICAL PROPERTY DATA * * * *

BOILING POINT	VAP DEN/AIR=1/	SOL IN H20	FLASH POINT	VAP PRESS/MM HG/70 F/	TLV-MIXTURE	STORAGE CODE
365F		COMPLETE	205F TCC	760	100 PPM (MFG)	

APPEARANCE AND ODOR
STRAW YELLOW, PINE ODOR

LEL/PCT/	UEL/PCT/	SP GR	PCT VOLT BY VOL	EVAP RATE PER REFERENCE
		0.9555	77.0	>1.0 ETHER

EFFECTS OF OVEREXPOSURE
SLIGHT HLTH HAZ AS KIDNEY IRRIT, LOCAL IRRIT & CHRONIC SYSTEMIC.MOD HLTH HAZ IF INH, ABSORB;AS ALLRG

NET PROP WT-AMMO N/A

NEW LB

STABLE
YES

CONDITIONS TO AVOID

MATERIALS TO AVOID
AVOID EXPOSURE TO OXIDIZING MATERIALS

HAZ POLYMERIZATION OCCUR
NO

CONDITIONS TO AVOID

AUTO IGN TEMP

VISCOSITY

CG AMMO CD

HAZARDOUS DECOMPOSITION PRODUCTS

* * * * SAFETY STORAGE HANDLING AND FIRE FIGHTING PROCEDURES * * * *

EXTINGUISHING MEDIA
WATER, CO=2, FOAM, DRY CHEMICALS

SPECIAL FIRE FIGHTING PROCEDURES

UNUSUAL FIRE / EXPLOSION HAZARDS

PROTECTIVE GLOVES
CHEM RESISTANT

EMERGENCY FIRST AID PROCEDURES
SKIN:WASH THOROUGHLY W/WATER. EYES:WASH THOROUGHLY W/WATER.INGESTION:DO NOT INDUCE VOMITING. DRINK 2 OR 3 GLASSES OF MILK. CO
NTACT A MD.

TYPE OF RESPIRATORY PROTECTION
AS NEEDED TO MAINTAN LEVELS BELOW TLV

VENTILATION
RECOMMENDED

EYE PROTECTION
SAFETY GOGGLES

OTHER PROTECTIVE EQUIPMENT
AS CONDITIONS DICTATE

HANDLING / STORAGE PRECAUTIONS
KEEP AWAY FROM EXTREME TEMPERATURE. KE
EP AWAY FROM FLAMES. USE ONLY W/ADEQUATE VENTILATION.

* * * * SPILL AND LEAK PROCEDURES * * * *

SPILL AND LEAK CONTROL
ELIMINATE IGNITION SOURCE, STOP SPILL AT ONCE, CONTAINS SPILL BY DIKE, ETC. PUMP INTO SALVAGE TANK, WASH SPILL ON FLOOR W/WAT
ER.

WASTE ELIMINATION
MFG RECM LIQUID INCINERATION, IF IN ACCORDANCE W/FED, STATE & LOCAL CODES

OTHER PRECAUTIONS

AVOID CONTACT W/OXIDIZING MATERIAL.

SUPPLEMENTAL DATA

ACCORDING TO "AN IDENT SYST FOR OCCUPATIONALLY HAZ MATERIALS,"RA
TING 2 INDICATES MODERATE HLTH HAZ:MINOR TEMP OR PERM INJURY;RAT
ING 1 INDICATES SLIGHT HLTH HAZ:MINOR REVERSIBLE INJURY

GLC019 G 6 * * * HAZARDOUS ITEM BASIC PUBLICATION * * *

N S N	FSCM	MGR	F P IND	PN IND	PART NUMBER/TRADE NAME	ACT CD	DATE	PAGE NR
6840-00-687-7904	33333		N	A	O-D-1276A,PINE OIL SOAP CONCENTRATE		81072	1

*** * * * GENERAL INFORMATION * * * ***

PROPRIETARY NO

MANUFACTURER: T&R CHEMICALS, INC.

EMERGENCY TELE NO: (915) 851-2761

ITEM NAME	UI BT	UI CONTAINER QTY	TYPE OF CONT	NET UNIT WT	MAG/MILGAUS	EXEMPTION NO
AEROSOL PROPELLANT		1 QT				

SPECIFICATION: O-D-1276

RADIOACTIVITY	FORM	TR GP	NRC LIC NUMBER	CHEMICAL NAME	CHEMICAL FAMILY	FORMULA
			NA			

*** * * * * HAZARDOUS COMPONENTS * * * * ***

NIOSH NO	CHEMICAL NAME	PCT	T L V
TK5100000	PINE OIL (MINIMUM 80%)		
1000037S0	SOAP (MINIMUM 8%)		

*** * * * * * TRANSPORTATION DATA * * * * * ***

DOT SHIPPING NAME: N/A

CLASS: LABEL: MODE: ID NO: RQ:

WATER SHIPPING NAME: N/A

CLASS: LABEL: UN NO: UN CLASS: COM GP: DOT: IMCO

TARIFF 6-D SHIPPING: N/A

CLASS: LABEL:

IATA SHIPPING NAME: N/A

CLASS: LABEL: IATA ARTICLE NO:

AFR 71-4 SHIPPING NAME: N/A

CLASS: LABEL: MMAC:

*** * * * * * ADDITIONAL DATA * * * * * ***

NOT REG FOR SHIPPING OR CAN

H 6

N S N

6840-00-687-7904

ACT CD DATE PAGE NR
81236 2

* * * * HEALTH AND PHYSICAL PROPERTY DATA * * * *

BOILING POINT
365F

VAP DEN/AIR=1/

SOL IN H2O
COMPLETE

FLASH POINT
205F TCC

VAP PRESS/MM HG/70 F/
76

TLV-MIXTURE

STORAGE CODE

APPEARANCE AND ODOR
STRAW YELLOWL, PINE ODOR

LEL/PCT/

UEL/PCT/

SP GR
0.955

PCT VOLT BY VOL
77.

EVAP RATE PER REFERENCE

EFFECTS OF OVEREXPOSURE
AVOID SKIN AND EYE CONTACT. DO NOT INGEST.

NET PROP WT-AMMO
NA

NEW LB

STABLE
YES

CONDITIONS TO AVOID
N/A

MATERIALS TO AVOID

HAZ POLYMERIZATION OCCUR
NO

CONDITIONS TO AVOID

AUTO IGN TEMP

VISCOSITY

CG AMMO CD

HAZARDOUS DECOMPOSITION PRODUCTS
N/A

* * * * SAFETY STORAGE HANDLING AND FIRE FIGHTING PROCEDURES * * * *

EXTINGUISHING MEDIA
WATER, CO=2, FOAM

SPECIAL FIRE FIGHTING PROCEDURES
NONE

UNUSUAL FIRE / EXPLOSION HAZARDS
NONE

PROTECTIVE GLOVES

EMERGENCY FIRST AID PROCEDURES
SKIN:WASH THOROUGHLY WITH WATER. EYES:WAS THOROUGHLY W/WATER. CALL MD. INGESTION: DO NOT INDUCE VOMITING CALL MD.

TYPE OF RESPIRATORY PROTECTION
NONE

VENTILATION
LOCAL EXHAUST-MFG RECOMMENDS EXHAUST FAN

EYE PROTECTION
SFTY GLASSES W/SIDE SHLD

OTHER PROTECTIVE EQUIPMENT

HANDLING / STORAGE PRECAUTIONS
KEEP AWAY FROM EXTRME TEMPERATURES.

* * * * SPILL AND LEAK PROCEDURES * * * *

SPILL AND LEAK CONTROL
WASH AREA THOROUGHLY W/WATER

WASTE ELIMINATION
DISPOSE IN ACCORDANCE W/LOCAL, STATE & FEDERAL CODES.

OTHER PRECAUTIONS

SUPPLEMENTAL DATA

MFR ADDRESS: T&R CHEMICALS, INC., P. O. BOX 216, 700 CELUM RD, C
LINT, TEXAS 79836.

GLC019 I 6 * * * HAZARDOUS ITEM BASIC PUBLICATION * * *

N S N	FSCM	MGR	F P IND	PN IND	PART NUMBER/TRADE NAME	ACT CD	DATE	PAGE NR
6840-00-687-7904	83421	75	G	A	DISINFEDCTANT,DETERGENT,GENERAL PURPOSE		84356	1

* * * * GENERAL INFORMATION * * * *

PROPRIETARY NO

MANUFACTURER
LIGHTHOUSE FOR THE BLIND I. SANGREE

EMERGENCY TELE NO
713-527-9561

ITEM NAME	UI	UI CONTAINER QTY	TYPE OF CONT	NET UNIT WT	MAG/MILGAUS	EXEMPTION NO
DISINFECTANT,GERMICIDAL & FUNGICIDAL	QT	1 QUART				

AEROSOL PROPELLANT

SPECIFICATION
O-D-1276

RADIOACTIVITY	FORM	TR GP	NRC LIC NUMBER	CHEMICAL NAME	CHEMICAL FAMILY	FORMULA
				TERPENE ALCOHOLS & T.O.F.	TERPENE ALCOHOLS & TALL F	

* * * * * HAZARDOUS COMPONENTS * * * * *

NIOSH NO	CHEMICAL NAME	PCT	T L V
1001366TA	TERPENE ALCOHOLS	48.0	UNKNOWN
1000382TO	TALL OIL FATT ACIDS	12.0	UNKNOWN
1001367AB	ANHYDROUS SODA SOAP	10.0	UNKNOWN

* * * * * * TRANSPORTATION DATA * * * * * *

DOT SHIPPING NAME: N/A

CLASS: LABEL: MODE: ID NO: RQ:

WATER SHIPPING NAME: N/A

CLASS: LABEL: UN NO: UN CLASS: COM GP: DOT: IMCO

TARIFF 6-D SHIPPING: N/A,REFER TO CFR 49

CLASS: LABEL:

IATA SHIPPING NAME: N/A

CLASS: LABEL: IATA ARTICLE NO:

AFR 71-4 SHIPPING NAME: N/A

CLASS: LABEL: MMAC:

* * * * * * ADDITIONAL DATA * * * * * *

ITEM NOT REGULATED FOR TRNSP.

J 6

NSN

ACT CD DATE PAGE NR

6840-00-687-7904 * * * * HEALTH AND PHYSICAL PROPERTY DATA * * * * 84356 2

BOILING POINT	VAP DEN/AIR=1/	SOL IN H2O	FLASH POINT	VAP PRESS/MM HG/70 F/	TLV-MIXTURE	STORAGE CODE
365F		100%	205F TCC 95C	760	100 PPM	L1

APPEARANCE AND ODOR
STRAW YELLOW,PINE ODOR

LEL/PCT/	UEL/PCT/	SP GR	PCT VOLT BY VOL	EVAP RATE PER REFERENCE
		0.955	77	GREATER THAN 1%

EFFECTS OF OVEREXPOSURE
CAUSE KIDNEY IRRITATION LOCAL IRRITANT-1,ALLERGEN-2, INHALATION-2,SKIN ABSORBTION-2,CRONIC SYSTEMIC1

NET PROP WT-AMMO NEW LB

STABLE
YES

CONDITIONS TO AVOID
NONE

MATERIALS TO AVOID
AVOID CONTACT WITH OXIDIZING MATERIALS

HAZ POLYMERIZATION OCCUR
NO

CONDITIONS TO AVOID

AUTO IGN TEMP VISCOSITY CG AMMO CD

HAZARDOUS DECOMPOSITION PRODUCTS

* * * * SAFETY STORAGE HANDLING AND FIRE FIGHTING PROCEDURES * * * *

EXTINGUISHING MEDIA
WATER,CO2,FOAM,DRY CHEMICALS.

SPECIAL FIRE FIGHTING PROCEDURES
NONE

UNUSUAL FIRE / EXPLOSION HAZARDS
NONE

PROTECTIVE GLOVES
CHEMICAL RESIST

EMERGENCY FIRST AID PROCEDURES
SKIN-WASH THOROUGHLY WITH WATER.EYES-WASH THOROUGHLY WITH WATER FOLLOWED BY A BORIC ACID WASH.DO NOT INDUCE VOMITING.DRINK 2 OR 3 GLASSES OF MILK,CONTACT A PHYSICIAN.

TYPE OF RESPIRATORY PROTECTION
AS NEEDED TO MAINTAIN LEVELS BELOW T.L.V.

VENTILATION
LOCAL EXHAUST RECOMMENDED

EYE PROTECTION
SAFETY GOGGLES RECOMMENDE

OTHER PROTECTIVE EQUIPMENT
AS CONDITIONS DICTATE

HANDLING / STORAGE PRECAUTIONS
P AWAY FROM FLAMES,USE ONLY WITH ADEQUATE VENTILATION
KEEP AWAY FROM EXTREME TEMPERATURE.KEE

* * * * SPILL AND LEAK PROCEDURES * * * *

SPILL AND LEAK CONTROL
ELIMINATE IGNITION SOURCE,STOP SPILL AT ONCE,CONTAIN SPILL BY DIKE ETC.,PUMP INTO SALVAGE TANK,WASH SPILL ON FLOOR WITH WATER
.

WASTE ELIMINATION
LIQUID INCINERATION.

OTHER PRECAUTIONS
AVOID CONTACT WITH OXIDIZING MATERIALS.

SUPPLEMENTAL DATA
PER SPEC: MINIMUM PH = 10.

SLC019 C15 * * * HAZARDOUS ITEM BASIC PUBLICATION * * *

N S N	FSCM	NCR	F P IND	PN IND	PART NUMBER/TRADE NAME	ACT CD	DATE	PAGE NR
7930-00-184-9423	33333		N	A	CONOVIEW GLASS CLEANER		85004	1

* * * * GENERAL INFORMATION * * * *

PROPRIETARY NO

MANUFACTURER: CONTINENTAL LABS INC.

EMERGENCY TELE NO: 404-449-7588

ITEM NAME	UI	UI CONTAINER QTY	TYPE OF CONT	NET UNIT WT	MAG/MILGAUS	EXEMPTION NO
GLASS CLEANER						

AEROSOL PROPELLANT

SPECIFICATION: P-C-406

RADIOACTIVITY	FORM	TR CD	NRC LIC NUMBER	CHEMICAL NAME	CHEMICAL FAMILY	FORMULA
			N/A			

* * * * * HAZARDOUS COMPONENTS * * * * *

NIOSH NO	CHEMICAL NAME	PCT	T L V
[illegible]	ISOPROPYL ALCOHOL	4	400 PPM
[illegible]	ETHYLENE GLYCOL N-BUTYL ETHER	2	5-25 PPM
[illegible]	AMMONIA	0.1	25 PPM

* * * * * * TRANSPORTATION DATA * * * * * *

DOT SHIPPING NAME: N/A

CLASS: LABEL: MODE: ID NO: RQ:

WATER SHIPPING NAME: N/A

CLASS: LABEL: UN NO: UN CLASS: CON GP: DOT: INCO

TARIFF 6-9 SHIPPING: N/A

CLASS: LABEL:

IATA SHIPPING NAME: N/A

CLASS: LABEL: IATA ARTICLE NO:

AFR 71-4 SHIPPING NAME: N/A

CLASS: LABEL: MMAC:

* * * * * * ADDITIONAL DATA * * * * * *

NOT REGULATED FOR SHIPPING.

GLC019 L 5

* * * HAZARDOUS ITEM BASIC PUBLICATION * * *

NSN	FSCM	MGR	F P IND	PN IND	PART NUMBER/TRADE NAME	ACT CD	DATE	PAGE NR
9150-00-186-6696	7A348	CX	D	A	DELTLUBE GR 50		84251	1

* * * GENERAL INFORMATION * * * *

PROPRIETARY NO

MANUFACTURER
DELTA PETROLEUM CO,INC.

EMERGENCY TELE NO
504-833-2861

ITEM NAME	UI	UI CONTAINER QTY	TYPE OF CONT	NET UNIT WT	MAG/MILGAUS	EXEMPTION NO
LUBRICATING OIL,ENGINE	DR	55 GAL				

AEROSOL PROPELLANT

SPECIFICATION
MIL-L-46152

RADIOACTIVITY	FORM	TR GP	NRC LIC NUMBER	CHEMICAL NAME	CHEMICAL FAMILY	FORMULA
				DELTLUBE GR 30	N/A (MIXTURE)	N/A(MIXTURE)

* * * * * HAZARDOUS COMPONENTS * * * * *

NIOSH NO	CHEMICAL NAME	PCT	T L V
1001857MM	NE/NC(BASE OIL/LUBRICATING OIL); TLV NOTED FOR OIL MIST	UNK	5 MG/CUM
1001831OC	ORGANOMETALLIC COMPOUNDS(TYPE NOT SPECIFIED)	UNK	UNKNOWN
1001854OC	ORGANIC COMPOUNDS(TYPE NOT SPECIFIED)	UNK	UNKNOWN
1001858EC	ECA 8984 (ADDITIVE)	7.4	UNKNOWN
1001985PF	PARAFLOW 149(ADDITIVE)	0.2	UNKNOWN

* * * * * * TRANSPORTATION DATA * * * * * *

DOT SHIPPING NAME: N/A

CLASS: LABEL: MODE: ID NO: RQ:

WATER SHIPPING NAME: N/A

CLASS: LABEL: UN NO: UN CLASS: CON GP: DOT: IMCO

TARIFF 6-D SHIPPING: N/A,REFER TO 49CFR

CLASS: LABEL:

IATA SHIPPING NAME: N/A

CLASS: LABEL: IATA ARTICLE NO:

AFR 71-4 SHIPPING NAME: N/A

CLASS: LABEL: MMAC:

* * * * * * ADDITIONAL DATA * * * * * *

ITEM NOT REGULATED FOR TRNSP.

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ACT CD DATE PAGE NR

9150-00-186-6696 * * * * HEALTH AND PHYSICAL PROPERTY DATA * * * * 84251 2

BOILING POINT	VAP DEN/AIR=1/	SOL IN H2O	FLASH POINT	VAP PRESS/MM HG/70 F/	TLV-MIXTURE	STORAGE CODE
500F/260C	>1.0	NEGLIGIBLE	401F/205C COC	<5	5 MG/CUM(MIST)	F6

APPEARANCE AND ODOR

LIQUID;MILD ODOR

LEL/PCT/	UEL/PCT/	SP GR	PCT VOLT BY VOL	EVAP RATE PER REFERENCE
N/A	N/A	0.882	NIL	NEGLIGIBLE

EFFECTS OF OVEREXPOSURE

NONE NOTED BY MFR. LOW TOXICITY & LOW HAZARD TO HEALTH.

NET PROP WT-AMMO NEW LB

STABLE

YES

CONDITIONS TO AVOID

DO NOT HEAT >140F TO AVOID HYDROGEN SULFIDE GAS.

MATERIALS TO AVOID

STRONG OXIDIZING AGENTS.

HAZ POLYMERIZATION OCCUR

NO

CONDITIONS TO AVOID

AUTO IGN TEMP VISCOSITY CG AMMO CD

HAZARDOUS DECOMPOSITION PRODUCTS

INCOMPLETELY BURNED CARBON PRODUCTS, CO-2, CO.

* * * * SAFETY STORAGE HANDLING AND FIRE FIGHTING PROCEDURES * * * *

EXTINGUISHING MEDIA

CO-2, FOAM, DRY CHEM & H-20 FOG,WATER SPRAY.

SPECIAL FIRE FIGHTING PROCEDURES

USE H-20 TO COOL EXPD CONTRS. USE SCBA & FULL PROT.CLTNG.

UNUSUAL FIRE / EXPLOSION HAZARDS

RESPIRATORY PROTECTION REQUIRED.

PROTECTIVE GLOVES

NEOPRENE/PLAST

EMERGENCY FIRST AID PROCEDURES

FLUSH EYES UNTIL IRRITATION SUBSIDES.

TYPE OF RESPIRATORY PROTECTION

NONE SHOULD BE NEEDED

VENTILATION

NO SPECIAL REQUIREMENTS W ADEQUATE VENT.

EYE PROTECTION

SAFETY GLASSES/FACE SHILD

OTHER PROTECTIVE EQUIPMENT

NORMAL WORK CLOTHING COVERING ARMS & LEGS.

HANDLING / STORAGE PRECAUTIONS

KEEP CONTAINERS CLOSED.AVOID IGNITION SOURCES.AVOID OXIDIZING AGENTS.

* * * * SPILL AND LEAK PROCEDURES * * * *

SPILL AND LEAK CONTROL

EVACUATE UNPROTECTED PERSONS. ELIM IGNITION SOURCES. STOP LEAK. H-20 SPRAY COOL CONT/DIVERT SPILL FROM FIRE/HEAT. PROVIDE VENTILATION. ABSORB W COMMERCIAL ABSORBENT,SHOVEL INTO METAL DRUMS;LG SPILL:DIKE W COMMERCIAL ABSORBENT,PUMP INTO COVERED DRUMS.

WASTE ELIMINATION

INCINERATE IN APPROVED INCINERATOR OR DISPOSE OF IN APPROVED CHEMICAL DUMP IN ACCORDANCE WITH LOCAL,STATE & FEDERAL REGULATIONS.

OTHER PRECAUTIONS

AVOID EYE & PROLONGED SKIN CONTACT.AVOID BREATHING OIL MIST.WASH THOROUGHLY AFTER HANDLING.

SUPPLEMENTAL DATA

SPEC REFERENCE:MIL-L-461528,GRADE 30;MSDS UNDATED.

GLC019 N S * * * HAZARDOUS ITEM BASIC PUBLICATION * * *

NSN	FSCM	MGR	F P IND	PN IND	PART NUMBER/TRADE NAME	ACT CD	DATE	PAGE NR
9150-00-186-6696	9V266	CX	D	A	AMOCO 300 MOTOR OILS		85144	1

* * * * GENERAL INFORMATION * * * *

PROPRIETARY NO

MANUFACTURER: AMOCO OIL COMPANY

EMERGENCY TELE NO: (312) 856-5371

ITEM NAME: LUBRICATING OIL,ENGINE

UI	UI CONTAINER QTY	TYPE OF CONT	NET UNIT WT	MAG/MILGAUS	EXEMPTION NO
DR	55 GAL				

AEROSOL PROPELLANT

SPECIFICATION: MIL-L-46152

RADIOACTIVITY	FORM	TR GP	NRC LIC NUMBER	CHEMICAL NAME	CHEMICAL FAMILY	FORMULA
				N/A (LUBE OIL)	N/A (MIXTURE)	N/A(MIXTURE)

* * * * * HAZARDOUS COMPONENTS * * * * *

MIXTURE NO	CHEMICAL NAME	PCT	T L V
10013446P0	PETROLEUM OILS	UNK	UNKNOWN
10000972A8	ADDITIVES	UNK	UNKNOWN

* * * * * * TRANSPORTATION DATA * * * * * *

DOT SHIPPING NAME: N/A

CLASS: LABEL: NODE: ID NO: RQ:

WATER SHIPPING NAME: N/A

CLASS: LABEL: UN NO: UN CLASS: COM CP: DOT: INCO

TARIFF 6-B SHIPPING:

CLASS: LABEL:

IATA SHIPPING NAME: N/A

CLASS: LABEL: IATA ARTICLE NO:

AFR 71-4 SHIPPING NAME: N/A

CLASS: LABEL: MMAC:

* * * * * * ADDITIONAL DATA * * * * * *

ITEM NOT REGULATED FOR TRANSPORTATION;SPEC REFERENCE: MIL-L-46152B,30 GRADE

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9150-00-186-6696

ACT CD DATE PAGE NR

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* * * * HEALTH AND PHYSICAL PROPERTY DATA * * * *

BOILING POINT	VAP DEN/AIR=1/	SOL IN H2O	FLASH POINT	VAP PRESS/MM HG/70 F/	TLV-MIXTURE	STORAGE CODE
N/A	N/A	NEGLIGIBLE	400-450F-COC	N/A	UNKNOWN	F6

APPEARANCE AND ODOR
PALE TO LIGHT RED COLORED OILY LIQUID

LEL/PCT/	UEL/PCT/	SP GR	PCT VOLT BY VOL	EVAP RATE PER REFERENCE
N/A	N/A	0.885	N/A	N/A

EFFECTS OF OVEREXPOSURE
EYES:MINIMALLY IRRITATING;SKIN:SLIGHTLY IRRITATING;INH:NONE;ING:PRACTICALLY NONTOXIC FOR ACUTE.

NET PROP WT-AMMO NEW LB

STABLE
YES

IGNITION SOURCES
NONE KNOWN

CONDITIONS TO AVOID

MATERIALS TO AVOID

MAY POLYMERIZATION OCCUR
NO

CONDITIONS TO AVOID
UNKNOWN

AUTO IGN TEMP VISCOSITY CG AMMO CD

HAZARDOUS DECOMPOSITION PRODUCTS
C, CO, CO+2, VARIOUS HYDROCARBONS & THEIR DERIVATIVES.

* * * * SAFETY STORAGE HANDLING AND FIRE FIGHTING PROCEDURES * * * *

EXTINGUISHING MEDIA
DRY CHEMICAL(B-C), CO+2, WATER FOG, FOAM

SPECIAL FIRE FIGHTING PROCEDURES
NONE KNOWN

UNUSUAL FIRE / EXPLOSION HAZARDS
NONE

PROTECTIVE GLOVES
IMPERVIOUS

EMERGENCY FIRST AID PROCEDURES
EYES:FLUSH W/PLENTY OF H+2;SKIN:NONE REQD FOR UNUSED OIL.CONTACT W/USED MOTOR OIL-WASH EXPOSED SKIN THOROUGHLY W/SOAP & WATER ;INGESTION:IF A LARGE AMT IS SWALLOWED,INDUCE VOMITING.GET MEDICAL ATTENTION.

TYPE OF RESPIRATORY PROTECTION
NONE SHOULD BE NEEDED

VENTILATION
GENERAL(MECH)/AREA

EYE PROTECTION
AS REQUIRED

OTHER PROTECTIVE EQUIPMENT
WEAR PROTCTV CLOTHING & IMPERVIOUS GLOVES.

HANDLING / STORAGE PRECAUTIONS
STORE IN COOL,DRY,WELL VENTILATED AREA . PROTECT FROM PHYSICAL DAMAGE.AVOID ANY PHYSICAL CONTACT. KEEP CONTAINERS TIGHTLY CLOSED

* * * * SPILL AND LEAK PROCEDURES * * * *

SPILL AND LEAK CONTROL
ELIMINATE IGN SOURCES.STOP LEAK W/O RISK.USE PROTECTIVE EQUIP SUCH AS GLOVES & SAFETY GLASS DURING CLEANUP SPILL;SM SPILL:ABS ORB W/COMMERCIAL ABSORBENT & CONTAIN IN COVERED DRUM;LG SPILL:DIKE LIQ.PUMP INTO SALVAGE TANK.SHOVEL RESIDUE INTO COVERD DRUM

WASTE ELIMINATION
INCINERATE IN APPROVED INCINERATOR OR DISPOSE OF IN APPROVED CHEMICAL DUMP IN ACCORDANCE WITH LOCAL,STATE & FEDERAL REGULATIONS.

OTHER PRECAUTIONS
CAUTION:CONTINUOUS LONG TERM CONTCT W/USED OIL HAS CAUSED CANCER IN ANIMAL TESTS;USE WATERLESS HAND CLEANER TO REMOVE USED OIL FROM SKIN.USE PROTCTV CLOTHING & GLOVES WHEN WORKING W/USED OILS.

SUPPLEMENTAL DATA
NSDS DTD NOV 1982 COVERS:SAE 10W;20-20W;30+40+ & 15W-40 GRADE OIL; THIS NSN FOR MIL-L-46152B, 30 GRADE.

GCLQ1S J 2 • • • HAZARDOUS ITEM QUARTERLY CHANGES • • •

NSN	FSCM	MGR	F P IND	PN IND	PART NUMBER/TRADE NAME	ACT CD	DATE	PAGE NR
9150-00-823-7860	09800		D	A	W-6424-S		80170	1

• • • • GENERAL INFORMATION • • • •

PROPRIETARY NO

MANUFACTURER: SPRAY-ON PRODUCTS, ANAHEIM, CA

EMERGENCY TELE NO: 714-630-1400

ITEM NAME: LUBRICATING COMPOUND, SILICONE

UI	UI CONTAINER QTY	TYPE OF CONT	NET UNIT WT	MAG/MILGAUS	EXEMPTION NO
CN	16 OZ	AEROSOL			

AEROSOL PROPELLANT: ISOBUTANE/PROPANE MIXTURE

SPECIFICATION

RADIOACTIVITY	FORM	TR GP	NRC LIC NUMBER	CHEMICAL NAME	CHEMICAL FAMILY	FORMULA
				SILICONE LUBRICANT	LUBRICATING CMPD	

• • • • • HAZARDOUS COMPONENTS • • • • •

NIOSH NO	CHEMICAL NAME	PCT	T L V
10002571P	ISOBUTANE/PROPANE MIXTURE	49.3	800PPM
KJ2975000	1,1,1-TRICHLOROETHANE, CHLOROETHANE	23.7	350PPM
KJ4000000	TRICHLOROTRIFLUOROETHANE	20.0	1000PPM
VW1620000	SILICONE, VISCASIL	7.0	UNKNOWN

• • • • • • TRANSPORTATION DATA • • • • • •

DOT SHIPPING NAME: COMPRESSED GAS, N.O.S.(ISOBUTANE/PROPANE)

CLASS: FLAMMABLE GAS LABEL: NONE-LTD QTY MODE: N/A ID NO: RQ:

WATER SHIPPING NAME: COMPRESSED GASSES, N.O.S.(ISOBUTANE/PROPANE)

CLASS: FLAMMABLE GAS LABEL: FLAMMABLE GAS UN NO: 1954 UN CLASS: 2.1 COM GP: DOT: YES IMCO YES

TARIFF 6-D SHIPPING: N/A

CLASS: LABEL:

IATA SHIPPING NAME: COMPRESSED GASES, FLAMMABLE, N.O.S.(ISOBUTANE/PROPANE)

CLASS: FLAMMABLE GAS LABEL: FLAMMABLE GAS IATA ARTICLE NO: 509

AFR 71-4 SHIPPING NAME: COMPRESSED GAS, N.O.S.

CLASS: FLAMMABLE GAS LABEL: FLAMMABLE GAS NMAC:

• • • • • • ADDITIONAL DATA • • • • • •

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NSN

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80323 2

• • • • HEALTH AND PHYSICAL PROPERTY DATA • • • •

BOILING POINT
N/A

VAP DEN/AIR=1/
>1

SOL IN H2O

FLASH POINT
N/A

VAP PRESS/MM HG/70 F/

TLV-MIXTURE
SEE COMP SECT

STORAGE CODE
L5

APPEARANCE AND ODOR
COMPRESSED GAS IN AEROSOL CAN

LEL/PCT/ UEL/PCT/ SP GR

PCT VOLT BY VOL
93

EVAP RATE PER REFERENCE

EFFECTS OF OVEREXPOSURE
POSS DIZZ OR NAUSEA

NET PROP WT-AMMO NET EXP WT

STABLE
YES

CONDITIONS TO AVOID
DO NOT STORE ABOVE 120F

MATERIALS TO AVOID
NONE SPECIFIED

HAZ POLYMERIZATION OCCUR
NO

CONDITIONS TO AVOID

AUTO IGN TEMP VISCOSITY CG AMMO CD

HAZARDOUS DECOMPOSITION PRODUCTS
CARBON MONOXIDE, CARBON DIOXIDE, HYDROGEN CHLORIDE

• • • • SAFETY STORAGE HANDLING AND FIRE FIGHTING PROCEDURES • • • •

EXTINGUISHING MEDIA
CARBON DIOXIDE, DRY CHEM OR FOAM

SPECIAL FIRE FIGHTING PROCEDURES
WATER MAY BE INEFFECTIVE, USE ONLY TO COOL CNTNRS

UNUSUAL FIRE / EXPLOSION HAZARDS
DO NOT SPRAY NEAR FLAME. KEEP AT ROOM TEMP. EXPOSURE TO HEAT OR DIRECT SUNLIGHT MAY CAUSE BURST.

PROTECTIVE GLOVES
NONE SPECIFIED

EMERGENCY FIRST AID PROCEDURES
REMOVE TO FRESH AIR, CALL MD. IF SPRAYED IN EYE, FLUSH THOROUGHLY W/WATER. CALL MD.

TYPE OF RESPIRATORY PROTECTION
AS NECESSARY TO AVOID BRTHNG VAPOR OR SPRAY MIST

VENTILATION
LOCAL REC TO KEEP BELOW TLV & EXPLOSIVE LIMITS

EYE PROTECTION
NONE SPECIFIED

OTHER PROTECTIVE EQUIPMENT
NONE SPECIFIED

HANDLING / STORAGE PRECAUTIONS
DO NOT STORE ABOVE 120F. KEEP AT ROOM TEMP AS EXPOSURE TO DIRECT SUNLIGHT OR HEAT MAY CAUSE BURSTING.

• • • • SPILL AND LEAK PROCEDURES • • • •

SPILL AND LEAK CONTROL
REMOVE ALL IGNITION SOURCES, VENTILATE. AVOID BRTHNG VAPORS. REMOVE W/INERT ABSORBENT.

WASTE ELIMINATION
DO NOT INCINERATE. DISPOSE OF IAW FED, STATE, LOCAL REG.

OTHER PRECAUTIONS
DO NOT PUNCTURE OR INCINERATE. DO NOT SPRAY NEAR FIRE OR OPEN FL
AME. KEEP AWAY FROM CHILDREN

SUPPLEMENTAL DATA

GCLO15 L 2 • • • HAZARDOUS ITEM QUARTERLY CHANGES • • •

NSN	FSCM	MGR	F P IND	PN IND	PART NUMBER/TRADE NAME	ACT CD	DATE	PAGE NR
9150-00-823-7860	33333	CX	D	A	LUBRICATING COMPOUND,DIMETHYLSILICONE		83259	1

• • • • GENERAL INFORMATION • • • •

PROPRIETARY NO

MANUFACTURER: W.M.BARR & CO.

EMERGENCY TELE NO: 901-775-0100

ITEM NAME	UI	UI CONTAINER QTY	TYPE OF CONT	NET UNIT WT	MAG/MILGAUS	EXEMPTION NO
LUBRICATING COMPOUND,SILICONE	CN	16 OZS	AEROSOL			

AEROSOL PROPELLANT

HYDROCARBON PROPELLANT(50 % ISOBUTANE-50% PROPANE)

SPECIFICATION

RADIOACTIVITY	FORM	TR GP	NRC LIC NUMBER	CHEMICAL NAME	CHEMICAL FAMILY	FORMULA

• • • • • HAZARDOUS COMPONENTS • • • • •

NIOSH NO	CHEMICAL NAME	PCT	T L V
KJ2975000	1,1,1-TRICHLOROETHANE	36.5	350 PPM
KJ4000000	TRICHLOROTRIFLUOROETHANE	36.5	1000 PPM
VN1620000	SILICONE FLUID	7.0	N/A
1000055HP	HYDROCARBON PROPELLANT(50 % ISOBUTANE-50 % PROPANE.	20.0	N/A

• • • • • • TRANSPORTATION DATA • • • • • •

DOT SHIPPING NAME: COMPRESSED GAS,N.O.S.

CLASS: FLAMMABLE GAS LABEL: NONE-LTD QTY MODE: ID NO: UN1954 RQ:

WATER SHIPPING NAME: AEROSOL PRODUCT

CLASS: FLAMMABLE GAS LABEL: FLAMMABLE GAS UN NO: 1950 UN CLASS: 2.1 COM GP: DOT: YES IMCO YES

TARIFF 6-D SHIPPING: N/A,REFER TO 49 CFR

CLASS: LABEL:

IATA SHIPPING NAME: AEROSOLS,FLAMMABLE,N.O.S/1,1,1-TRICHLOROETHANE,SILICONE FLUID

CLASS: FLAMMABLE GAS LABEL: FLAMMABLE GAS IATA ARTICLE NO: 1950

AFR 71-4 SHIPPING NAME: COMPRESSED GAS,N.O.S.

CLASS: FLAMMABLE GAS LABEL: FLAMMABLE GAS MMAC:

• • • • • • ADDITIONAL DATA • • • • • •

IATA HAS A SUBSIDIARY RISK OF FLAMMABLE LIQUID(HAZARD)

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9150-00-823-7860

ACT CD DATE 83259 PAGE NR 2

• • • • HEALTH AND PHYSICAL PROPERTY DATA • • • •

BOILING POINT -16.4F

VAP DEN/AIR=1/ >1.0

SOL IN H2O ----------

FLASH POINT -16.4F(PROPELL)

VAP PRESS/MM HG/70 F/ ---

TLV-MIXTURE SEE HAZ INGREDS

STORAGE CODE L5

APPEARANCE AND ODOR
GAS,ODORLESS

LEL/PCT/ UNK

UEL/PCT/ UNK

SP GR

PCT VOLT BY VOL 93.0

EVAP RATE PER REFERENCE <1.0,ETHER

EFFECTS OF OVEREXPOSURE
LIGHT HEADEDNESS,DIZZY,GIDDINESS,SHORTNESS OF BREATH,POSS CARDIAC ARRHYTHMIAS AT HIGH CONES;NARCOS

NET PROP WT-AMMO

NET EXP WT

STABLE
YES

CONDITIONS TO AVOID
HIGH TEMPERATURES,IGNITION SOURCES

MATERIALS TO AVOID
ALKALI,ALKALINE EARTH METALS,POWDERED ALUMINUM,BE,LI.

HAZ POLYMERIZATION OCCUR
NO

CONDITIONS TO AVOID

AUTO IGN TEMP

VISCOSITY

CG AMMO CD

HAZARDOUS DECOMPOSITION PRODUCTS
HCL,HF ACIDS,POSSIBLE PHOSGENE

• • • • SAFETY STORAGE HANDLING AND FIRE FIGHTING PROCEDURES • • • •

EXTINGUISHING MEDIA
CO-2,DRY CHEMICAL,MIST,OR WATER SPRAY.

SPECIAL FIRE FIGHTING PROCEDURES
SCBA PROVIDED;AEROSOL CANS CAN EXPLODE IN HEAT OF FIRE.

UNUSUAL FIRE / EXPLOSION HAZARDS
MATL MAY/MAY NOT BURN. CONTAINER MAY EXPLODE IN HEAT OF FIRE.FIRE MAY YIELD TOXIC GASES.

PROTECTIVE GLOVES
RUBBER

EMERGENCY FIRST AID PROCEDURES
INHALATION:REMOVE TO FRESH AIR,CALL DOCTOR.DO NOT GIVE EPINEHRINE OR SIMILAR DRUGS.SKIN OR EYE CONTACT:FLUSH WITH WATER,CALL A DOCTOR.IF SWALLOWED;CONTACT HOSPITAL EMERGENCY ROOM,DOCTOR,OR POISON CONTROL CENTER FOR INSTRUCTIONS.

TYPE OF RESPIRATORY PROTECTION
AIR SUPPLIED RESPIR

VENTILATION
MECHANICAL (GENERAL/LOCAL EXHAUST)

EYE PROTECTION
SAFETY GLASSES

OTHER PROTECTIVE EQUIPMENT
NONE

HANDLING / STORAGE PRECAUTIONS
STORE IN COOL,DRY,WELL VENT,LOW FIRE R ISK AREA. PROTECT FROM PHYSICAL DAMAGE.AVOID ANY PHYSICAL CONTACT. KEEP CONTAINERS TIGHTLY CLOSED.

• • • • SPILL AND LEAK PROCEDURES • • • •

SPILL AND LEAK CONTROL
VENTILATE AREA,ESPECIALLY LOW PLACES WHERE HEAVY VAPORS MAY COLLECT.AVOID BREATHING VAPORS

WASTE ELIMINATION
KEEP IN COVERED DRUMS,PENDING DISPOSAL. HANDLE & DISPOSE IN FULL COMPLIANCE WITH ALL APPLICABLE INTERNATIONAL,FEDERAL,STATE, & LOCAL REGULATIONS.

OTHER PRECAUTIONS

DO NOT HEAT ABOVE 120F WARNING:CONTENTS UNDER PRESSURE.CONTAINS 1,1,1-TRICHLOROETHANE.DO NOT SPRAY IN FACE OR EYES.AVOID BRTHG O F VAPORS.DIRECT EXPOSURE TO FLAMES MAY CAUSE FORM OF TOXIC VAPOR

SUPPLEMENTAL DATA

GCL015 N 2 * * * HAZARDOUS ITEM QUARTERLY CHANGES * * *

NSN	FSCM	MGR	F P IND	PN IND	PART NUMBER/TRADE NAME	ACT CD	DATE	PAGE NR
9150-00-823-7860	4N258		D	A	SILICONE LUBRICATING CMPD		80325	1

* * * * GENERAL INFORMATION * * * *

PROPRIETARY NO

MANUFACTURER: AEROSOL WEST, INC

EMERGENCY TELE NO:

ITEM NAME: LUBRICATING CMPD, SILICONE

UI	UI CONTAINER QTY	TYPE OF CONT	NET UNIT WT	MAG/MILGAUS	EXEMPTION NO
CN	16 OZ	AEROSOL			

ISOBUTANE/PROPANE MIXTURE — AEROSOL PROPELLANT

SPECIFICATION:

RADIOACTIVITY	FORM	TR CP	NRC LIC NUMBER	CHEMICAL NAME	CHEMICAL FAMILY	FORMULA

* * * * * HAZARDOUS COMPONENTS * * * * *

NIOSH NO	CHEMICAL NAME	PCT	T L V
1000257IP	ISOBUTANE/PROPANE MIXTURE	12	
VV1620000	SILICONES	88	

* * * * * * TRANSPORTATION DATA * * * * * *

DOT SHIPPING NAME: CONSUMER COMMODITY

CLASS: ORM-D LABEL: NONE MODE: ID NO: RQ:

WATER SHIPPING NAME: COMPRESSED GASES, NOS

CLASS: NON FLAMMABLE GAS LABEL: NON FLAMMABLE GAS UN NO: 1956 UN CLASS: 2.1 COM CP: DOT: YES IMCO YES

TARIFF 6-D SHIPPING: N/A, SEE 49CFR

CLASS: LABEL:

IATA SHIPPING NAME: COMPRESSED GASES, NON FLAMMABLE, NOS

CLASS: NON FLAMMABLE GAS LABEL: NON FLAMMABLE GAS IATA ARTICLE NO: 510

AFR 71-4 SHIPPING NAME: COMPRESSED GAS, NOS

CLASS: NON FLAMMABLE GAS LABEL: NON FLAMMABLE GAS RMAC:

* * * * * * ADDITIONAL DATA * * * * * *

MFR SPECIFIED THAT ITEM IS NON FLAMMABLE GAS, FLAME PROPAGATION LESS THAN 18 IN.

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ACT CD DATE PAGE NR

80325 2

• • • • HEALTH AND PHYSICAL PROPERTY DATA • • • •

BOILING POINT VAP DEN/AIR=1/. SOL IN H20 FLASH POINT VAP PRESS/MM HG/70 F/ TLV-MIXTURE STORAGE CODE

L6

APPEARANCE AND ODOR LEL/PCT/ UEL/PCT/ SP GR PCT VOLT BY VOL EVAP RATE PER REFERENCE

EFFECTS OF OVEREXPOSURE

NET PROP WT-AMMO NET EXP WT

STABLE CONDITIONS TO AVOID

MATERIALS TO AVOID

MAZ POLYMERIZATION OCCUR CONDITIONS TO AVOID AUTO IGN TEMP VISCOSITY CG AMMO CD

HAZARDOUS DECOMPOSITION PRODUCTS

• • • • SAFETY STORAGE HANDLING AND FIRE FIGHTING PROCEDURES • • • •

EXTINGUISHING MEDIA SPECIAL FIRE FIGHTING PROCEDURES

UNUSUAL FIRE / EXPLOSION HAZARDS PROTECTIVE GLOVES

EMERGENCY FIRST AID PROCEDURES

TYPE OF RESPIR: RY PROTECTION VENTILATION

EYE PROTECTION OTHER PROTECTIVE EQUIPMENT HANDLING / STORAGE PRECAUTIONS

• • • • SPILL AND LEAK PROCEDURES • • • •

SPILL AND LEAK CONTROL

WASTE ELIMINATION

OTHER PRECAUTIONS SUPPLEMENTAL DATA

PAGE NR
2
ORAGE CODE
81
ERENCE
NET EXP WT
CG AMMO CD
TIONS

6CL015 A 3 * * * HAZARDOUS ITEM QUARTERLY CHANGES * * *

NSN	FSCM	MGR	F P IND	PN IND	PART NUMBER/TRADE NAME	ACT CD	DATE	PAGE
9150-00-323-7860	56921		D	B	SLYDE		81205	

* * * * GENERAL INFORMATION * * * *

PROPRIETARY NO	MANUFACTURER	EMERGENCY TELE NO
	BULK CHEMICALS	

ITEM NAME	UI CN	UI CONTAINER QTY	TYPE OF CONT	NET UNIT WT	MAG/MILGAUS	EXEMPTIO
LUBRICATING COMPOUND,SILICONE		16 OZ	AEROSOL			

ISOBUTANE/PROPANE MIXTURE — AEROSOL PROPELLANT — SPECIFICATION

RADICACTIVITY	FORM	TR GP	NRC LIC NUMBER	CHEMICAL NAME	CHEMICAL FAMILY	FORMULA

* * * * * HAZARDOUS COMPONENTS * * * * *

NIOSH NO	CHEMICAL NAME	PCT	T L V
10002571P	ISOBUTANE/PROPANE MIXTURE	21	
KJ4000000	TRICHLOROTRIFLUOROETHANE		
KJ2975000	1,1,1-TRICHLOROETHANE	7.5	
VW1620000	SILICONE		

* * * * * * TRANSPORTATION DATA * * * * * *

DOT SHIPPING NAME: CONSUMER COMMODITY
CLASS: ORM-D LABEL: NONE MODE: ID NO: RQ:
WATER SHIPPING NAME: COMPRESSED GASES, N.O.S.(TRICHLOROTRIFLUOROETHANE,ISOBUTANE/PROPANE MIXTURE)
CLASS: NON FLAMMABLE GAS LABEL: NON FLAMMABLE GAS UN NO: 1956 UN CLASS: 2.2 COM GP: DOT: YES IMCO
TARIFF 6-D SHIPPING: N/A-REFER TO 49CFR
CLASS: LABEL: —
IATA SHIPPING NAME: AEROSOL,NON FLAMMABLE,N.O.S. (TRICHLOROTRIFLUOROETHANE,ISOBUTANE/PROPANE MIXTURE)
CLASS: LABEL: IATA ARTICLE NO: 2166
AFR 71-4 SHIPPING NAME: COMPRESSED GAS N.O.S.(TRICHLOROTRIFLUOROETHANE,ISOBUTANE/PROPANE MIXTURE)
CLASS: NON FLAMMABLE GAS LABEL: NON FLAMMABLE GAS NMAC:

* * * * * * ADDITIONAL DATA * * * * * *

MFR SPECIFIED THAT FLAME PROPAGATION IS LESS THAN 18 IN AND THAT ITEM IS CLASSED AS A NON FLAMMABLE GAS.THIS INFO APPLIES FOR I
S MADE AFTER 1 JAN 81.

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1

PTION NO

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A

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MCO YES

B 3

N S N

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ACT CD DATE PAGE N
81205

* * * * HEALTH AND PHYSICAL PROPERTY DATA * * * *

BOILING POINT VAP DEN/AIR=1/ SOL IN H2O FLASH POINT VAP PRESS/MM HG/70 F/ TLV-MIXTURE STORAGE C
L6

APPEARANCE AND ODOR LEL/PCT/ UEL/PCT/ SP GR PCT VOLT BY VOL EVAP RATE PER REFERENCE

EFFECTS OF OVEREXPOSURE

NET PROP WT-AMMO NET EXP

STABLE CONDITIONS TO AVOID

MATERIALS TO AVOID

HAZ POLYMERIZATION OCCUR CONDITIONS TO AVOID

AUTO IGN TEMP VISCOSITY CG AMMO

HAZARDOUS DECOMPOSITION PRODUCTS

* * * * SAFETY STORAGE HANDLING AND FIRE FIGHTING PROCEDURES * * * *

EXTINGUISHING MEDIA

SPECIAL FIRE FIGHTING PROCEDURES

UNUSUAL FIRE & EXPLOSION HAZARDS

PROTECTIVE GLOVES

EMERGENCY FIRST AID PROCEDURES

TYPE OF RESPIRATORY PROTECTION

VENTILATION

EYE PROTECTION

OTHER PROTECTIVE EQUIPMENT

HANDLING / STORAGE PRECAUTIONS

* * * * SPILL AND LEAK PROCEDURES * * * *

SPILL AND LEAK CONTROL

WASTE ELIMINATION

OTHER PRECAUTIONS

SUPPLEMENTAL DATA

THIS DATA IS FOR ITEMS MADE AFTER 1 JAN 81

GCLQ1S C 3 • • • HAZARDOUS ITEM QUARTERLY CHANGES • • •

NSN	FSCM	MGR	F P IND	PN IND	PART NUMBER/TRADE NAME	ACT CD	DATE	PAGE NR
9150-00-823-7860	81348		D	A	SILICONE 4X		82096	1

• • • • GENERAL INFORMATION • • • •

PROPRIETARY NO | MANUFACTURER BOUGHT ACCORDING TO SPECIFICATION | EMERGENCY TELE NO

ITEM NAME

LUBRICATING COMPOUND, SILICONE 4X

UI	UI CONTAINER QTY	TYPE OF CONT	NET UNIT WT	MAG/MILGAUS	EXEMPTION
CN	16 OZ				

AEROSOL PROPELLANT

SPECIFICATION

RADIOACTIVITY	FORM	TR GP	NRC LIC NUMBER	CHEMICAL NAME	CHEMICAL FAMILY	FORMULA

• • • • • HAZARDOUS COMPONENTS • • • • •

NIOSH NO	CHEMICAL NAME	PCT	T L V
1000137SC	SILICONE COMPOUND (SILICONE 4X)		

• • • • • • TRANSPORTATION DATA • • • • • •

DOT SHIPPING NAME: COMPRESSED GAS, N.O.S.

CLASS: NON FLAMMABLE GAS LABEL: NONE-LTD QTY MODE: ID NO: •UN1956 RG:

WATER SHIPPING NAME: COMPRESSED OR LIQUEFIED GASES, NON-FLAMMABLE, NON-TOXIC, N.O.S./LUBRICATING COMPD, SILICONE 4X.

CLASS: NON FLAMMABLE GAS LABEL: NON FLAMMABLE GAS UN NO: 1956 UN CLASS: 2.2 COM GP: DOT: YES IMCO YE

TARIFF 6-D SHIPPING: N/A

CLASS: LABEL:

IATA SHIPPING NAME: COMPRESSED GASES, NON-FLAMMABLE, N.O.S.

CLASS: NON FLAMMABLE GAS LABEL: NON FLAMMABLE GAS IATA ARTICLE NO: 510

AFR 71-4 SHIPPING NAME: COMPRESSED GAS, N.O.S.

CLASS: NON FLAMMABLE GAS LABEL: NON FLAMMABLE GAS MMAC:

• • • • • • ADDITIONAL DATA • • • • • •

D 3

N S N

9150-00-823-7860

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79339 2

• • • • HEALTH AND PHYSICAL PROPERTY DATA • • • •

BOILING POINT VAP DEN/AIR=1/ SOL IN H2O FLASH POINT VAP PRESS/MM HG/70 F/ TLV-MIXTURE STORAGE COD

N/A L6

APPEARANCE AND ODOR LEL/PCT/ UEL/PCT/ SP GR PCT VOLT BY VOL EVAP RATE PER REFERENCE

EFFECTS OF OVEREXPOSURE

NET PROP WT-AMMO NET EXP W

STABLE CONDITIONS TO AVOID MATERIALS TO AVOID

HAZ POLYMERIZATION OCCUR CONDITIONS TO AVOID AUTO IGN TEMP VISCOSITY CG AMMO CL

HAZARDOUS DECOMPOSITION PRODUCTS

• • • • SAFETY STORAGE HANDLING AND FIRE FIGHTING PROCEDURES • • • •

EXTINGUISHING MEDIA SPECIAL FIRE FIGHTING PROCEDURES

UNUSUAL FIRE / EXPLOSION HAZARDS PROTECTIVE GLOVES

EMERGENCY FIRST AID PROCEDURES

TYPE OF RESPIRATORY PROTECTION VENTILATION

EYE PROTECTION OTHER PROTECTIVE EQUIPMENT HANDLING / STORAGE PRECAUTIONS

• • • • SPILL AND LEAK PROCEDURES • • • •

SPILL AND LEAK CONTROL

WASTE ELIMINATION

OTHER PRECAUTIONS SUPPLEMENTAL DATA

GCLQ15 E 3 * * * HAZARDOUS ITEM QUARTERLY CHANGES * * *

NSN	FSCM	MGR	F P IND	PN IND	PART NUMBER/TRADE NAME	ACT CD	DATE	PAGE NR
9150-00-823-7860	91522	CX	D	A	LUBRICATING COMPOUND,DIMETHYLSILICONE		83259	1

* * * * GENERAL INFORMATION * * * *

PROPRIETARY NO

MANUFACTURER: W.M.BARR & CO.

EMERGENCY TELE NO: 901-775-0100

ITEM NAME: LUBRICATING COMPOUND,SILICONE

UI	UI CONTAINER QTY	TYPE OF CONT	NET UNIT WT	MAG/MILGAUS	EXEMPTION NO
CN	16 OZS	AEROSOL			

AEROSOL PROPELLANT: HYDROCARBON PROPELLANT(50 % ISOBUTANE-50 % PROPANE)

SPECIFICATION

RADIOACTIVITY	FORM	TR GP	NRC LIC NUMBER	CHEMICAL NAME	CHEMICAL FAMILY	FORMULA

* * * * * HAZARDOUS COMPONENTS * * * * *

NIOSH NO	CHEMICAL NAME	PCT	T L V
KJ2975000	1,1,1-TRICHLOROETHANE	36.5	350 PPM
KJ4000000	TRICHLOROTRIFLUOROETHANE	36.5	1000 PPM
VN1620000	SILICONE FLUID	7.0.	N/A
1000055MP	HYDROCARBON PROPELLANT(50% ISOBUTANE-50% PREPANE.	20.0	N/A

* * * * * * TRANSPORTATION DATA * * * * * *

DOT SHIPPING NAME: COMPRESSED GAS,N.O.S.

CLASS: FLAMMABLE GAS LABEL: NONE-LTD QTY MODE: ID NO: UN1954 RQ:

WATER SHIPPING NAME: AEROSOL PRODUCT

CLASS: FLAMMABLE GAS LABEL: FLAMMABLE GAS UN NO: 1950 UN CLASS: 2.1 COM GP: DOT: YES IMCO YES

TARIFF 6-D SHIPPING: N/A,REFER TO 49 CFR

CLASS: LABEL:

IATA SHIPPING NAME: AEROSOLS,FLAMMABLE,N.O.S./1,1,1-TRICHLOROETHANE,SILICONE FLUID

CLASS: FLAMMABLE GAS LABEL: FLAMMABLE GAS IATA ARTICLE NO: 1950

AFR 71-4 SHIPPING NAME: COMPRESSED GAS,N.O.S.

CLASS: FLAMMABLE GAS LABEL: FLAMMABLE GAS MMAC:

* * * * * * ADDITIONAL DATA * * * * * *

IATA HAS A SUBSIDIARY RISK OF FLAMMABLE LIQUID(HAZARD)

F 3

N S N

9150-00-823-7860

ACT CD DATE PAGE NR

83259 2

• • • • HEALTH AND PHYSICAL PROPERTY DATA • • • •

BOILING POINT	VAP DEN/AIR=1/	SOL IN H2O	FLASH POINT	VAP PRESS/MM HG/70 F/	ILV-MIXTURE	STORAGE CODE
-16.4F	>1.0	---	-16.4F(PROPELL).	---	SEE HAZ.INGREDS	LS

APPEARANCE AND ODOR

GAS,ODORLESS

LEL/PCT/	UEL/PCT/	SP GR	PCT VOLT BY VOL	EVAP RATE PER REFERENCE
UNK.	UNK.		93.0	<1.0,ETHER

EFFECTS OF OVEREXPOSURE

LIGHT HEADEDNESS,DIZZY,GIDDINESS,SHORTNESS OF BREATH,POSS.CARDIAC ARHYTHMIAS AT HIGH CONES;NARCOS.

NET PROP WT-AMMO NET EXP WT

STABLE
YES

CONDITIONS TO AVOID

HIGH TEMPERATURES,IGNITION SOURCES

MATERIALS TO AVOID

ALKALI,ALKALINE EARTH METALS,POWDERED ALUMINUM,BE,LI.

HAZ POLYMERIZATION OCCUR
NO

CONDITIONS TO AVOID

AUTO IGN TEMP VISCOSITY CG AMMO CD

HAZARDOUS DECOMPOSITION PRODUCTS

HCL,HF ACIDS,POSSIBLE PHOSGONE

• • • • SAFETY STORAGE HANDLING AND FIRE FIGHTING PROCEDURES • • • •

EXTINGUISHING MEDIA

CO-2,DRY CHEMICAL,MIST,OR WATER SPRAY.

SPECIAL FIRE FIGHTING PROCEDURES

SCBA PROVIDED;AEROSOL CANS CAN EXPLODE IN HEAT OF FIRE.

UNUSUAL FIRE / EXPLOSION HAZARDS

MATL MAY/MAY NOT BURN. CONTAINER MAY EXPLODE IN HEAT OF FIRE.FIRE MAY YIELD TOXIC GASES.

PROTECTIVE GLOVES
RUBBER

EMERGENCY FIRST AID PROCEDURES

INHALATION:REMOVE TO FRESH AIR,CALL DOC. DO NOT GIVE EPINEPHRINE OR SIMILAR DRUGS.SKIN OR EYE CONTACT:FLUSH WITH WATER,CALL A DOC. IF SWALLOWED;CONTACT HOSPITAL EMERGENCY ROOM,DOCTOR,OR POISON CONTROL CENTER FOR INSTRUCTIONS.

TYPE OF RESPIRATORY PROTECTION

AIR SUPPLIED RESPIR

VENTILATION

MECHANICAL (GENERAL/LOCAL EXHAUST)

EYE PROTECTION

SAFETY GLASSES

OTHER PROTECTIVE EQUIPMENT

NONE

HANDLING / STORAGE PRECAUTIONS

STORE IN COOL,DRY,WELL VENT,LOW FIRE RISK AREA. PROTECT FROM PHYSICAL DAMAGE.AVOID ANY PHYSICAL CONTACT. KEEP CONTAINERS TIGHTLY CLOSED.

• • • • SPILL AND LEAK PROCEDURES • • • •

SPILL AND LEAK CONTROL

VENTILATE AREA,ESPECIALLY LOW PLACES WHERE HEAVY VAPORS MAY COLLECT.AVOID BREATHING VAPORS

WASTE ELIMINATION

KEEP IN COVERED DRUMS,PENDING DISPOSAL. HANDLE & DISPOSE IN FULL COMPLIANCE WITH ALL APPLICABLE INTERNATIONAL,FEDERAL,STATE, & LOCAL REGULATIONS.

OTHER PRECAUTIONS

SUPPLEMENTAL DATA

DO NOT HEAT ABOVE 120F.WARNING:CONTENTS UNDER PRESSURE.CONTAINS 1,1,1-TRICHLOROETHANE.DO NOT SPRAY IN FACE OR EYES.AVOID BRTHG OF VAPORS.DIRECT EXPOSURE TO FLAMES MAY CAUSE FORM OF TOXIC VAPOR

☐ CONTRACT NO. GS07F19603

☑ CONTRACT NO. GS07F19605

Material Safety Data Sheet

May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910.1200. Standard must be consulted for specific requirements.

U.S. Department of Labor
Occupational Safety and Health Administration
(Non-Mandatory Form)
Form Approved
OMB No. 1218-0072

IDENTITY *(As Used on Label and List)*
ABC DRY CHEMICAL

Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.

Section I

Manufacturer's Name BUCKEYE FIRE EQUIPMENT COMPANY	Emergency Telephone Number (704) 739-7415
Address *(Number, Street, City, State, and ZIP Code)* 102 Industrial Drive	Telephone Number for Information (704) 739-7415
Kings Mountain, NC 28086	Date Prepared 3/20/89
	Signature of Preparer *(optional)*

Section II — Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity; Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	% *(optional)*
Muscovite Mica	N/A	20mppcf*		
CAS NO. 1318-94-1				

THIS MATERIAL SAFETY DATA SHEET COVERS SPEC. A-A-393, TYPE I, CLASS I, FIRE EXTINGUISHERS.

NSN: 4210-00-165-4703 --BUCKEYE M5-HI SA ABC or M5 ABC II 100D-ITEM 6A and 6B

NSN: 4210-00-889-2491 --BUCKEYE M10-HI SA ABC --ITEM 7A and 7B

NSN: 4210-00-889-2492 --BUCKEYE M20-HI ABC -- ITEM 8A and 8B

*million particles per cubic foot

Section III — Physical/Chemical Characteristics

Boiling Point	N/A	Specific Gravity (H_2O = 1)	0.82
Vapor Pressure (mm Hg.)	N/A	Melting Point	N/A
Vapor Density (AIR = 1)	N/A	Evaporation Rate (Butyl Acetate = 1)	N/A

Solubility in Water
Material is Water Repellent Coated.

Appearance and Odor
Yellow Powder With No Characteristic Odor.

Section IV — Fire and Explosion Hazard Data

Flash Point (Method Used)	Flammable Limits	LEL	UEL
NONE	N/A		

Extinguishing Media
None. This Material Is An Extinguishing Agent.

Special Fire Fighting Procedures
NONE

Unusual Fire and Explosion Hazards
NONE

Section V — Reactivity Data

Stability	Unstable		Conditions to Avoid N/A
	Stable	X	

Incompatibility (*Materials to Avoid*)
STRONG BASES

Hazardous Decomposition or Byproducts AMMONIA, CARBON MONOXIDE AND ABOVE 350°F CAN PRODUCE NITROGEN OXIDES.

Hazardous Polymerization	May Occur		Conditions to Avoid N/A
	Will Not Occur	X	

Section VI — Health Hazard Data

Route(s) of Entry: Inhalation? YES Skin? YES Ingestion? YES

Health Hazards (*Acute and Chronic*)
EYES AND SKIN-IRRITATES SLIGHTLY IF INHALED, IRRITATES RESPIRATORY PASSAGES. TREAT AS A MINERAL DUST. IF INGESTED, CAN CAUSE SORE THROAT, ABDOMINAL PAIN, NAUSEA, AND VOMITING. HARMFUL IF SWALLOWED.

Carcinogenicity: NTP? NO IARC Monographs? NO OSHA Regulated? NO

Signs and Symptoms of Exposure

Medical Conditions Generally Aggravated by Exposure NONE KNOWN

Emergency and First Aid Procedures
FLUSH EYES WITH WATER FOR 15 MINUTES. WASH SKIN WITH SOAP AND WATER. IF INHALED, TRANSPORT TO FRESH AIR, IF INGESTED, RINSE AND DRINK WATER. CONSULT A PHYSICIAN.

Section VII — Precautions for Safe Handling and Use

Steps to Be Taken in Case Material Is Released or Spilled
CONTAIN SPILLS AND SWEEP UP.

Waste Disposal Method
DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS.

Precautions to Be Taken in Handling and Storing
STORE IN CLOSED MOISTURE-FREE CONTAINERS IN A COOL DRY LOCATION. AVOID UNNECESSARY DUST.

Other Precautions DO NOT MIX THIS PRODUCT WITH OTHER EXTINGUISHING AGENTS. DO NOT USE ON OXIDIZING MATERIALS SUCH AS SODIUM NITRATE. IF USED ON OXIDIZING MATERIALS IT FORMS OXIDES OF NITROGEN WHICH ARE TOXIC VAPORS.

Section VIII — Control Measures

Respiratory Protection (*Specify Type*) DUST RESPIRATOR REQUIRED WHEN TLV IS EXCEEDED. NUISANCE DUST (total) 15mg/m^3. DUST RESPIRATOR RECOMMENDED WHENEVER AIRBORNE DUST IS PRESENT.

Ventilation	Local Exhaust RECOMMENDED	Special
	Mechanical (*General*) RECOMMENDED	Other

Protective Gloves YES	Eye Protection SAFETY GLASSES

Other Protective Clothing or Equipment
NONE REQUIRED

Work/Hygienic Practices
USE GOOD HYGIENE AND GOOD HOUSEKEEPING PRACTICES.

☆ U.S.G.P.O. 1986-491-529/45775

4, FP

Go-Jo Hand Cleaner

U.S. DEPARTMENT OF LABOR
Occupational Safety and Health Administration

Form Approved
OMB No. 44-R1367

MATERIAL SAFETY DATA SHEET

9/20/85

Required under USDL Safety and Health Regulations for Ship Repairing, Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)

SECTION I

MANUFACTURER'S NAME: Go-Jo Industries, Inc.	EMERGENCY TELEPHONE NO.: (216) 920-8100
ADDRESS (Number, Street, City, State, and ZIP Code): P.O. Box 991, Akron, Ohio 44309	
CHEMICAL NAME AND SYNONYMS: N/A	TRADE NAME AND SYNONYMS: Go-Jo Extra Heavy Duty Hand Clnr
CHEMICAL FAMILY: N/A	FORMULA: N/A

SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS			BASE METAL		
CATALYST			ALLOYS		
VEHICLE			METALLIC COATINGS		
SOLVENTS: Petroleum Distillate	<40		FILLER METAL PLUS COATING OR CORE FLUX		
ADDITIVES: Diisopropanolamine	<5		OTHERS: cont'd Nonoxynol -10	<5	
OTHERS: Propylene Glycol	<5				

HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES	%	TLV (Units)
-NONE-		

SECTION III - PHYSICAL DATA

BOILING POINT (°F.)	N/A	SPECIFIC GRAVITY (H_2O=1)	0.985
VAPOR PRESSURE (mm Hg.)	N/A	PERCENT, VOLATILE BY VOLUME (%)	ca 90
VAPOR DENSITY (AIR=1)	N/A	EVAPORATION RATE (Water =1)	1
SOLUBILITY IN WATER	ca 50%		
APPEARANCE AND ODOR	White gel - pleasant odor		

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

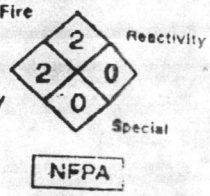
FLASH POINT (Method used): 270°F (TOC)	FLAMMABLE LIMITS	Lel	Uel
EXTINGUISHING MEDIA: Water			
SPECIAL FIRE FIGHTING PROCEDURES: None			
UNUSUAL FIRE AND EXPLOSION HAZARDS: None			

(Continued on reverse side)

DG 11

WD-40®

F.P. - 8 -



MATERIAL SAFETY DATA SHEET

I. PRODUCT IDENTIFICATION

Manufacturer:	WD-40 Company	Emergency Telephone:	(619) 275-1400
Address:	1061 Cudahy Place (92110) P.O. Box 80607 San Diego, California 92138-9021	Chemical Name:	Organic Mixture
		Trade Name:	WD-40 Aerosol

II. HAZARDOUS INGREDIENTS 8030-00-C00-1243

Chemical Name	CAS Number	%	Exposure Limit ACGIH/OSHA
Aliphatic Petroleum Distillates	8052-41-3	50	100 ppm (PEL)
A-70 Hydrocarbon Propellant	68476-85-7	25	1000 ppm (PEL)
Petroleum Base Oil	8012-95-1	> 15	5 mg/M³ (TWA)
Corrosion Inhibitor	Proprietary Mixture	< 10	5 mg/M³ (TWA)
Wetting Agent	Proprietary Mixture	< 5	500 ppm (PEL)
Fragrance	Proprietary Mixture	< 5	NDA

III. PHYSICAL DATA

Boiling Point:	NA	Evaporation Rate:	Not determined
Vapor Density: (air = 1)	Greater than 1	Vapor Pressure:	50 PSI @ 70°F
Solubility in Water:	Insoluble	Appearance:	Light amber
Specific Gravity (H_20 = 1)	.710 @ 70°F	Odor:	Characteristic odor
Percent Volatile (volume):	80%		

IV. FIRE AND EXPLOSION

Flash Point:	NA to aerosol cans
Flammable Limits:	(propellant portion) [Lel] 1.8% [Uel] 9.5%
Extinguishing Media:	CO_2, Dry Chemical
Special Fire Fighting Procedures:	None
Unusual Fire and Explosion Hazards:	Considered "extremely flammable" under Consumer Product Safety Commission regulations.

V. HEALTH HAZARD INFORMATION

Threshold Limit Value

Aliphatic Petroleum Distillates (Stoddard solvent) lowest TLV (ACGIH 100 ppm.)

Symptoms of Overexposure

Inhaled Vapor: May cause anesthesia, headache, dizziness, nausea and upper respiratory irritation.
Skin Contact: May cause drying of skin and or irritation.
Eye Contact: May cause irritation, tearing and redness.
Swallowed: May cause irritation, nausea, vomiting and diarrhea.
Aspiration Into Lungs: May cause chemical pneumonitis.

First Aid Emergency Procedures

Swallowed: Do not induce vomiting, seek medical attention.
Eye Contact: Immediately flush eyes with large amounts of water for 15 minutes.
Skin Contact: Wash with soap and water.
Inhaled: Remove to fresh air. Give artificial respiration if necessary. If breathing is difficult, give oxygen.

Suspected Cancer Agent

Yes _____ No X The components in this mixture have been found to be noncarcinogenic by IARC and NTP.

... DATA

Stability:	Stable X Unstable
Conditions to avoid:	NA
Incompatability:	Strong oxidizing materials
Hazardous decomposition products:	NA
Hazardous polymerization:	May occur Will not occur X

VII. SPILL OR LEAK PROCEDURES

Spill Response Procedures

Spill unlikely from aerosol cans. Leaking cans should be placed in plastic bag or open pail until pressure has dissipated.

Waste Disposal Method

Empty aerosol cans should not be punctured or incinerated; bury in land fill. Liquid should be incinerated or buried in land fill.

VIII. SPECIAL HANDLING INFORMATION

Ventilation:	Sufficient to keep solvent vapor less than TLV.
Respiratory Protection:	None required.
Protective Gloves:	None required.
Eye Protection:	None required.
Other Protective Equipment:	None required.

IX. SPECIAL PRECAUTIONS

Keep from sources of ignition, do not take internally. Avoid excessive inhalation of spray particles. Do not puncture, incinerate or store container above 120°F.

X. TRANSPORTATION DATA

Domestic Surface

Description: Consumer Commodity
Hazard Class: ORM-D
ID No.: NONE
Label Required: Consumer Commodity (ORM-D)

Domestic Air

Description: Consumer Commodity (Flammable Gas-Aerosol products)
Hazard Class: ORM-D
ID No.: NONE
Label Required: Consumer Commodity (ORM-D-AIR)

IGNATURE: R. Miles TITLE: Technical Director

EVISION DATE: April 1986 SUPERSEDES: December 1985

A = Not applicable NDA = No data available < = Less than > = More than

believe the statements, technical information and recommendations contained herein are reliable. However, the data is provided without warranty, pressed or implied. It is the users responsibility both to determine safe conditions for use of this product and assume loss, damage or expense, ect or consequential, arising from its misuse. Before using product, read label.

********** R I G H T T O K N O W **********

1103 SMOKE DETECTOR TESTER

Chemical Id	Chemical Component
XX	CONTENTS PARTIALLY UNKNOWN
8020-83-5	PETROLEUM HYDROCARBON

**** For further information check your Material Safety Data Sheet ****

U.S. DEPARTMENT OF LABOR
Occupational Safety and Health Administration

Form Approved
OMB No. 44-R1387

MATERIAL SAFETY DATA SHEET

MSDS1103

Required under USDL Safety and Health Regulations for Ship Repairing, Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)

SECTION I

MANUFACTURER'S NAME	EMERGENCY TELEPHONE NO.
Aerosol Services Company, Inc.	(213) 968-8531

ADDRESS (Number, Street, City, State, and ZIP Code)
425 S. Ninth Ave. City of Industry, CA 91746

CHEMICAL NAME AND SYNONYMS	TRADE NAME AND SYNONYMS
N/A	Smoke Detector Tester
CHEMICAL FAMILY	**FORMULA**
N/A	N/A

SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS			BASE METAL		
CATALYST			ALLOYS		
VEHICLE			METALLIC COATINGS		
SOLVENTS			FILLER METAL PLUS COATING OR CORE FLUX		
ADDITIVES			OTHERS		
OTHERS					

HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES	%	TLV (Units)
Petroleum Hydrocarbon	10	400ppm
Chlorinated Hydrocarbon	15	500ppm
Ester	5	5mg/cum
Hydrocarbon Aerosol Propellants	70	1000ppm

SECTION III - PHYSICAL DATA

BOILING POINT (°F.)		SPECIFIC GRAVITY (H_2O=1)	.98
VAPOR PRESSURE (~~mm Hg.~~)	Can Pressure @70°F 50 psig	PERCENT, VOLATILE BY VOLUME (%)	100
VAPOR DENSITY (AIR=1)	>1	EVAPORATION RATE (_____ =1)	N/A
SOLUBILITY IN WATER	Insoluble		
APPEARANCE AND ODOR	Aerosol Air Spray		

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used)	FLAMMABLE LIMITS	Lel	Uel
N/A Aerosol Can	Propellent	1.8% vol.	9.5% vol.

EXTINGUISHING MEDIA
CO_2, Dry Chemical, Foam

SPECIAL FIRE FIGHTING PROCEDURES

UNUSUAL FIRE AND EXPLOSION HAZARDS Rupture of container above 130°F could cause boiling liquid flash fire if ignited.

(Continued on reverse side)

SECTION V — HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE	See Section II
EFFECTS OF OVEREXPOSURE	Irritiation, dizziness, Headache, unconsciousness, asphyxiation. Excess liquid contact with skin will dry and defat the skin.
EMERGENCY AND FIRST AID PROCEDURES	Vapor: Remove from contact, call a physician. If breathing is irregular or stopped, start resusitation, administer oxygen. Swallowed: Give two glasses of water. Induce vomiting immediately by sticking finger down throat. Call a physician. Never give an unconscous person anthing by mouth. Skin: Wash with warm soap and water, remove contaminated clothing. Eyes: Flush with clear water for 15 minutes or until irritation subsides

SECTION VI · REACTIVITY DATA

STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	
INCOMPATABILITY (Materials to avoid)	Strong oxidizing agents		
HAZARDOUS DECOMPOSITION PRODUCTS	None		
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	

SECTION VII · SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED	Leaking cans should be placed in open pail outdoors until pressure has dissipated, then dispose of.
WASTE DISPOSAL METHOD	Bury at approved landfill in accordance with Local, State, and Federal Law.

SECTION VIII · SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (Specify type)	None		
VENTILATION	LOCAL EXHAUST: Sufficient to keep solvent vapor below TLV	SPECIAL	None
	MECHANICAL (General)	OTHER	None
PROTECTIVE GLOVES	None	EYE PROTECTION	None
OTHER PROTECTIVE EQUIPMENT	None		

SECTION IX · SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING	Keep from sources of ignition. Do not take internally. Avoid excessive inhalation of aerosol.
OTHER PRECAUTIONS	Do not store above 120°F. Do not incinerate or puncture container.

Form OSHA-20
Rev. May 72

Carbon Dioxide Material Safety Data Sheet

Industrial Gas Division
Air Products and Chemicals, Inc.
P.O. Box 538
Allentown, PA 18105
Tel. (215) 481-4911 · TWX 510-651-3686
CABLE-AIRPROD · TELEX 84-7416

AIR PRODUCTS

EMERGENCY PHONE: 800—523-9374 IN PENNSYLVANIA: 800—322-9092	TRADE NAME AND SYNONYMS Carbon Dioxide, Dry Ice (solid only)	CHEMICAL NAME AND SYNONYMS Carbon Dioxide, Carbonic Anhydride, Carbonic Acid Gas
ISSUE DATE AND REVISIONS Issued: 1 November 1977 Rev: 16 February 1981	FORMULA CO_2 MW: 44.01	CHEMICAL FAMILY Nonmetallic Oxides

HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE
TLV = 5000 ppm [TLV-STEL (Short Term Exposure Limit) = 15000 ppm (1.5% by vol.)]

SYMPTOMS IF INGESTED, CONTACTED WITH SKIN, OR VAPOR INHALED
Carbon dioxide does not support life and may produce immediately hazardous atmospheres. At a concentration in excess of 1.5%, carbon dioxide may produce hyperventilation, headaches, visual disturbances, tremor, loss of consciousness and death. Symptoms of exposure in the concentration ranges of 1.5-5% may be highly variable, but typical symptoms of carbon dioxide intoxication include the following:

CO_2 Concentration	Symptoms
3-6%	headaches, dyspnea, perspiration
6-10%	Headache, dyspnea, perspiration, tremors, visual disturbance, unconsciousness
Over 10%	Unconsciousness

If the concentration of carbon dioxide exceeds 10%, unconsciousness can occur without warning, preventing self-rescue. At much higher concentrations, carbon dioxide displaces the oxygen in air below levels necessary to support life.

TOXICOLOGICAL PROPERTIES
Carbon dioxide is a minor but important constituent of the atmosphere, averaging about 0.03% or 300 ppm by volume. At higher concentrations it affects the respiratory rate. Additional symptoms are described above.

RECOMMENDED FIRST AID TREATMENT
Persons suffering from the toxic effect of carbon dioxide should be moved to areas with normal atmosphere. SELF-CONTAINED BREATHING APPARATUS MAY BE NECESSARY TO PREVENT TOXIC EXPOSURE OR ASPHYXIATION OF RESCUE WORKERS. Assisted respiration and supplemental oxygen should be given if the victim is not breathing. Frozen tissues should be flooded or soaked with tepid water (105-115F; 41-46C). DO NOT USE HOT WATER. Cryogenic burns which result in blistering or deeper tissue freezing should be seen promptly by a physician.

FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used)	AUTO IGNITION TEMP	FLAMMABLE LIMITS	LEL	UEL
N/A	N/A	N/A	N/A	N/A

EXTINGUISHING MEDIA
Carbon dioxide is an extinguishing agent for Class B & C fires.

ELECTRICAL CLASSIFICATION
GROUP N/A

SPECIAL FIRE FIGHTING PROCEDURES
N/A

UNUSUAL FIRE AND EXPLOSION HAZARDS
N/A

PHYSICAL DATA

BOILING POINT (°F.) (Sublimes)	FREEZING POINT (°F.)
@ 1 atm -109.3F (-78.5C)	@ 76 psia -69.9F (-56.6C)
VAPOR PRESSURE (psia)	SOLUBILITY IN WATER
@ 68F (20C) 831 psia (56.5 atm)	@ 68F (20C), 1 atm 87.8% by volume

VAPOR DENSITY (lb/cu ft)	SPECIFIC GRAVITY (AIR = 1)	LIQUID DENSITY (lb/cu ft)	SPECIFIC GRAVITY (H_2O = 1)
@ 68F (20C), 1 atm 0.115	@ 68F (20C), 1 atm 1.53	@ -35F (-37C), 11 atm 68.74	solid @ -110F (-79C), 1 atm 1.56

APPEARANCE AND ODOR
Carbon dioxide is colorless and odorless as gas or liquid. It is stored in containers under its own vapor pressure. If the pressure is suddenly relieved, the liquid rapidly cools as it evaporates and sublimes, forming dry ice at -109.3F (-78.5C)

DISCLAIMER

Information contained in this data sheet is offered without charge for use by technically qualified personnel at their discretion and risk. All statements, technical information and recommendations contained herein are based on tests and data which we believe to be reliable, but the accuracy or completeness thereof is not guaranteed and no warranty of any kind is made with respect thereto. This information is not intended as a license to operate under or a recommendation to practice or infringe any patent of this Company or others covering any process, composition of matter or use.
Since the Company shall have no control of the use of the product described herein, the Company assumes no liability for loss or damage incurred from the proper or improper use of such product.

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Printed in U.S.A. 310-408

REACTIVITY DATA

STABILITY			CONDITIONS TO AVOID
	UNSTABLE		
	STABLE	X	None

INCOMPATIBILITY (Materials to avoid)
If moisture is present, materials must resist carbonic acid.

HAZARDOUS DECOMPOSITION PRODUCTS
None

HAZARDOUS POLYMERIZATION			CONDITIONS TO AVOID
	MAY OCCUR		
	WILL NOT OCCUR	X	None

SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED
Carbon dioxide in small quantities will vaporize leaving behind carbon dioxide "snow" (a combination of dry ice and water ice where atmospheric moisture is present). Ventilate indoor areas well to avoid hazardous carbon dioxide concentrations. Ventilate well and avoid contact with cold vapors or dry ice. Carbon dioxide is a heavy gas and will remain in low spots without assisted ventilation.

WASTE DISPOSAL METHOD
Do not attempt to dispose of residual carbon dioxide in compressed gas cylinders. Return cylinders to Air Products with residual pressure, the cylinder valve tightly closed, and the valve cap in place. When disposing of bulk quantities of carbon dioxide from refrigerated storage tanks, always dispose of carbon dioxide outside, in a well ventilated location away from work areas, where vapors can disperse. Vent to the atmosphere slowly since rapid depressurization of the container will cause the formation of solid carbon dioxide (dry ice) internally, requiring longer periods to vaporize.

SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (Specify type)
Use self-contained breathing apparatus in oxygen-deficient atmospheres or where carbon dioxide exceeds 1.5%. CAUTION! Respirators will not function. Use may result in asphyxiation.

VENTILATION	LOCAL EXHAUST	SPECIAL
Natural or mechanical where gas or vapors are present.	May be useful at point sources of CO_2 vapors.	
	MECHANICAL (General) Where low lying areas are not naturally ventilated	OTHER Vents should be situated to avoid higher than normal concentration of carbon dioxide in work areas.

PROTECTIVE GLOVES
Use loose fitting gloves or impermeable material such as leather when working with cold liquid, solid, or vapor.

EYE PROTECTION
Safety glasses are recommended when handling high-pressure cylinders and in areas where vapors are discharged.

OTHER PROTECTIVE EQUIPMENT
None

SPECIAL PRECAUTIONS*

SPECIAL LABELING INFORMATION
Carbon dioxide shipment must be in accordance with Department of Transportation (DOT) regulations using the DOT "NON-FLAMMABLE GAS" label. Consult DOT regulations for details on the shipping of hazardous materials.

SPECIAL HANDLING RECOMMENDATIONS
Prevent contact of liquid CO_2, cold vapors, or carbon dioxide "snow" with exposed skin. Prevent entrapment of liquid in closed systems. Use only in well ventilated areas. Compressed gas cylinders contain gaseous and liquid carbon dioxide at extremely high pressure and should be handled with care. Use a pressure-reducing regulator when connecting to lower pressure piping systems. Secure cylinders when in use. Never use direct flame to heat a compressed gas cylinder. Use a check valve to prevent backflow into storage container. Avoid dragging, rolling, or sliding cylinders, even for a short distance. Use a suitable hand truck. For additional handling recommendations on compressed gas cylinders, consult Compressed Gas Association Pamphlet P-1.

SPECIAL STORAGE RECOMMENDATIONS
Store liquid containers and cylinders in well ventilated areas. Keep cylinders away from sources of heat. Storage should not be in heavy traffic areas to prevent accidental knocking over or damage from passing or falling objects. Valve caps should remain on cylinders not connected for use. Segregate full and empty cylinders. Storage areas should be free of combustible material. Avoid exposure to areas where salt or other corrosive chemicals are present. Store carbon dioxide cylinders with the valve end up. See Compressed Gas Association Pamphlet P-1 for additional storage recommendations.

SPECIAL PACKAGING RECOMMENDATIONS
Carbon dioxide containers meet Department of Transportation (DOT) specifications or American Society of Mechanical Engineers (ASME) codes.

OTHER RECOMMENDATIONS OR PRECAUTIONS
In applications where temperatures less than -20F (-29C) are expected, avoid the use of carbon steel and other materials which become brittle at low temperatures. Compressed gas cylinders should not be refilled except by qualified producers of compressed gases. Shipment of a compressed gas cylinder filled without the permission of the owner is a violation of Federal Law. The atmosphere in areas in which CO_2 gas may be vented and collect should be tested with a portable or continuous monitoring CO_2 gas analyzer.

*Various Government agencies (i.e., Department of Transportation, Occupational Safety and Health Administration, Food and Drug Administration and others) may have specific regulations concerning the transportation handling, storage or use of this product which will not be reflected in this data sheet. The customer should review these regulations to ensure that he is in full compliance.

Scouring Powder 5, FP, 8, 2

DOD Hazardous Materials Information System
DoD 6050.5-LR
AS OF AUGUST 1992
For U.S. Government Use Only

FSC: 7930
NIIN: 007218592
Manufacturer's CAGE: 0B5U9
Part No. Indicator: A
Part Number/Trade Name: SCOURING POWDER (BLEACH)

==========

General Information

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Item Name: SCOURING POWDER
Manufacturer's Name: OMEGA CHEMICAL CORP
Manufacturer's Street: 6935 WEST 62ND STREET
Manufacturer's P. O. Box: N/K
Manufacturer's City: CHICAGO
Manufacturer's State: IL
Manufacturer's Country: US
Manufacturer's Zip Code: 60638
Manufacturer's Emerg Ph #: 312-586-8000
Manufacturer's Info Ph #: 800-255-3924
Distributor/Vendor # 1:
Distributor/Vendor # 1 Cage:
Distributor/Vendor # 2:
Distributor/Vendor # 2 Cage:
Distributor/Vendor # 3:
Distributor/Vendor # 3 Cage:
Distributor/Vendor # 4:
Distributor/Vendor # 4 Cage:
Safety Data Action Code: A
Safety Focal Point: G
Record No. For Safety Entry: 001
Tot Safety Entries This Stk#: 006
Status: SM
Date MSDS Prepared: 00JUL91
Safety Data Review Date: 03JUN92
Supply Item Manager: GSA
MSDS Preparer's Name: PAUL ZALANTIS
Preparer's Company: OMEGA CHEMICAL CORPORATION
Preparer's St Or P. O. Box: 6935 WEST 62ND STREET
Preparer's City: CHICAGO
Preparer's State: IL
Preparer's Zip Code: 60638
Other MSDS Number:
MSDS Serial Number: BNCGB
Specification Number: A-A-269
Spec Type, Grade, Class: N/K
Hazard Characteristic Code: N/
Unit Of Issue:
Unit Of Issue Container Qty:
Type Of Container:
Net Unit Weight:
NRC/State License Number: N/K
Net Explosive Weight:
Net Propellant Weight-Ammo: N/K
Coast Guard Ammunition Code:

Ingredients/Identity Information

Proprietary: NO
Ingredient: SILICON DIOXIDE (SI02)
Ingredient Sequence Number: 01
Percent: 93
Ingredient Action Code: A
Ingredient Focal Point: G
NIOSH (RTECS) Number: VV7330000
CAS Number: 14808-60-7
OSHA PEL: NOT ESTABLISHED
ACGIH TLV: 0.1 MG/M3(RESP DUST)
Other Recommended Limit: NONE SPECIFIED

Proprietary: NO
Ingredient: SODIUM DICHLORO-S-TRIAZINETRIONE DIHYDRATE
Ingredient Sequence Number: 02
Percent: <1
Ingredient Action Code: A
Ingredient Focal Point: G
NIOSH (RTECS) Number: 1006726SD
CAS Number: N/K
OSHA PEL: NOT ESTABLIHSED
ACGIH TLV: NOT ESTABLISHED
Other Recommended Limit: NONE SPECIFIED

Proprietary: NO
Ingredient: HEALTH & HZD INFO DISCLOSED IS FOR EXPOSURE TO AIRBORNE RESPIRABLE DUST OVER A FULL SHIFT (UP TO 10-HR WRK DAY). *
Ingredient Sequence Number: 03
Percent: N/K
Ingredient Action Code: A
Ingredient Focal Point: G
NIOSH (RTECS) Number: 9999999ZZ
CAS Number: NR
OSHA PEL: N/K
ACGIH TLV: N/K
Other Recommended Limit: NONE SPECIFIED

Proprietary: NO
Ingredient: * THE UNIT SIZE AND NORMAL USAGE OF THIS END PRODUCT MAKES ATTAINMENT OF HAZARDOUS LIMITS HIGHLY UNLIKELY.
Ingredient Sequence Number: 04
Percent:
Ingredient Action Code: A
Ingredient Focal Point: G
NIOSH (RTECS) Number: 9999999ZZ
CAS Number: NR
OSHA PEL: N/K
ACGIH TLV: N/K
Other Recommended Limit: NONE SPECIFIED

Physical/Chemical Characteristics

Appearance And Odor: FINE, OFF-WHITE POWDER.
Boiling Point: N/K

Melting Point: N/K
Vapor Pressure (MM Hg/70 F): N/K
Vapor Density (Air=1): N/K
Specific Gravity: N/K
Decomposition Temperature: N/K
Evaporation Rate And Ref: NONE
Solubility In Water: NEGLIGIBLE
Percent Volatiles By Volume: N/K
Viscosity:
pH: 8.0
Radioactivity:
Form (Radioactive Matl):
Magnetism (Milligauss):
Corrosion Rate (IPY): N/K
Autoignition Temperature:

Fire and Explosion Hazard Data

Flash Point: NON-FLAMMABLE
Flash Point Method: N/K
Lower Explosive Limit: NONE
Upper Explosive Limit: NONE
Extinguishing Media: NONE REQURIED.
Special Fire Fighting Proc: N/K
Unusual Fire And Expl Hazrds: NONE.

Reactivity Data

Stability: YES
Cond To Avoid (Stability): NONE
Materials To Avoid: POWERFUL OXIDZING AGENTS.
Hazardous Decomp Products: HYDROFLUORIC ACID
Hazardous Poly Occur: NO
Conditions To Avoid (Poly): NONE

Health Hazard Data

LD50-LC50 Mixture: N/K
Route Of Entry - Inhalation: YES
Route Of Entry - Skin: N/K
Route Of Entry - Ingestion: N/K
Health Haz Acute And Chronic: PROLONGED EXPOSURE TO RESPIRABLE PRODUCT MAY CAUSE DELAYED (CHRONIC) LUNG INJURY (SILICOSIS). ACUTE OR RAPIDLY DEVELOPING SILICOSIS MAY OCCUR IN A SHORT PERIOD OF TIME IN HEAVY EXPOSURE. SILICOSIS IS A FORM OF DISABLING PULMONARY FIBROSIS, WHICH CAN BE PROGRESSIVE AND MAY LEAD TO DEATH.
Carcinogenicity - NTP: N/K
Carcinogenicity - IARC: YES
Carcinogenicity - OSHA: N/K
Explanation Carcinogenicity: SUFFICIENT EVIDENCE OF CARCINOGENICITY TO ANIMALS, LIMITED EVIDENCE OF CARCINOGENICITY TO HUMANS, IARC CLASS 2A.
Signs/Symptoms Of Overexp: UNDUE BREATHLESSNESS, WHEEZING, COUGH AND SPUTUM PRODUCTION.
Med Cond Aggravated By Exp: PULMONARY FUNCTION MAY BE REDUCED BY INHALATION. LUNG SCARRING PRODUCED BY INHALATION MAY LEAD TO PROGRESSIVE MASSIVE FIBROSIS OF LUNG, WHICH MAY AGGRAVATE OTHER PULMONARY CONDS & DISEASES *

Emergency/First Aid Proc: EYES: WASH IMMEDIATELY W/WATER. IF IRRITATION PERSISTS, SEEK MED ATTN. FOR GROSS INHALATION: REMOVE IMMED TO FRESH AIR. GIVE ARTIF RESPIRATION AS NEEDED. SEEK MED AID AS NEEDED.

Precautions for Safe Handling and Use

Steps If Matl Released/Spill: USE DUSTLESS METHODS (VACUUM) AND PLACE IN CLOSABLE CONTAINER FOR DISPOSAL OR FLUSH W/WATER. DO NOT DRY SWEEP. WEAR PROTECTIVE EQUIPMENT SPECIFIED BELOW.
Neutralizing Agent: N/K
Waste Disposal Method: DISPOSE OF IN ACCORANCE WITH FEDERAL, STATE & LOCAL REGULATIONS.
Precautions-Handling/Storing: AVOID BREAKAGE OF CONTAINER OR SPILLS OF MATERIAL. WASH/VACUUM CLOTHING WHICH HAS BECOME DUSTY.
Other Precautions: OSHA PEL: EXPOSURE TO AIRBORNE DUST SHALL NOT EXCEED AN 8 HR TIME-WEIGHTED AVERAGE LIMIT AS STATE IN 29 CFR 1910.1000. TABLE AIR CONTAMINANTS.

Control Measures

Respiratory Protection: ANY DUST RESPIRATOR
Ventilation: LOCAL EXHAUST
Protective Gloves: OPTIONAL
Eye Protection: WEAR PROTECTIVE SHIELD (SAFETY GLASSES)
Other Protective Equipment: OPTIONAL
Work Hygienic Practices: N/K
Suppl. Safety & Health Data: * AND WHICH INCREASES SUSCEPTIBILITY TO PULMONARY TUBERCULOSIS, PROGRESSIVE MASSIVE FIBROSIS MAY BE ACCOMPANIED BY RIGHT HEART ENLARGEMENT, HEART FAILURE AND PULMONARY FAILURE. SMOKING AGGRAVATES THE EFFECTS OF EXPOSURE.

Organization: Fire Prot. Div. Facility: Fire Prev. Sect. Point of Contact: E.L. Martin

NSN/MANUFACTURER	ADDRESS	PRODUCT USE	QUANTITY ON HAND	RATE OF USE
New York Bronze Powder Co. inc. 8010-00-290-6984	Elizabeth N.J. 07201	Marking Extinguishers Paint	5 CN	5 CN Per. Year
8010-00-721-9742 Seymor of Sycamore inc.	917 Crosby Av. Sycamore, Ill. 60178 Ph. 815-895-9101	"	"	"

Organization: Fire Prot. Div. Facility: Fire Prev. Sect. Point of Contact: E. L. Martin

NSN/MANUFACTURER	ADDRESS	PRODUCT USE	QUANTITY ON HAND	RATE OF USE
Chentronics Inc.	Hauppauge, N.Y. 11788	Tou O Wash Tuner Degreaser	1 CN	1cn Per Year

Organization: Fire Prot. Div. Facility: Fire Prev. Sect. Point of Contact: E. L. Martin

NSN/MANUFACTURER	ADDRESS	PRODUCT USE	QUANTITY ON HAND	RATE OF USE
6840-687-7904 Disinfectant ,Germicidal & Fungicidal	Lighthouse for the Blind I Sangee Emy # 713-527-9561	Cleaning Floors	3 Qt.	1 Qt. Per. Month

Organization: Fire Prot Div. Facility: Fire Prev. Sect. Point of Contact: E. L. Martin

NSN/MANUFACTURER	ADDRESS	PRODUCT USE	QUANTITY ON HAND	RATE OF USE
7930-00-141-5888 Barrier Ind. Inc.	Port Jervis, N.Y. 12771	Floor Was	1 CN	1CN Per Year

13 Feb 91

FM: Danny Sharpe, Hazardous Waste and Pollution Control Division,
Base Environmental Mgt. Dept.
To: Distribution List

Subj: Marine Corps Hazardous Material Pollution Prevention Program

1. This informal note forwards the enclosed information and confirms an inbrief by the Headquarters Marine Corps consultant, A. F. Meyer and Associates, Inc.. This consultant has been employed to develop the subject program and is making site visits to Marine Corps activities on the east coast.

2. As discussed with the POCs listed below, the site visit will be conducted on 19-20 February 1991. An inbrief by the consultant will be held 19 Feb at 0900 hrs. in the base Logistics conference room, Building 914. Please anticipate visits to your work areas on matters outlined in the enclosure within your cognizance.

Danny Sharpe
Danny Sharpe
x5093/5094

Major Russell, Base Logistics Department
Lt. Hayes, 2dFSSG Hazardous Material Disposal Coordinator
Ms. Glenee Smith, Occupational Health/Preventative Medicine
Naval Hospital
Ms. Mary Wheat, Marine Corps Air Station, New River
Ms. Helen Ramsey, Base Safety
Mr. Sammy Gwynn, Base Environmental Mgt. Dept
Ms. Johnson, Base Fire Department

DEPARTMENT OF THE NAVY
NAVAL HOSPITAL
CAMP LEJEUNE, NORTH CAROLINA 28542-5008

IN REPLY REFER TO

6260.23f
86/91-27-23f
31 JAN 1991

From: Commanding Officer, Naval Hospital, Camp Lejeune, NC
To: Commanding General, Marine Corps Base (Attn: Assistant Chief of Staff, Environmental Management Department)

Subj: RESULTS OF AIR SAMPLING DURING DS-2 REPACKING

Ref: (a) 29 CFR 1910.1000

Encl: (1) Table 1

1. INTRODUCTION

On 13 August and 27 September 1990, R. J. LaChapelle and J. C. Erdman (Industrial Hygiene Technicians) of the Industrial Hygiene Department air sampled workers from Environmental Management Department and 2d Reconnaissance Battalion while they repacked Decontaminating Solution-2 (DS-2).

2. FINDINGS

a. Operation: During the operations, workers wore a full-face respirator, chemical resistant gloves, boots and apron. During the first operation, Tyvek suits were worn. At the second operation, workers did not wear Tyvek suits which left skin exposed between their gloves and shirt sleeves. The pumping of DS-2 from leaking 5 gallon cans to overpack drums took place outside the buildings. Seals under the screw caps of the DS-2 cans were pierced with a screwdriver and wrench. Some splashing of the DS-2 occurred during can opening. Upon completing the pumping operation, several inches of DS-2 remained in the original container which had to be manually inverted to complete the transfer.

b. Results: Results were received from the laboratory on 26 December 1990. All employees' exposures were below the Time Weighted Average (TWA) required by reference (a). Complete results are included as Table 1.

3. RECOMMENDATIONS

a. Respirator: Results indicate that a full face respirator is adequate respiratory protection against two major components of DS-2, diethylene triamine and methyl cellosolve. Sampling for the third component of DS-2, sodium hydroxide, needs to be conducted before any change in respiratory protection can be recommended.

b. Personal Protective Equipment: Ensure that employees wear skin protection that completely covers the arms and face. Street clothes are not recommended.

Subj: RESULTS OF AIR SAMPLING DURING DS-2 REPACKING

c. Equipment: To prevent splashing of the DS-2, the proper tool for opening the cans should be used. A pump designed for 5 gallon cans should be used to reduce the amount of material to be transferred manually.

d. Summary: It is our opinion that repacking DS-2 is a labor intensive process with high potential for personnel injury. It is likely that the number of manhours and the hazard involved with transferring the DS-2 into larger containers outweighs the benefit. For future operations, we recommend that leaking DS-2 containers be packaged "as is" into overpack drums.

A. B. WOOD
By direction

Copy to:
Safety, 2dMarDiv

TABLE 1
Air Sampling Results,
Repacking of DS-2 Decontaminating Solution
Buildings 117 and BA-128

Name, ID	Date	Component	Result (MG/M^3)	TWA (MG/M^3)
Jones, Eugene GS-05 243-88-6923, Biotech	8/13/90	Methyl Cellosolve	<4.59	25
" "	9/27/90	" "	<6.28	25
" "	8/13/90	Diethylene Triamine	<0.120	4
Jones, Leroy WG-07 577-68-5117, Motor Vehicle Operator	8/13/90	Methyl Cellosolve	<4.59	25
" "	9/27/90	" "	<6.28	25
" "	8/13/90	Diethylene Triamine	<0.811	4
Harris, David WG-07 209-24-2679, Motor Vehicle Operator	8/13/90	Diethylene Triamine	<0.786	4
" "	9/27/90	Methyl Cellosolve	<6.28	25
Bush, Shawn E-03 590-36-6769, Recon Marine	8/13/90	Methyl Cellosolve	<4.59	25
" "	9/27/90	Diethylene Triamine	<0.280	4
Jarman, Esky WG-06 237-52-9781, Motor Vehicle Operator	8/13/90	Methyl Cellosolve	<4.59	25
" "	9/27/90	Diethylene Triamine	<0.120	4
Fiorvati, Richard WG-03, 010-26-4526, Laborer	8/13/90	Methyl Cellosolve	<4.59	25
" "	8/13/90	Diethylene Triamine	<0.121	4
Markwick, Bruce WG-07, 572-92-0426, Motor Vehicle Operator	8/13/90	Methyl Cellosolve	<4.59	25
" "	9/27/90	" "	<6.28	25

29 CFR PART 1910.120
FINAL RULE

Hazardous Waste Operations and Emergency Response: Final Rule

HAZWOP

The Superfund Amendment Re-authorization Act, OSHA Section 1910.120, stipulates certain training requirements for employees of RCRA sites. The following is a series of excerpts, specific to the training requirements; taken from OSHA's final rule, dated Monday, March 6, 1989.

TRAINING PROGRAM

New Employees

The employer shall develop and implement a training program, which is part of the employer's safety and health program, for employees involved with hazardous waste operations to enable employees to perform their assigned duties and functions in a safe and healthful manner so as not to endanger themselves or other employees. The initial training shall be for 24 hours, and refresher training shall be for eight hours annually. Employees who have received the initial training required by this paragraph shall be given a written certificate attesting that they have successfully completed the necessary training.

Current Employees

Employers who can show by an employee's previous work experience and/or training that the employee has had training equivalent to the initial training required by this paragraph shall be considered as meeting the initial training requirements of this paragraph as to that employee. Equivalent training includes the training that existing employees might have already received from actual site work experience. Current employees shall receive eight hours of refresher training annually.

Trainers

Trainers who teach initial training shall have satisfactorily completed a training course for teaching the subjects they are expected to teach or they shall have the academic credentials and instruction experience necessary to demonstrate a good command of the subject matter of the courses and competent instructional skills.

TRAINING

Specialist Employees

Employees who, in the course of their regular job duties, work with and are trained in the hazards of specific hazardous substances, and who will be called upon to provide technical advice or assistance at a hazardous substance release incident to the individual in charge, shall receive training or demonstrate competency in the area of their specialization.

First Responder Awareness Level

First responders at the awareness level are individuals who are likely to witness or discover a hazardous substance release and who have been trained to initiate an emergency response sequence by notifying the proper authorities of the release. They would take no further action beyond notifying the authorities of the release. First responders at the awareness level shall have sufficient experience to objectively demonstrated competency in the following areas:

- An understanding of what hazardous materials are, and the risks associated with them in an incident.
- An understanding of the potential outcomes associated with an emergency created when hazardous materials are present.
- The ability to recognize the presence of hazardous materials in an emergency.
- The ability to identify the hazardous materials, if possible.
- An understanding of the role of the first responder awareness individual in the employer's emergency response plan, including site security and control and the US Department of Transportation's Emergency Response Guidebook.
- The ability to realize the need for additional resources, and to make appropriate notifications to the communication center.

First Responder Operations Level

First responders at the operations level are individuals who respond to releases or potential releases of hazardous substances as part of the initial response to the site for the purpose of protecting nearby persons, property, or the environment from the effects of the release. They are trained to respond in a defensive fashion without actually trying to stop the release. Their function is to contain the release from a safe distance, keep it from spreading, and prevent exposures. First responders at the operational level shall have received at least eight hours of training or have suffi-

cient experience to objectively demonstrate competency in the following areas in addition to those listed for the awareness level and the employer shall so certify:

- Knowledge of the basic hazard and risk assessment techniques.
- Know how to select and use proper personal protective equipment provided to the first responder operational level.
- An understanding of basic hazardous materials terms.
- Know how to perform basic control, containment, and/or confinement operations within the capabilities of the resources and personal protective equipment available with their unit.
- Know how to implement basic decontamination procedures.
- An understanding of the relevant standard operating procedures and termination procedures.

Hazardous Materials Technician

Hazardous materials technicians are individuals who respond to releases or potential releases for the purpose of stopping the release. They assume a more aggressive role than a first responder at the operations level in that they will approach the point of release of a hazardous substance. Hazardous materials technicians shall have received at least 24 hours of training equal to the first responder operation level, and in addition, have competency in the following areas, and the employer shall so certify:

- Know how to implement the employer's emergency response plan.
- Know the classification, identification, and verification of known and unknown materials by using field survey instruments and equipment.
- Be able to function within an assigned role in the Incident Command System.
- Know how to select and use proper specialized chemical personal protective equipment provided to the hazardous materials technician.
- Understand hazard and risk assessment techniques.
- Be able to perform specialized control, containment, and/or confinement operations within the capabilities of the resources and personal protective equipment available.

- Understand and implement decontamination procedures.
- Understand termination procedures.
- Understand basic chemical and toxicological terminology and behavior.

Hazardous Materials Specialist

Hazardous materials specialists are individuals who respond with and provide support to hazardous materials technicians. Their duties parallel those of the hazardous materials technician, however, those duties require a more directed or specific knowledge of the various substances they may be called upon to contain. The hazardous materials specialist would also act as the site liaison with Federal, state, local and other government authorities in regards to site activities. Hazardous materials specialists shall have received at least 24 hours of training equal to the technician level and in addition have competency in the following areas and the employer shall so certify:

- Know how to implement the local emergency response plan.
- Understand classification, identification, and verification of known and unknown materials by using advanced survey instruments and equipment.
- Know of the state emergency response plan.
- Be able to select and use proper specialized chemical personal protective equipment provided to the hazardous materials specialist.
- Understand in-depth hazard and risk techniques.
- Be able to perform specialized control, containment, and/or confinement operations within the capabilities of the resources and personal protective equipment available.
- Be able to determine and implement decontamination procedures.
- Have the ability to develop a site safety and control plan.
- Understand chemical, radiological and toxicological terminology and behavior.

On Scene Incident Commander

Incident commanders, who will assume control of the incident scene beyond the first responder awareness level, shall receive at least 24 hours of training equal to the first responder operations level and in addition have competency in the following areas and the employer shall so certify:

- Know and be able to implement the employer's incident command system.
- Know how to implement the employer's emergency response plan.
- Know and understand the hazards and risks associated with employees working in chemical protective clothing.
- Know how to implement the local emergency response plan.
- Know of the state emergency response plan and of the Federal Regional Response Team.
- Know and understand the importance of decontamination procedures.

Post-Emergency Response Operations

Upon completion of the emergency response, if it is determined that it is necessary to remove hazardous substances, health hazards, and materials contaminated with them (such as contaminated soil or other elements of the natural environment) from the site of the incident, the employer shall comply with one of the following:

- Meet all of the requirements of paragraphs (b) through (o); or
- Where the clean-up is done on plant property using plant or workplace employees, such employees shall have completed the training requirements of the following: 29 CFR 1910.38(a); 1910.134; 1910.1200, and other appropriate safety and health training made necessary by the tasks that they are expected to be performed such as personal protective equipment and decontamination procedures. All equipment to be used in the performance of the clean-up work shall be in serviceable condition and shall have been inspected prior to use.

MANAGEMENT'S RESPONSIBILITIES

Worker Right-to Know Laws

Both State, and recently enacted Federal Standards, require company officials and representatives to inform workers of the health and environmental hazards associated with any chemical they are handling, be it a pure product or a waste.

Safety Rule Enforcement

It is the responsibility of company officials and representatives to not only inform workers of safety rules, but also to insure that the workers comply with those rules.

Material Safety Data Sheets

In conjunction with the recent Hazard Communication Standards, Materials Safety Data Sheets (MSDSs) must be made readily available to workers, and by 1988, MSDSs must also be made available to the public.

Spill Contingency Plan

It is the responsibility of Company officials to provide a Spill Contingency Plan and to adequately inform workers of its content. Workers must be able to adequately respond to a hazardous substance spill, to protect themselves, fellow workers, and the environment. It is also the responsibility of company officials to notify local hospitals, fire departments, and emergency squads as to the hazards posed at company worksites.

Employee Training

Specific Federal and State Regulations require annual Training in hazardous waste management. New employees require training within six months of employment. Documentation of training is required.

Under the Superfund Amendment Re-Authorization Act of 1986, generating facilities must provide training to "Emergency Response" personnel, such as fire department, fire brigade, emergency medical service and HAZMAT team. The training sessions and drills must total 24 hours annually, and is designed to instruct employees in the proper procedures and precautions to follow when responding to a hazardous substance emergency incident.

Reports and Recordkeeping

State and Federal Regulations require reports and records be kept or sent on a regular basis.

Notification of Spills

State and federal Regulations require notification to the National Response Center and State Officials under certain spill conditions, such as when R.Q. Substances enter the environment.

SARA

The Superfund Amendment Re-Authorization Act; Title III; Subtitle B (Emergency Planning and Community Right-to Know) requires affected industries to play an active role in local emergency planning committees developing emergency response plans. Facilities must also provide information on the manufacture, use, and storage of chemicals present at their facility to the State Commission, local committees, and local fire departments, and it must be made available for the general public.

Table 1. Training Requirements

Hazardous Waste Clean-Up Sites

Staff	
• Routine site employees	40 hours initial 24 hours field 8 hours annual refresher
• Routine site employees (minimal exposure)	24 hours initial 8 hours field 8 hours annual refresher
• Non-routine site employees	24 hours initial 8 hours field 8 hours annual refresher
Supervisor/Managers of	
• Routine site employees	40 hours initial 24 hours field 8 hours hazardous waste management 8 hours annual refresher
• Routine site employees (minimal exposure)	24 hours initial 8 hours field 8 hours hazardous waste management 8 hours annual refresher
• Non-routine site employees	24 hours initial 8 hours field 8 hours hazardous waste management 8 hours annual refresher

Treatment, Storage, and Disposal Sites

Staff	
• General Site employees	24 hours initial or equivalent 8 hours annual refresher
• Emergency response personnel	Trained to a level of competency Annual refresher

Note: See 29 CFR 1910.120 (e) and (p)(7).

Table 2. Training Requirements

Other Emergency Response Staff

Level 1 - First responder (awareness) level[1]	Sufficient training or proven experience in specific competencies Annual refresher
Level 2 - First responder (operations level)[2]	Level 1 competency and 8 hours initial or proven experience in specific competencies Annual refresher
Level 3 - HAZMAT technician[3]	24 hours of Level 2 and proven experience in specific competencies Annual refresher
Level 4 - HAZMAT specialist[4]	24 hours of Level 3 and proven experience in specific competencies Annual refresher
Level 5 - On-the-scene incident commander[5]	24 hours of Level 1 and additional competencies Annual refresher

Note: See 29 CFR 1910 120 (q) (6).

[1] *Witnesses or discovers* a release of hazardous materials and who are trained to notify the proper authorities.

2 *Responds* to releases of hazardous substances in a defensive manner, without trying to stop the releases.

[3] Responds aggressively to stop the release of hazardous substances.

[4] Responds with and in support to HAZMAT technicians, but who have specific knowledge of various hazardous substances.

[5] Assumes control of the incident scene beyond the first-responder awareness level.

UUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUU
U UNCLASSIFIED U
UUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUU

ADMINISTRATIVE MESSAGE

ROUTINE

R 011332Z NOV 91 ZYB PSN 149471B26

FM DRMO CP LEJEUNE NC

TO CG MCB CAMP LEJEUNE NC MCAS NEW RIVER NC

R 252055Z OCT 91 PSN 122072B15

FM DRMS FED CEN BATTLE CREEK MI//HH//

TO AIG 4573

INFO DGSC RICHMOND VA//STBA/QED//DGSC-S/Q
CDRUSAEHA ABERDEEN PROV GD MD

ACCT DS-GB4P

UNCLAS

PASS TO ALL SAFETY MANAGERS, MARKETING AND ENVIRONMENTAL OFFICES
SUBJECT: EPA NOTICE ON INSECT REPELLENT CONTAINING 2-ETHYL-1,
3-HEXANEDIOL, NSN 6840-00-142-8965, EPA REG NO. 3282-49

A. DGSC RICHMOND VA//STBA/QED//MESSAGE DTG PR111630ZSEP91, SAB.

1. PLEASE ADVISE ALL GENERATORS AND EMPLOYEES OF THIS HAZARD. DRMS ACTIVITIES WILL DISCONTINUE USE OF ANY SUBJ INSECT REPELLENT IMMEDIATELY AND TURN IT IN FOR DISPOSAL. EFFECTIVE IMMEDIATELY, SUBJ INSECT REPELLENT WILL NOT BE SOLD. SPECIFICALLY, ITEMS OFFERING SUBJ WILL BE WITHDRAWN FROM SALE AT BID OPENING; ITEMS CONTAINING SUBJ WILL EITHER BE WITHDRAWN OR A WAIVER AGREEING TO THE PARTIAL WITHDRAWAL OBTAINED PRIOR TO AWARD; ITEMS AWARDED, BUT NOT REMOVED, WILL BE DELETED FROM APPLICABLE CONTRACTS. DISPOSAL OF SUBJ WILL BE AS OUTLINED BELOW.

2. RETRANSMITTAL OF REFERENCE A FOLLOWS:

DLVR:DRMO CP LEJEUNE NC(4)...ORIG

DRMO(1)...ACT FOR CG MCB CAMP LEJEUNE(101) /12/
BLOG(1) BCOS(1) BADJ(1) SSTF(70) GSTF(14) OCDR(11) FOOD(1)
DSSC(1)

RTD:000-836/COPIES:0105

149471/305 1 OF 1 MATA0123 305/13:50Z 252055Z OCT 91
CSN:RXOA00043 305/14:20Z DRMO CP LEJEUN

UUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUU
U UNCLASSIFIED U

"1. REFERENCE EPA ENVIRONMENTAL NEWS NOTICE, 26 AUG 91.

2. ADDRESSEES ARE RESPONSIBLE FOR DISSEMINATION OF THIS MESSAGE TO ALL LATERAL AND SUBORDINATE UNITS, MAINTENANCE ACTIVITIES, ELEMENTS OR FOREIGN USERS AFFECTED OR CONCERNED. INCLUDE DGSC, RICHMOND, BA/STBA AS INFO INFO ADDRESSEE ON ALL RETRANSMITTED MESSAGES. THIS IS A COORDINATED DGSC-S/Q MESSAGE.

3. THE US EPA HAS ISSUED A NOTICE TO CONSUMERS ADVISING THEM THAT USE OF THE INSECT REPELLENT 2-ETHYL-1, 3-HEXANEDIOL, MAY POSE A RISK OF BIRTH DEFECTS TO PREGNANT WOMEN.

4. DLA (DGSC) PROCURED PRODUCT CONTAINING THIS REPELLENT UP TO 1988 UNDER NSN 6840-00-142-8965, P/N 6-12 PLUS, INSECT REPELLENT STICK. EPA REG. NO. 3282-49.

5. AFFECTED DLA CONTRACTS ARE LISTED BELOW:
DLA 400-81-C-3292
DLA 400-82-C-2879
DLA 400-84-C-2666
DLA 400-87-C-1598
DLA 400-88-C-0445

6. DLA CONTRACTS AFTER 1988 FOR INSECT REPELLENT STICKS UNDER NSN6840-00-142-8965 ARE FROM MILES, INC. THEIR CUTTER INSECT REPELLENT STICK CONTAINS ONLY DEET AND IS NOT AFFECTED.

7. THE MANUFACTURER (B-CON) HAS INITIATED A VOLUNTARY RECALL OF SUBJ INSECT REPELLENT. BASES HOLDING SUBJ REPELLENT SHOULD RETURN THE PRODUCT TO THE FOLLOWING ADDRESS NLT 31 DEC 91 (PREFERABLY ASAP!) VIA UNITED PARCEL SERVICE.
L & F PRODUCTS
ATTN: MR. BOB MASON
4934 LEWIS AVENUE
TOLEDO, OH 43612
TELEPHONE: 419) 476-4400
A PACKING SLIP SHOULD BE ENCLOSED PROVIDING NSN, DLA CONTRACT NO., AND QUANTITY OF STICKS PACKED IN THE BOX.

8. A SEPARATE COPY OF THE PACKING LIST SHOULD BE MAILED TO THE FOLLOWING ADDRESS NLT 31 DEC 91 (PREFERABLE ASAP!) IN ORDER TO OBTAIN CREDIT ($15.69 PER DOZEN CARTRIDGES/BOX):
L & F PRODUCTS
ATTN: LANCE KAYE
225 SUMMIT AVENUE
MONTVALE, NJ 07645-1575
TELEPHONE: (201) 573-5665

9. DLA HAS NO INSECT REPELLENT STICKS CONTAINING 2-ETHYL-1, 3-HEXANEDIOL IN ITS NEW STOCK INVENTORY. REPLACEMENT CUTTER STICK

INSECT REPELLENT IS AVAILABLE FROM DGSC USING THE SAME NSN 6840-00-142-8965 VIA MILSTRIP/FEDSTRIP.

10. POC IS MR. CLIFFORD MYERS, CHEMIST, DGSC-STBA, DSN 695-3995 OR COMMERCIAL TELEPHONE (804) 275-3995."

3. POS AT HQ DRMS IS JEFF PFANNES/TOM MCKEIRNAN, DRMS-HH, DSN 932-5866 OR 932-7036, RESPECTIVELY. THIS IS A JOINT DRMS-H AND DRMS-H MESSAGE.

BT

Organization: Fire Prot. Div. Facility: Fire Prev. Sect. Point of Contact: E. L. Martin

NSN/MANUFACTURER	ADDRESS	PRODUCT USE	QUANTITY ON HAND	RATE OF USE
6850-00-401-7912	The Silicome Paper Co. of America., INC. Emy ## 201-469-2200	Cleaning Lens	2 CN 13.5 OZ.	1 CN Per. Year
Cleaning Compound Optical lens				

Organization: Fire Prot. Div. Facility: Fire Prev. Sect. Point of Contact: E. L. Martin

NSN/MANUFACTURER	ADDRESS	PRODUCT USE	QUANTITY ON HAND	RATE OF USE
Allied Block Chenical Co.	New Eagle, PA. 15067	Cleanser	4 CN	2 CN Per Year

Organization: Fire Prot. Div. Facility: Fire Prev. Sect. Point of Contact: E. L. Martin

NSN/MANUFACTURER	ADDRESS	PRODUCT USE	QUANTITY ON HAND	RATE OF USE
Charcoal Starter	Sebring Forest Ind. Sebring, Ohio 44672	Charcoal Starter	1 Qt.	1 Qt. Per. Year

Organization: Fire Prot. Div. Facility: Fire Prev. Sect. Point of Contact: E. L. Martin

NSN/MANUFACTURER	ADDRESS	PRODUCT USE	QUANTITY ON HAND	RATE OF USE
7930-01-075-0776 Cleaning Compound Oven	National Lab. Emy # 201-391-8500	Cleaning Oven	1 CN	1 CN Per Year
Boy-Midway. Inc.	New York. N.Y.	Easy Off Oven Cleaner	1 CN	1 Cn Per year

Organization: Fire Prot. Div Facility: Fire Prev. Sect. Point of Contact: E. L. Martin

NSN/MANUFACTURER	ADDRESS	PRODUCT USE	QUANTITY ON HAND	RATE OF USE
7930-01-c00-7102 Theochem Laboratories inc.	5131 West Idlewild Tampa, Florida 33614	Floor Wax	1 CN	1 CN Per Year

ORDER FOR SUPPL[illegible]R SERVICES
(Contractor must submit f[illegible] copies of invoice.)

Form Approved
OMB No 0704-0187
Expires Aug 31, 1992

Public reporting burden for this collection of information is estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed and [illegible]ting and reviewing the collection of information. Send comments regarding [illegible]s collection of information, including suggestions for reducing this burden, [illegible] for Information Operations and Reports, 1215 Jefferson Davis Highway, Sui[illegible]ffice of Management and Budget, Paperwork Reduction Project (0704-0187), [illegible] form to either of these addresses. Send your completed form to the procu[illegible]

Thank you

2. CONTRACT/PURCH ORDER NO.	2. DELIVERY ORDER NO.	3. DATE O[illegible]
M67001 93P3256		93 AU[illegible]

RTIFIED FOR
NAL DEFENSE
DMS REG 1

6. ISSUED BY	CODE	7. ADMINISTE[illegible]
CONTRACTING DIVISION PSC BOX 20004 MCB CAMP LEJEUNE NC 28542-0004 J.P. PHILLIPS BRANCH I 919 451-3011		CONTRACTIN[illegible] PSC BOX 20[illegible] CAMP LEJEU[illegible]

LIVERY FOB
EST
THER
Schedule
other)

8. CONTRACTOR	CODE 0BMXD3S	FACILITY COD[illegible]
NAME AND ADDRESS MKC ENTERPRISES INC 5856 NEW PEACHTREE RD ATLANTA GA 30340		404-457-1341

RK IF
ESS IS
ALL
ALL DISADV
MEN-OWNED

9. SHIP TO	CODE SEESCH	15. PAYMENT WI[illegible]
SEE SCHEDULE FOR MRK FOR: SEESCH 93P3256 COMPLETE SHIPPING 28542		DEFENSE MRK FOR **MAIL I[illegible] TO ADDRESS SHOWN IN BLOCK 7 ABOVE 28542-5000

K ALL
GES AND
RS WITH
CONTRACT OR
ORDER NUMBER

DLVY		This delivery order is issued on another Government agency or in accordance with and subject to terms and conditions of above numbered contract.
PURCH	X	Reference your 93T8715 furnish the following on terms specified herein. ACCEPTANCE. THE CONTRACTOR HEREBY ACCEPTS THE OFFER REPRESENTED BY THE NUMBERED PURCHASE ORDER AS IT MAY PREVIOUSLY HAVE BEEN OR IS NOW MODIFIED, SUBJECT TO ALL OF THE TERMS AND CONDITIONS SET FORTH, AND AGREES TO PERFORM THE SAME.

NAME OF CONTRACTOR	SIGNATURE	TYPED NAME AND TITLE	DATE SIGNED

If this box is marked, supplier must sign acceptance and return the following number of copies:

17. ACCOUNTING AND APPROPRIATION DATA/LOCAL USE

1731186.2720 000 67001 0 067001 2D 000000 47PX9183XXXX

18. ITEM NO.	19. SCHEDULE OF SUPPLIES/SERVICE	20. QUANTITY ORDERED/ ACCEPTED*	21. UNIT	22. UNIT PRICE	23. AMOUNT
	SEE ATTACHED SCHEDULE(S) ITEMS: 1				

*If quantity accepted by the Government is same as quantity ordered, indicate by X. If different, enter actual quantity accepted below quantity ordered & encircle	24. UNITED STATES OF AMERICA Sally B. Seals BY: E. T. COLE, JR. CONTRACTING/ORDERING OFFICER	25. TOTAL	1000.00
		29. DIFFERENCES	
26. QUANTITY IN COLUMN 20 HAS BEEN INSPECTED RECEIVED ACCEPTED AND CONFORMS TO THE CONTRACT EXCEPT AS NOTED	27. SHIP. NO.	28. D.O.VOUCHER NO.	30. INITIALS
DATE SIGNATURE OF AUTHORIZED GOVERNMENT REP.	PARTIAL FINAL	32. PAID BY	33. AMT VERIFIED CORRECT FOR
36. I certify this account correct & proper for payment.	31. PAYMENT COMPLETE PARTIAL FINAL	1140	34. CHECK NUMBER
DATE SIGNATURE AND TITLE OF CERTIFYING OFFICER			35. BILL OF LADING NO.

37. REC'D AT | 38. REC'D BY | 39. DATE REC'D | 40. TOTAL CONTRS | 41. S/P. ACCOUNT NUMBER | 42. S/P. VOUCHER NO.

Previous editions are obsolete.

ORDER FOR SUPPL[illegible]OR SERVICES
(Contractor must submit f[illegible] copies of invoice.)

Form Approved
OMB No 0704-0187
Expires Aug 31, 1992

Page 1 of 2

Public reporting burden for this collection of information is estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, Va. 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0187), Washington, DC. 20503. Please DO NOT RETURN your form to either of these addresses. Send your completed form to the procurement official identified in item 6.

1. CONTRACT/PURCH ORDER NO.	2. DELIVERY ORDER NO.	3. DATE OF ORDER	4. REQUISITION/PURCH REQUEST NO.	5. CERTIFIED FOR NATIONAL DEFENSE UNDER DMS REG 1 DO
M67001193P3256		93 AUG 04	SEE SCHEDULE	

6. ISSUED BY CODE
CONTRACTING DIVISION
PSC BOX 20004 MCB
CAMP LEJEUNE NC 28542-0004
J.P. PHILLIPS BRANCH I 919 451-3011

7. ADMINISTERED BY (other than 6) CODE
CONTRACTING DIVISION
PSC BOX 20004 MCB
CAMP LEJEUNE NC 28542-0004

8. DELIVERY FOB
[X] DEST
[ ] OTHER
(See Schedule if other)

9. CONTRACTOR CODE 0BMXD3S FACILITY CODE
484-457-1341

NAME AND ADDRESS
MKC ENTERPRISES INC
5856 NEW PEACHTREE RD
ATLANTA GA 30340

10. DELIVER TO FOB POINT BY (Date)
93 AUG 19

11. MARK IF BUSINESS IS
[X] SMALL
[ ] SMALL DISADV
[ ] WOMEN-OWNED

12. DISCOUNT TERMS
.000 % 00 DAYS NET 30

13. MAIL INVOICES TO
SEE BLOCK 15

14. SHIP TO CODE SEESCH
SEE SCHEDULE FOR
MRK FOR: SEESCH 93P3256
COMPLETE SHIPPING
28542

15. PAYMENT WILL BE MADE BY CODE M99116
DEFENSE ACCOUNTING OFFICE,CLNC
MRK FOR: SEESCH 93P3256
**MAIL INVOICES TO ADDRESS
SHOWN IN BLOCK 7 ABOVE 28542-5000

MARK ALL PACKAGES AND PAPERS WITH CONTRACT OR ORDER NUMBER

16. [ ] DLVY — This delivery order is issued on another Government agency or in accordance with and subject to terms and conditions of above numbered contract.

[X] PURCH — Reference your 93T8715 furnish the following on terms specified herein.
ACCEPTANCE. THE CONTRACTOR HEREBY ACCEPTS THE OFFER REPRESENTED BY THE NUMBERED PURCHASE ORDER AS IT MAY PREVIOUSLY HAVE BEEN OR IS NOW MODIFIED, SUBJECT TO ALL OF THE TERMS AND CONDITIONS SET FORTH, AND AGREES TO PERFORM THE SAME.

NAME OF CONTRACTOR | SIGNATURE | TYPED NAME AND TITLE | DATE SIGNED

[ ] If this box is marked, supplier must sign acceptance and return the following number of copies:

17. ACCOUNTING AND APPROPRIATION DATA/LOCAL USE

1731186.2720 000 67001 0 067001 2D 000000 47PX9183XXXX

18. ITEM NO.	19. SCHEDULE OF SUPPLIES/SERVICE	20. QUANTITY ORDERED/ ACCEPTED*	21. UNIT	22. UNIT PRICE	23. AMOUNT
	SEE ATTACHED SCHEDULE(S) ITEMS: 1				

*If quantity accepted by the Government is same as quantity ordered, indicate by X. If different, enter actual quantity accepted below quantity ordered & encircle

24. UNITED STATES OF AMERICA
Sally B. Seals
BY: E. T. COLE, JR. CONTRACTING/ORDERING OFFICER

25. TOTAL 1000.00

29. DIFFERENCES

26. QUANTITY IN COLUMN 20 HAS BEEN
[ ] INSPECTED [ ] RECEIVED [ ] ACCEPTED AND CONFORMS TO THE CONTRACT EXCEPT AS NOTED

27. SHIP. NO.

28. D.O.VOUCHER NO.

30. INITIALS

[ ] PARTIAL [ ] FINAL

32. PAID BY
1140

33. AMT VERIFIED CORRECT FOR

DATE | SIGNATURE OF AUTHORIZED GOVERNMENT REP.

36. I certify this account correct & proper for payment.

31. PAYMENT
[ ] COMPLETE
[ ] PARTIAL
[ ] FINAL

34. CHECK NUMBER

DATE | SIGNATURE AND TITLE OF CERTIFYING OFFICER

35. BILL OF LADING NO.

37. REC'D AT | 38. REC'D BY | 39. DATE REC'D | 40. TOTAL CTNRS | 41. S/P. ACCOUNT NUMBER | 42. S/R VOUCHER NO.

Previous editions are obsolete.

MKC ENTERPRISES INC

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT

FAR 52.222-40 SERVICE CONTRACT ACT OF 1965—CONTRACTS MAY 1989
OF $2500.00 OR LESS

FAR 52.247-34 F.O.B. DESTINATION JAN 1991

FOR DOD ADMINISTRATIVE USE ONLY.
REPORT OF PROPERTY RECEIVED. THE RECEIVING ACTIVITY IS REQUIRED TO SEND A REPORT OF PROPERTY RECEIVED (RPR) UTILIZING A DD250 OR DD1155 OR MEMORANDUM STATING THAT THE MATERIAL HAS BEEN RECEIVED (OR SERVICES HAVE BEEN RENDERED) AND ACCEPTED, TO: CONTRACTING DIVISION, BLDG. 1116, MCB, CAMP LEJEUNE, NC 28542, WITHIN 24 HOURS AFTER SUCH ACCEPTANCE.

THE SERVICES PROVIDED HEREIN WILL BE BILLED AS A FLAT RATE CHARGE. THE WORDS "FLAT RATE" MUST BE SHOWN ON THE INVOICE.

IMPORTANT NOTICE: INQUIRIES RELATING TO THIS ORDER SHALL BE ADDRESSED TO THE CONTRACT ADMINISTRATOR. IF YOUR COMPANY NAME BEGINS WITH: A OR E THRU J CONTACT SARAH SWALES
B OR K THRU O CONTACT SGT JOHN MOREHART
C OR P THRU U CONTACT CLARETHA W. DANCY
D OR V THRU Z CONTACT SGT ROBIN PAULIN
INVOICES FOR THIS ORDER MUST CITE BUYING BRANCH 1, AND THE APPLICABLE PURCHASE/DELIVERY ORDER NUMBER. INVOICES WILL BE RETURNED IF THE BUYING BRANCH AND ORDER NUMBER ARE NOT CITED ON THE INVOICE. TELEPHONE: (919) 451-3011.

0001	JB681	NITRATE	M9911631971140	1	LT	1000.0000	1000.00

PRI: 09

SERVICE: TRANSPORTATION AND DISPOSAL OF STRONTIUM NITRATE.
LOT INCLUDES: 2 EA LAB PAK/41 OZ EA
COST FOR EACH LAB PAK $500.00
ITEM TO BE PICKED UP BY VENDOR.
POC: SAMMY GWYNN
PHONE: 919-451-5063

LOCATION: LOT 140 ASH ST
MUST CALL BEFORE ARRIVAL
.
LOC: LOT 140 ASH ST
. CAMP LEJEUNE, N.C.
POC: SAMMY GWYNN 451-5063

(END PAGE)

###

Please print or type
(Form designed for use on elite (12-pitch) typewriter)

Form Approved. OMB No. 2050-0039. Expires 9-30-94

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: N C 6 1 7 0 0 2 2 5 8 0
Manifest Document No.: 9 1 4 2 9
2. Page 1 of 1
Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
MARINE CORP BASE - CAMP LEJUNE
CAMP LEJUNE, NC 28542
4. Generator's Phone (919) 451-5063

A. State Manifest Document Number: 91429
B. State Generator's ID: NC6170022580

5. Transporter 1 Company Name: MKC ENTERPRISES, INC.
6. US EPA ID Number: G A D 0 0 0 6 1 6 3 6 7
C. State Transporter's ID: GAD000616367
D. Transporter's Phone: (404) 457-1341

7. Transporter 2 Company Name:
8. US EPA ID Number:
E. State Transporter's ID:
F. Transporter's Phone:

9. Designated Facility Name and Site Address
MKC ENTERPRISES, INC.
5856 New Peachtree Rd
DORAVILLE, GA 30340
10. US EPA ID Number: G A D 0 0 0 6 1 6 3 6 7
G. State Facility's ID: GAD000616367
H. Facility's Phone: (404) 457-1341

	11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	HM	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.	WASTE OXIDIZING SUBSTANCES LIQUID N.O.S., 5.1, UN3139, PGIII (LAB PACK)	X	002	D F	Est. 00018	P	D001
b.							
c.							
d.							

J. Additional Descriptions for Materials Listed Above
A) M0371/LP 5.1

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
If spill occurs, refer to ER Guidebook: (provided in vehicle)
Guide #'s a) 35
24-Hour Emergency Response # (404) 457-1341

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; **OR**, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: JOHN E RIGGS
Signature:
Month Day Year: 09 17 93

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: MICHAEL J HODGSON
Signature:
Month Day Year: 09 17 93

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Month Day Year:

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: Steve Tinnemeier
Signature:
Month Day Year: 09 20 93

EPA Form 8700-22 (Rev. 9-92) Previous edition obsolete

7-BLC-M5 (Rev. 10-92)

ORIGINAL - RETURN TO GENERATOR

Recycle

DoD Hazardous Materials Information System
DoD 6050.5-LR
AS OF 01 AUG 88
For U.S. Government Use Only

National Stock Number	6850-00-F00-1203
Manufacturer's Cage	90227
Part No. Indicator	A
Part Number/Trade Name	FREON TF-WD 602

General Information

Safety Focal Point	F
Record No. for this Safety Entry	001
Total Entries-This Stock No.	1
Safety Data Review Date	18APR85
Item Name	TRICHLOROTRIFLUOROETHANE & WATER
Manufacturer's Name	E. I. DU PONT DE NEMOURS & COMPANY
Manufacturer's Emergency Phone	(302) 774-1000

Ingredients/Identity Information

Proprietary	YES
Ingredient Focal Point	F
Ingredient Sequence No.	01
NIOSH (RTECS) No.	VV9275000
Ingredient	WATER
Percent	6%
Proprietary	YES
Ingredient Focal Point	F
Ingredient Sequence No.	02
NIOSH (RTECS) No.	1001310SA
Ingredient	SURFACTANT
Percent	2.5%
Proprietary	YES
Ingredient Focal Point	F
Ingredient Sequence No.	03
NIOSH (RTECS) No.	1000056HL
Ingredient	HALOGENATED HYDROCARBON
Proprietary	YES
Ingredient Focal Point	F
Ingredient Sequence No.	04
NIOSH (RTECS) No.	KJ2975000
Ingredient	TRICHLOROTRIFLUOROETHANE

Physical/Chemical Characteristics

Appearance and Odor	COLORLESS-FAINT SOLVENT ODOR.
Boiling Point	112F
Vapor Pressure (MM Hg/70 F)	362
Vapor Density (Air=1)	5.5
Specific Gravity	1.49
Evaporation Rate and Reference	SLOWER THAN ETHER
Solubility in Water	EMULSION
Percent Volatiles by Volume	97.5

Fire and Explosion Hazard Data

G/Sgt. Wells

HMH 464

Hyd. Shop.

A. Had Poor Vent.

B. Will store Outside until Paint Lockers are installed

Flash Point	NONE
Lower Explosive Limit	NONE
Upper Explosive Limit	NONE
Extinguishing Media	NON-FLAMMABLE
Special Fire Fighting Procedures	NONE
Unusual Fire/Explosion Hazards	NONE

Reactivity Data

Stability	YES
Conditions to Avoid (Stability)	OPEN FLAMES OR HIGH TEMPERATURES.
Materials to Avoid	ALKALI OR ALKALINE EARTH METALS-POWDERED AL, ZINC, BERYLLIUM
Hazardous Decomposition Prod(s)	HYDROCHLORIC AND HYDROFLUORIC ACIDS-POSSIBLE PHOSGENE.
Hazardous Polymerization Occur	NO

Health Hazard Data

Signs/Symptons of Overexposure	LIGHT-HEADEDNESS/GIDDINESS/SHORTNESS OF BREATH/NARCOSIS/CARDIAC ARRHYTHMIAS AT HIGH CONCENTRATIONS
Emergency/First Aid Procedures	INHALATION: REMOVE TO FRESH AIR, CALL A PHYSICIAN. DO NOT GIVE EPINEPHRINE OR SIMILAR DRUGS. SKIN OR EYE CONTACT: FLUSH WITH WATER.

Precautions for Safe Handling and Use

Steps if Released/Spilled	VENTILATE AREA-EXPECIALLY LOW PLACES WHERE HEAVY VAPORS MIGHT COLLECT. REMOVE OPEN FMES. EVAPORATE OUTDOORS.
Waste Disposal Method	STORE CONTAINERS IN A CLEAN, DRY AREA.
Precautions-Handling/Storing	FOR FURTHER INFORMATION SEE FREON PRODUCTS BULLETINS FST-5E, S-16, S-30.
Other Precautions	

Control Measures

Respiratory Protection	USE AIR MASK IN HIGH CONCENTRATIONS.
Ventilation	WHEN LARGE AMOUNTS ARE RELEASED/ESPECIALLY IN LOW PLACES HANDLING LIQUID
Protective Gloves	WHEN HANDLING LIQUID
Eye Protection	
Supplemental Safety/Health Data	FREON PRODUCTS DIVISION/WILMINGTON, DELAWARE 19898.

correction fluid FP, 8,

DOD Hazardous Materials Information System
DoD 6050.5-LR
AS OF AUGUST 1992
For U.S. Government Use Only

FSC: 7510
NIIN: 010202806
Manufacturer's CAGE: 1A864
Part No. Indicator: A
Part Number/Trade Name: CORRECTION FLUID 0.6 OUNCE

General Information

Item Name: EMULSION WATER BASE
Manufacturer's Name: LIGHTHOUSE FOR THE BLIND
Manufacturer's Street: 10440 TRENTON AVENUE
Manufacturer's P. O. Box: N/K
Manufacturer's City: ST. LOUIS
Manufacturer's State: MO
Manufacturer's Country:
Manufacturer's Zip Code: 63132
Manufacturer's Emerg Ph #: (314) 423-4333
Manufacturer's Info Ph #: (314) 423-4333
Distributor/Vendor # 1:
Distributor/Vendor # 1 Cage:
Distributor/Vendor # 2:
Distributor/Vendor # 2 Cage:
Distributor/Vendor # 3:
Distributor/Vendor # 3 Cage:
Distributor/Vendor # 4:
Distributor/Vendor # 4 Cage:
Safety Data Action Code:
Safety Focal Point: F
Record No. For Safety Entry: 001
Tot Safety Entries This Stk#: 002
Status:
Date MSDS Prepared: 02JAN90
Safety Data Review Date: 13JUN91
Supply Item Manager:
MSDS Preparer's Name: EDWARD R. LANSER
Preparer's Company: LIGHTHOUSE FOR THE BLIND
Preparer's St Or P. O. Box: 10440 TRENTON AVENUE
Preparer's City: ST. LOUIS
Preparer's State: MO
Preparer's Zip Code: 63132
Other MSDS Number:
MSDS Serial Number: BKHTQ
Specification Number: A-A-212
Spec Type, Grade, Class: TYPE I
Hazard Characteristic Code:
Unit Of Issue:
Unit Of Issue Container Qty:
Type Of Container:
Net Unit Weight:
NRC/State License Number:
Net Explosive Weight:
Net Propellant Weight-Ammo:
Coast Guard Ammunition Code:

Ingredients/Identity Information

Proprietary: NO
Ingredient: PIGMENT
Ingredient Sequence Number: 01
Percent: 60%
Ingredient Action Code:
Ingredient Focal Point: F
NIOSH (RTECS) Number: 1000046PI
CAS Number: PIGMENT
OSHA PEL: N/K
ACGIH TLV: N/K
Other Recommended Limit: 10 MG/CUM (DUST)

Proprietary: NO
Ingredient: DEFOAMER
Ingredient Sequence Number: 02
Percent: 0.33%
Ingredient Action Code:
Ingredient Focal Point: F
NIOSH (RTECS) Number: 1000504DE
CAS Number: NONE
OSHA PEL: N/K
ACGIH TLV: N/K
Other Recommended Limit: N/K

Proprietary: NO
Ingredient: BIOCIDE
Ingredient Sequence Number: 03
Percent: 0.33%
Ingredient Action Code:
Ingredient Focal Point: F
NIOSH (RTECS) Number: 1002488BI
CAS Number: NONE
OSHA PEL: N/K
ACGIH TLV: N/K
Other Recommended Limit: N/K

Proprietary: NO
Ingredient: WETTING AGENT
Ingredient Sequence Number: 04
Percent: <2.05%
Ingredient Action Code:
Ingredient Focal Point: F
NIOSH (RTECS) Number: 1000366WA
CAS Number: NONE
OSHA PEL: N/K
ACGIH TLV: N/K
Other Recommended Limit: N/K

Proprietary: NO
Ingredient: COLORANT
Ingredient Sequence Number: 05
Percent: <2.05%
Ingredient Action Code:
Ingredient Focal Point: F

Percent: 0.02%
Ingredient Action Code:
Ingredient Focal Point: F
NIOSH (RTECS) Number: LP8925000
CAS Number: 50-00-0
OSHA PEL: 1 PPM/2 PPM STEL
ACGIH TLV: 1 PPM/2STEL,A2; 9192
Other Recommended Limit: N/K

Proprietary: NO
Ingredient: WATER, H2O
Ingredient Sequence Number: 11
Percent: 18.27%
Ingredient Action Code:
Ingredient Focal Point: F
NIOSH (RTECS) Number: ZC0110000
CAS Number: 7732-18-5
OSHA PEL: N/K
ACGIH TLV: N/K
Other Recommended Limit: N/K

Physical/Chemical Characteristics

Appearance And Odor: WHITE AMINE ODOR
Boiling Point: N/K
Melting Point: 32F
Vapor Pressure (MM Hg/70 F): N/K
Vapor Density (Air=1): N/K
Specific Gravity: 1.74
Decomposition Temperature: N/K
Evaporation Rate And Ref: (N-BU AC = 1): 1
Solubility In Water: COMPLETE
Percent Volatiles By Volume: 56%
Viscosity:
pH: 8
Radioactivity:
Form (Radioactive Matl):
Magnetism (Milligauss):
Corrosion Rate (IPY): N/K
Autoignition Temperature:

Fire and Explosion Hazard Data

Flash Point: N/K
Flash Point Method: N/K
Lower Explosive Limit: N/K
Upper Explosive Limit: N/K
Extinguishing Media: WATER OR CO2
Special Fire Fighting Proc: N/K
Unusual Fire And Expl Hazrds: N/K

Reactivity Data

Stability: YES
Cond To Avoid (Stability): EXTREME HEAT
Materials To Avoid: N/K
Hazardous Decomp Products: N/K

NIOSH (RTECS) Number: 1001827CO
CAS Number: NONE
OSHA PEL: N/K
ACGIH TLV: N/K
Other Recommended Limit: N/K

Proprietary: NO
Ingredient: BINDER
Ingredient Sequence Number: 06
Percent: 15%
Ingredient Action Code:
Ingredient Focal Point: F
NIOSH (RTECS) Number: 1003339BU
CAS Number: NONE
OSHA PEL: N/K
ACGIH TLV: N/K
Other Recommended Limit: N/K

Proprietary: NO
Ingredient: 2-AMINO-2-METHYL-1-PROPANOL
Ingredient Sequence Number: 07
Percent: 0.5%
Ingredient Action Code:
Ingredient Focal Point: F
NIOSH (RTECS) Number: UA5950000
CAS Number: 124-68-5
OSHA PEL: N/K
ACGIH TLV: N/K
Other Recommended Limit: N/K

Proprietary: NO
Ingredient: ETHYLENE GLYCOL (SARA III)
Ingredient Sequence Number: 08
Percent: 3%
Ingredient Action Code:
Ingredient Focal Point: F
NIOSH (RTECS) Number: KW2975000
CAS Number: 107-21-1
OSHA PEL: C 50 PPM
ACGIH TLV: C 50 PPM,VAPOR; 9192
Other Recommended Limit: 10 MG/CUM

Proprietary: NO
Ingredient: 2-BUTOXYETHANOL
Ingredient Sequence Number: 09
Percent: 0.5%
Ingredient Action Code:
Ingredient Focal Point: F
NIOSH (RTECS) Number: KJ8575000
CAS Number: 111-76-2
OSHA PEL: S, 25 PPM
ACGIH TLV: S, 25 PPM; 9192
Other Recommended Limit: 25 PPM (SKIN)

Proprietary: NO
Ingredient: FORMALDEHYDE (SARA III)
Ingredient Sequence Number: 10

Hazardous Poly Occur: NO
Conditions To Avoid (Poly): N/K

Health Hazard Data

LD50-LC50 Mixture: N/K
Route Of Entry - Inhalation: NO
Route Of Entry - Skin: YES
Route Of Entry - Ingestion: NO
Health Haz Acute And Chronic: SKIN/EYES: IRRITATION.
Carcinogenicity - NTP: YES
Carcinogenicity - IARC: YES
Carcinogenicity - OSHA: YES
Explanation Carcinogenicity: FORMALDEHYDE IS A SUSPECTED A2 CARCINOGEN BY ACGIH.
Signs/Symptoms Of Overexp: SKIN/EYES: IRRITATION.
Med Cond Aggravated By Exp: N/K
Emergency/First Aid Proc: EYES: FLUSH W/WATER FOR 15 MINS. SKIN: WASH THOROUGHLY W/SOAP & WATER. OBTAIN MEDICAL ATTENTION IN ALL CASES.

Precautions for Safe Handling and Use

Steps If Matl Released/Spill: WASH W/SOAP & WATER.
Neutralizing Agent: N/K
Waste Disposal Method: DISPOSE OF IN ACCORDANCE W/LOCAL, STATE, & FEDERAL REGULATIONS.
Precautions-Handling/Storing: AVOID EXTREME TEMPERATURES & CONTACT W/EYES. DON'T INGEST.
Other Precautions: N/K

Control Measures

Respiratory Protection: N/K
Ventilation: N/K
Protective Gloves: NOT NECESSARY UNDER NORMAL CONDITIONS
Eye Protection: NOT NECESSARY UNDER NORMAL CONDITIONS
Other Protective Equipment: N/K
Work Hygienic Practices: N/K
Suppl. Safety & Health Data: 14.46 LBS/GAL

Pine Oil

DOD Hazardous Materials Information System
DoD 6050.5-LR
AS OF AUGUST 1992
For U.S. Government Use Only

FSC: 6840
NIIN: 006877904
Manufacturer's CAGE: 1A862
Part No. Indicator: A
Part Number/Trade Name: O-D-1276,DETERGENT PINE OIL,GEN PURPOSE

General Information

Item Name: Pine Oil
Manufacturer's Name: LIGHTHOUSE FOR THE BLIND
Manufacturer's Street:
Manufacturer's P. O. Box:
Manufacturer's City:
Manufacturer's State:
Manufacturer's Country:
Manufacturer's Zip Code:
Manufacturer's Emerg Ph #: 713-527-9561
Manufacturer's Info Ph #:
Distributor/Vendor # 1:
Distributor/Vendor # 1 Cage:
Distributor/Vendor # 2:
Distributor/Vendor # 2 Cage:
Distributor/Vendor # 3:
Distributor/Vendor # 3 Cage:
Distributor/Vendor # 4:
Distributor/Vendor # 4 Cage:
Safety Data Action Code:
Safety Focal Point: N
Record No. For Safety Entry: 001
Tot Safety Entries This Stk#: 005
Status:
Date MSDS Prepared: INTERIM
Safety Data Review Date: 20AUG86
Supply Item Manager:
MSDS Preparer's Name:
Preparer's Company:
Preparer's St Or P. O. Box:
Preparer's City:
Preparer's State:
Preparer's Zip Code:
Other MSDS Number:
MSDS Serial Number: BFLSN
Specification Number: O-D-1276
Spec Type, Grade, Class:
Hazard Characteristic Code: N1
Unit Of Issue: BT
Unit Of Issue Container Qty: 1 QT
Type Of Container:
Net Unit Weight:
NRC/State License Number: N/A
Net Explosive Weight:
Net Propellant Weight-Ammo: N/A
Coast Guard Ammunition Code:

Health Hazard Data

LD50-LC50 Mixture:
Route Of Entry - Inhalation:
Route Of Entry - Skin:
Route Of Entry - Ingestion:
Health Haz Acute And Chronic:
Carcinogenicity - NTP:
Carcinogenicity - IARC:
Carcinogenicity - OSHA:
Explanation Carcinogenicity:
Signs/Symptoms Of Overexp: SLIGHT HLTH HAZ AS KIDNEY IRRIT, LOCAL IRRIT & CHRONIC SYSTEMIC.MOD HLTH HAZ IF INH, ABSORB;AS ALLRG
Med Cond Aggravated By Exp:
Emergency/First Aid Proc: SKIN:WASH THOROUGHLY W/WATER. EYES:WASH THOROUGHLY W/WATER.INGESTION:DO NOT INDUCE VOMITING. DRINK 2 OR 3 GLASSES OF MILK. CONTACT A MD.

Precautions for Safe Handling and Use

Steps If Matl Released/Spill: ELIMINATE IGNITION SOURCE, STOP SPILL AT ONCE, CONTAINS SPILL BY DIKE, ETC. PUMP INTO SALVAGE TANK, WASH SPILL ON FLOOR W/WATER.
Neutralizing Agent:
Waste Disposal Method: MFG RECM LIQUID INCINERATION, IF IN ACCORDANCE W/ FED, STATE & LOCAL CODES
Precautions-Handling/Storing: KEEP AWAY FROM EXTREME TEMPERATURE. KEEP AWAY FROM FLAMES. USE ONLY W/ADEQUATE VENTILATION.
Other Precautions: AVOID CONTACT W/OXIDIZING MATERIAL.

Control Measures

Respiratory Protection: AS NEEDED TO MAINTAN LEVELS BELOW TLV
Ventilation: RECOMMENDED
Protective Gloves: CHEM RESISTANT
Eye Protection: SAFETY GOGGLES
Other Protective Equipment: AS CONDITIONS DICTATE
Work Hygienic Practices:
Suppl. Safety & Health Data: ACCORDING TO "AN IDENT SYST FOR OCCUPATIONALLY HAZ MATERIALS,"RATING 2 INDICATES MODERATE HLTH HAZ:MINOR TEMP OR PERM INJURY;RATING 1 INDICATES SLIGHT HLTH HAZ:MINOR REVERSIBLE INJURY

Ingredients/Identity Information

Proprietary: NO
Ingredient: PINE OIL
Ingredient Sequence Number: 01
Percent:
Ingredient Action Code:
Ingredient Focal Point: N
NIOSH (RTECS) Number: TK5100000
CAS Number:
OSHA PEL:
ACGIH TLV: 100 PPM (MFG)
Other Recommended Limit:

Physical/Chemical Characteristics

Appearance And Odor: STRAW YELLOW, PINE ODOR
Boiling Point: 365F
Melting Point:
Vapor Pressure (MM Hg/70 F): 760
Vapor Density (Air=1):
Specific Gravity: 0.9555
Decomposition Temperature:
Evaporation Rate And Ref: >1.0 ETHER
Solubility In Water: COMPLETE
Percent Volatiles By Volume: 77.0
Viscosity:
pH:
Radioactivity:
Form (Radioactive Matl):
Magnetism (Milligauss):
Corrosion Rate (IPY):
Autoignition Temperature:

Fire and Explosion Hazard Data

Flash Point: 205F TCC
Flash Point Method:
Lower Explosive Limit:
Upper Explosive Limit:
Extinguishing Media: WATER, CO*2, FOAM, DRY CHEMICALS
Special Fire Fighting Proc:
Unusual Fire And Expl Hazrds:

Reactivity Data

Stability: YES
Cond To Avoid (Stability):
Materials To Avoid: AVOID EXPOSURE TO OXIDIZING MATERIALS
Hazardous Decomp Products:
Hazardous Poly Occur: NO
Conditions To Avoid (Poly):

Organization: Fire Prot. Div. Facility: Fire Prev. Sect. Point of Contact: E. L. Martin

NSN/MANUFACTURER	ADDRESS	PRODUCT USE	QUANTITY ON HAND	RATE OF USE
S C Johnson & Son Inc. 7930-01-053-7963	Racine, WI. 53403	Car Wax	2 CN	2 Per Year

Organization: Fire Prot. Div. Facility: Fire Prev. Sect. Point of Contact: E. L. Martin

NSN/MANUFACTURER	ADDRESS	PRODUCT USE	QUANTITY ON HAND	RATE OF USE
6850-00-973-9091 Penetrating Fluid	Chemscope Emy # 748-0526	Serviceing Fire Extg.	6 12 OZ CN	1 CN Per Month

Organization: Fire Prot. Div. Facility: Fire Prev. Sect. Point of Contact: E. L. Martin

NSN/MANUFACTURER	ADDRESS	PRODUCT USE	QUANTITY ON HAND	RATE OF USE
6840-00-721-6055 Aerosol room Deoderant	HySan Corp. Emy # 312-376-8900	Deoderant	1 CN	1 CN Per Year

Organization: Fire Prot. Div. Facility: Fire Prev. Div. Point of Contact: E. L. Martin

NSN/MANUFACTURER	ADDRESS	PRODUCT USE	QUANTITY ON HAND	RATE OF USE
7930-00-8804454 Compound	Continental Chenical Corp. Emy # 812-235-8035	Washing Veh. and Dishes	1 Gal.	1 Gal. Per. Year

Organization: Fire Prot. Div. Facility: Fire Prev. Sect. Point of Contact: E. L. Martin

NSN/MANUFACTURER	ADDRESS	PRODUCT USE	QUANTITY ON HAND	RATE OF USE
7930-00-184-9423 Glass Cleaner	Continental Labs. INC. Emy # 404-449-7588	Washing Windows	1 Gal.	1 Gal. Per. Year

Organization: Fire Prot. Div. Facility: Fire Prev. Sect. Point of Contact: E. L. Martin

NSN/MANUFACTURER	ADDRESS	PRODUCT USE	QUANTITY ON HAND	RATE OF USE
Octagon Process Inc. 6850-00-181-7940	Edgewater N.J. 07020	Antifreeze for Water Fire Extinguisher	55 Gal. Drum	2 DRUM Per Year

Organization: Fire Prot. Div. Facility: Fire Prev. Sect. Point of Contact: E. L. Martin

NSN/MANUFACTURER	ADDRESS	PRODUCT USE	QUANTITY ON HAND	RATE OF USE
Eberhard Feber Inc.	Wilkes-Barre, Pa.	Typing Correction Fluid	2 BT	2 BT Per Year

Organization: Fire Prot. Div. Facility: Fire Prev. Sect. Point of Contact: E. L. Martin

NSN/MANUFACTURER	ADDRESS	PRODUCT USE	QUANTITY ON HAND	RATE OF USE
Security Products Div.	P.O. Box 4073 Malibu, CA. 90265	Smoke Detector Tester	12 CN	1 CN per Month

Organization: Fire Prot. Div. Facility: Fire Prev. Sect. Point of Contact: E. L. Martin

NSN/MANUFACTURER	ADDRESS	PRODUCT USE	QUANTITY ON HAND	RATE OF USE
Elsco, International	4328 Damon Lane EL Cajon, CA. 92020 Ph. # 714-440-7232	Cleaner and Degreaser Blast OFF	1 Gal.	1 Gal, Per 5 Years

Organization: Fire Prot. Div. Facility: Fire Prev Sect. Point of Contact: E. L. Martin

NSN/MANUFACTURER	ADDRESS	PRODUCT USE	QUANTITY ON HAND	RATE OF USE
Bethlemim Apparatus Co. Inc. P/N 215-838-7034	Hellerstown Pa.	Used for As-504 Instrument Mercury	UNknow	UNKNOW

PAGE NR 2

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GLC019 B 7 * * * HAZARDOUS ITEM BASIC PUBLICATION * * *

N S N	FSCM	MGR	F P IND	PN IND	PART NUMBER/TRADE NAME	ACT CD	DATE	PAGE I
A 7930-01-075-0776	73820		N	A	BALLEY OVEN-GRILL CLEANER,P-C-1947 TYPE E 3	A	85228	

* * * * GENERAL INFORMATION * * * *

PROPRIETARY	MANUFACTURER	EMERGENCY TELE NO
YES	NATIONAL LABORATORIES	201-391-8500

ITEM NAME	UI	UI CONTAINER QTY	TYPE OF CONT	NET UNIT WT	MAG/MILGAUS	EXEMPTIOI
CLEANING COMPOUND OVEN						

AEROSOL PROPELLANT SPECIFICATION P-C-1947

RADIOACTIVITY	FORM	TR GP	NRC LIC NUMBER	CHEMICAL NAME	CHEMICAL FAMILY	FORMULA
			N/A			

* * * * * HAZARDOUS COMPONENTS * * * * *

NIOSH NO	CHEMICAL NAME	PCT	T L V

* * * * * * TRANSPORTATION DATA * * * * * *

DOT SHIPPING NAME: COMPOUND,CLEANING,LIQUID

CLASS: CORROSIVE MATERIAL LABEL: CORROSIVE MODE: ID NO: NA1760 RQ:

WATER SHIPPING NAME: CORROSIVE LIQUID,N.O.S.

CLASS: CORROSIVE MATERIAL LABEL: CORROSIVE UN NO: 1760 UN CLASS: 8 COM GP: DOT: YES IMCO

TARIFF 6-D SHIPPING: N/A REFER TO 49 CFR

CLASS: LABEL:

IATA SHIPPING NAME: CORROSIVE LIQUID,N.O.S.

CLASS: CORROSIVE MATERIAL LABEL: CORROSIVE IATA ARTICLE NO: 1760

AFR 71-4 SHIPPING NAME: COMPOUND,CLEANING,LIQUID

CLASS: CORROSIVE MATERIAL LABEL: CORROSIVE MMAC:

* * * * * * ADDITIONAL DATA * * * * * *

C 7

NSN	ACT CD	DATE	PAGE NR
7930-01-075-0776	A	84157	2

*** * * * HEALTH AND PHYSICAL PROPERTY DATA * * * ***

BOILING POINT	VAP DEN/AIR=1/	SOL IN H2O	FLASH POINT	VAP PRESS/MM HG/70 F/	TLV-MIXTURE	STORAGE CODE
		COMPLETE	>200F;93.3C -TOC			

APPEARANCE AND ODOR	LEL/PCT/	UEL/PCT/	SP GR	PCT VOLT BY VOL	EVAP RATE PER REFERENCE
CLEAR STRAW YELLOW LIQ;MILD ODOR			1.048		

EFFECTS OF OVEREXPOSURE

NET PROP WT-AMMO NEW LB

EYES:SEVERE BURNS. SKIN:PRIMARY IRRIT. INHAL:TOXIC. HARMFUL IF INGESTED.

STABLE	CONDITIONS TO AVOID	MATERIALS TO AVOID
		ACIDS;DO NOT USE ON PRINTED OR ALUMINUM SURFACES.

HAZ POLYMERIZATION OCCUR	CONDITIONS TO AVOID	AUTO IGN TEMP	VISCOSITY	CG AMMO CD

HAZARDOUS DECOMPOSITION PRODUCTS

*** * * * SAFETY STORAGE HANDLING AND FIRE FIGHTING PROCEDURES * * * ***

EXTINGUISHING MEDIA

SPECIAL FIRE FIGHTING PROCEDURES

UNUSUAL FIRE / EXPLOSION HAZARDS

PROTECTIVE GLOVES
RUBBER

EMERGENCY FIRST AID PROCEDURES

EYES:IMMEDIATELY FLUSH W/ WATER FOR B LEAST 15 MIN. CALL MD. EXTERNAL:FLUSH W/RUNNING H=20, THEN VINEGAR. INTERNAL:DRINK LARG
E QUANTITIES OF CITRUS JUICE FOLLOWED BY OLIVE OIL, COOKING OIL OR BUTTER. DO NOT INDUCE VOMIT. CALL MD IMMEDIATELY.

TYPE OF RESPIRATORY PROTECTION	VENTILATION
N/A MFR	RECOMMENDED TO AVOID BREATHING FUMES.

EYE PROTECTION	OTHER PROTECTIVE EQUIPMENT	HANDLING / STORAGE PRECAUTIONS
EYE GLASSES OR GOGGLES.		CORROSIVE PRODUCT.

*** * * * SPILL AND LEAK PROCEDURES * * * ***

SPILL AND LEAK CONTROL

WASTE ELIMINATION

MFR STATES:PRODUCT IS 100 PERCENT BIODEGRADABLE.DISPOSAL METHOD MUST BE IAW FEDERAL, STATE & LOCAL CODES.

OTHER PRECAUTIONS

SUPPLEMENTAL DATA

AVOID EYE & SKIN CONTACT. AVOID INHALING FUMES. AVOID CONTAMINAT
ION OF FOODS. CONTAINER:1 GAL CAN. VISCOCITY AT 77F IS 100 CPS.
PH OF CONC=14.

GLC019 D 7 * * * HAZARDOUS ITEM BASIC PUBLICATION * * *

NSN	FSCM	MGR	F P IND	PN IND	PART NUMBER/TRADE NAME	ACT CD	DATE	PAGE NR
7930-01-075-0776	85884		N	A	SOILAX GREASE CUTTER		84177	1

*** * * * GENERAL INFORMATION * * * ***

PROPRIETARY NO	MANUFACTURER	EMERGENCY TELE NO
	ECONOMICS LABORATORY,INC	612-293-2233

ITEM NAME	UI	UI CONTAINER QTY	TYPE OF CONT	NET UNIT WT	MAG/MILGAUS	EXEMPTION NO
CLEANING COMPOUND,OVEN						

AEROSOL PROPELLANT — SPECIFICATION

RADIOACTIVITY	FORM	TR GP	NRC LIC NUMBER	CHEMICAL NAME	CHEMICAL FAMILY	FORMULA
			N/A			

*** * * * * HAZARDOUS COMPONENTS * * * * ***

NIOSH NO	CHEMICAL NAME	PCT	T L V
WB4900000	SODIUM HYDROXIDE	3.5	C,2 MG/CUM
KJ8575000	BUTYL CELLOSOLVE (2-BUTOXY ETHANOL)	10	S,25 PPM

*** * * * * * TRANSPORTATION DATA * * * * * ***

DOT SHIPPING NAME: COMPOUND,CLEANING,LIQUID

CLASS: CORROSIVE MATERIAL LABEL: CORROSIVE MODE: ID NO: N/A1760 RQ:

WATER SHIPPING NAME: CORROSIVE LIQUIDS,N.O.S.

CLASS: CORROSIVE MATERIAL LABEL: CORROSIVE UN NO: 1760 UN CLASS: 8 COM GP: DOT: YES IMCO YES

TARIFF 6-D SHIPPING: N/A REFER TO 49 CFR

CLASS: LABEL:

IATA SHIPPING NAME: CORROSIVE LIQUIDS,N.O.S.

CLASS: CORROSIVE MATERIAL LABEL: CORROSIVE IATA ARTICLE NO: 1760

AFR 71-4 SHIPPING NAME: COMPOUND,CLEANING,LIQUID

CLASS: CORROSIVE MATERIAL LABEL: CORROSIVE MMAC:

*** * * * * * ADDITIONAL DATA * * * * * ***

E 7

N S N

ACT CD DATE PAGE NR

7930-01-075-0776 * * * * HEALTH AND PHYSICAL PROPERTY DATA * * * * 84159 2

BOILING POINT >212F/100C | VAP DEN/AIR=1/ | SOL IN H2O COMPLETE | FLASH POINT NON-FLAMMABLE | VAP PRESS/MM HG/70 F/ | TLV-MIXTURE | STORAGE CODE

APPEARANCE AND ODOR
CLEAR YELLOW ORANGE LIQUID,SLIGHT GLYCOL ETH ODOR.

LEL/PCT/ | UEL/PCT/ | SP GR 1.037 | PCT VOLT BY VOL >85 | EVAP RATE PER REFERENCE

EFFECTS OF OVEREXPOSURE
EYE/SKIN: IRRIT,BURNS. VAPORS: HARMFUL. INGESTION: HARMFUL

NET PROP WT-AMMO N/A | NEW LB

STABLE
YES

CONDITIONS TO AVOID

MATERIALS TO AVOID
DO NOT MIX WITH ANYTHING BUT WATER.

HAZ POLYMERIZATION OCCUR
NO

CONDITIONS TO AVOID | AUTO IGN TEMP | VISCOSITY | CG AMMO CD

HAZARDOUS DECOMPOSITION PRODUCTS
OXIDES OF CARBON

* * * * SAFETY STORAGE HANDLING AND FIRE FIGHTING PROCEDURES * * * *

EXTINGUISHING MEDIA
ALL RECOGNIZED METHODS ACCEPTABLE

SPECIAL FIRE FIGHTING PROCEDURES

UNUSUAL FIRE / EXPLOSION HAZARDS

PROTECTIVE GLOVES
RUBBER

EMERGENCY FIRST AID PROCEDURES
EYE: FLUSH WITH WATER 15 MINUTES. SKIN: FLUSH WITH WATER 15 MINUTES. INGESTION: DO NOT INDUCE VOMITING,DRINK MILK OR MILK OF MAGNESIA THEN PLENTY OF WATER,GET MEDICAL ATTN. INHALATION: MOVE TO FRESH AIR.

TYPE OF RESPIRATORY PROTECTION
NIOSH/MSHA APPROVED RESP DEVICE IN ACCORD WITH EXPOSURE OF CONCERN.

LOCAL/MECHANICAL

VENTILATION

EYE PROTECTION
CHEM GOGGLES
F VAPORS OR MIST.

OTHER PROTECTIVE EQUIPMENT

HANDLING / STORAGE PRECAUTIONS
KEEP FROM FREEZING. AVOID INHALATION O

* * * * SPILL AND LEAK PROCEDURES * * * *

SPILL AND LEAK CONTROL
MOP UP SPILL-WASH AREA WITH WATER.

WASTE ELIMINATION
BY METHODS CONSISTENT WITH LOCAL,STATE AND FEDERAL REGULATIONS.

OTHER PRECAUTIONS

SUPPLEMENTAL DATA

CONTAINER SIZE: 1 GAL BOTTLE.

GLC019 F 7

* * * HAZARDOUS ITEM BASIC PUBLICATION * * *

NSN	FSCM	MGR	F P IND	PN IND	PART NUMBER/TRADE NAME	ACT CD	DATE	PAGE NR
7930-01-075-0776	86938	GSA	G	A	O.V. CLEANER		83234	1

* * * * GENERAL INFORMATION * * * *

PROPRIETARY NO	MANUFACTURER	EMERGENCY TELE NO
	SELIG CHEM INDUSTRIES	404-691-9220

ITEM NAME	UI	UI CONTAINER QTY	TYPE OF CONT	NET UNIT WT	MAG/MILGAUS	EXEMPTION NO
CLEANING COMPOUND, OVEN	GL	1 GALLON	BOTTLE			

AEROSOL PROPELLANT

SPECIFICATION
CID A-A-7A

RADIOACTIVITY	FORM	TR GP	NRC LIC NUMBER	CHEMICAL NAME	CHEMICAL FAMILY	FORMULA

* * * * * HAZARDOUS COMPONENTS * * * * *

NIOSH NO	CHEMICAL NAME	PCT	T L V
WB4900000	SODIUM HYDROXIDE	9	
WC1400000	SODIUM METASILICATE	3	

* * * * * * TRANSPORTATION DATA * * * * * *

DOT SHIPPING NAME: COMPOUND, CLEANING, LIQUID (CONTAINING SODIUM HYDROXIDE)

CLASS: CORROSIVE MATERIAL LABEL: CORROSIVE MODE: ID NO: NA1760 RQ:

WATER SHIPPING NAME:

CLASS: LABEL: UN NO: UN CLASS: COM GP: DOT: IMCO

TARIFF 6-D SHIPPING:

CLASS: LABEL:

IATA SHIPPING NAME:

CLASS: LABEL: IATA ARTICLE NO:

AFR 71-4 SHIPPING NAME:

CLASS: LABEL: MMAC:

* * * * * * ADDITIONAL DATA * * * * * *

DOT 173.245(7) APPLIES.

G 7

NSN

ACT CD DATE PAGE NR

7930-01-075-0776 * * * * HEALTH AND PHYSICAL PROPERTY DATA * * * * 83234 2

BOILING POINT 210 F | VAP DEN/AIR=1/ | SOL IN H20 COMPLETE | FLASH POINT NONE | VAP PRESS/MM HG/70 F/ | TLV-MIXTURE 2 MG/ICU METER | STORAGE CODE

APPEARANCE AND ODOR
CREAMY-WHITE SOFT PAST-NO ODOR.

LEL/PCT/ | UEL/PCT/ | SP GR 1.15 | PCT VOLT BY VOL 80 | EVAP RATE PER REFERENCE

EFFECTS OF OVEREXPOSURE
POSSIBLE IRRITATION OR BURNS TO SKIN & EYES ON CONTACT.

NET PROP WT-AMMO | NEW LB

STABLE
YES

CONDITIONS TO AVOID

MATERIALS TO AVOID

HAZ POLYMERIZATION OCCUR
NO

CONDITIONS TO AVOID

AUTO IGN TEMP | VISCOSITY | CG AMMO CD

HAZARDOUS DECOMPOSITION PRODUCTS

* * * * SAFETY STORAGE HANDLING AND FIRE FIGHTING PROCEDURES * * * *

EXTINGUISHING MEDIA

SPECIAL FIRE FIGHTING PROCEDURES

UNUSUAL FIRE / EXPLOSION HAZARDS

PROTECTIVE GLOVES
RUBBER GLOVES

EMERGENCY FIRST AID PROCEDURES
FOR EYES, IRRIGATE EYES W/WATER F/15 MIN. FOR SKIN, WASH CONTAMINATED AREAS OF BODY W/SOAP & WATER. FOR INGESTION, GIVE CITR US DRINK OR VINEGAR W/LG AMTS OF WATER.GIVE MEDICAL ATTENTION.

TYPE OF RESPIRATORY PROTECTION
ADEQUATE VENTILATION IS USUALLY ADEQUATE.

VENTILATION
MECHANICAL-ACCEPTABLE

EYE PROTECTION
GOGGLES OR FACE SHIELD

OTHER PROTECTIVE EQUIPMENT

HANDLING / STORAGE PRECAUTIONS

* * * * SPILL AND LEAK PROCEDURES * * * *

SPILL AND LEAK CONTROL
HOSE AREA WITH WATER

WASTE ELIMINATION
SUMP TANK OR RINSE DOWN, DRAIN W/ PLENTY OF WATER.

OTHER PRECAUTIONS

SUPPLEMENTAL DATA

HAZARDOUS MATERIAL INVENTORY SHEET

10-7-86

Organization: FACILITIES DEPT. FIRE PROTECTION DIV. Facility: FIRE STATION NO. 1 BLDG AS-502 Point of Contact: CAPT. HUMPHREY CAPT. VENUE PHONE # 451-6670

NSN/MANUFACTURER	ADDRESS	PRODUCT USE	QUANTITY ON HAND	RATE OF USE
6320-00-184-9452	GIBCO LABORATORIES MADISON WISCONSIN 53713	FOR REMOVING GREASE BUILDUP	6 BOTTLES	1 BOTTLE PER MONTH
GIBCO LABORATORIES GIBCO DIVISION DEXTER CORPORATION CAT. #52650	PHONE # 919 462-3124			
		USED DAILY FOR ONE HOUR PER DAY MIXED WITH WATER		
		PERSONAL PROTECTIVE EQUIP USED WHEN WORKING WITH		AS NEEDED (GLOVES)
		SHELF LIFE 10 YEARS		
		DISPOSED OF ~~BY~~ THROUGH NORMAL USE		
	"SAMPLE"			

NOTE: AN INVENTORY SHEET MUST BE FILLED OUT FOR EACH MANUFACTURER. MANY NSN'S HAVE SEVERAL MANUFACTURERS.

I 6 • • • HAZARDOUS ITEM QUARTERLY CHANGES • • •

NSN	FSCM	MGR	F P IND	PN IND	PART NUMBER/TRADE NAME	ACT CD	DATE	PAGE NR
6850-00-401-7912	05732	CX	D	A	MAGIC LENS CLEANING & ANTI-FOGGING FLUID		84024	

• • • • GENERAL INFORMATION • • • •

PROPRIETARY NO

MANUFACTURER: THE SILICONE PAPER CO. OF AMERICA, INC.

EMERGENCY TELE NO: 201-469-2200

ITEM NAME: CLEANING COMPOUND,OPTICAL LENS

UI CN	UI CONTAINER QTY	TYPE OF CONT	NET UNIT WT	MAG/MILGAUS	EXEMPTION
	10 OZ	AEROSOL			

AEROSOL PROPELLANT: ISOBUTANE/PROPANE(LESS THAN 1 WT% OF TOTAL CONTENTS,PER MFG)

SPECIFICATION

RADIOACTIVITY	FORM	TR GP	NRC LIC NUMBER	CHEMICAL NAME	CHEMICAL FAMILY	FORMULA
				NOT A SINGLE CHEMICAL	ALCOHOL-WATER MIXTURE	MIXTURE

• • • • • HAZARDOUS COMPONENTS • • • • •

NIOSH NO	CHEMICAL NAME	PCT	T L V
NT8050000	ISOPROPYL ALCOHOL(C.A.S.NO.67-63-0)	<26	400 PPM
MN9275000	HEXANE (C.A.S.NO.110-54-3)	<1	50 PPM
MA8050000	GLYCERINE (C.A.S.NO.56-81-5)	UNK	5 MG/CUM(MIST
WC5600000	SODIUM NITRATE(C.A.S.NO.7631-99-4)	<1	UNK
TZ4300000	ISOBUTANE/PROPANE(PROPELLANT):REMAINING INGRED LISTED UNDER P/N 2ND B,THIS NSN,MFG	<1	UNK

• • • • • • TRANSPORTATION DATA • • • • • •

DOT SHIPPING NAME: CONSUMER COMMODITY

CLASS: ORM-D LABEL: NONE MODE: ID NO: N/A RQ:

WATER SHIPPING NAME: AEROSOLS DISPENSERS

CLASS: MISCELLANEOUS DANGEROUS LABEL: NONE UN NO: 1950 UN CLASS: 9 COM GP: DOT: YES IMCO YE

TARIFF 6-D SHIPPING: N/A,REFER TO 49 CFR

CLASS: LABEL:

IATA SHIPPING NAME: AEROSOLS,NON-FLAMMABLE,N.O.S.

CLASS: NON FLAMMABLE GAS LABEL: NON FLAMMABLE GAS IATA ARTICLE NO: 1950

AFR 71-4 SHIPPING NAME: COMPRESSED GAS N.O.S.

CLASS: NON FLAMMABLE GAS LABEL: NON FLAMMABLE GAS RMAC:

• • • • • • ADDITIONAL DATA • • • • • •

AEROSOL CANS:DO NOT STORE ABOVE 120F OR IN DIRECT SUNLIGHT.DO NOT PUNCTURE OR INCINERATE.SEE OTHER INGRED UNDER P/N B,THIS NSN.MF SPECIFIED IMO AND DOT SHIPPING NAME.

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GLC019 D11 * * * HAZARDOUS ITEM BASIC PUBLICATION * * *

NSN	FSCM	MGR	F P IND	PN IND	PART NUMBER/TRADE NAME	ACT CD	DATE	PAGE NR
8520-00-531-6484	97845		N	A	LISA, ESTER SOAP		81083	1

* * * * GENERAL INFORMATION * * * *

PROPRIETARY NO

MANUFACTURER
STAHL SOAP CORPORATION

EMERGENCY TELE NO
(212)497-0070

ITEM NAME	UI	UI CONTAINER QTY	TYPE OF CONT	NET UNIT WT	MAG/MILGAUS	EXEMPTION NO
	BX					

AEROSOL PROPELLANT

SPECIFICATION

RADIOACTIVITY	FORM	TR CD	NRC LIC NUMBER	CHEMICAL NAME	CHEMICAL FAMILY	FORMULA
			N/A			

* * * * * HAZARDOUS COMPONENTS * * * * *

NIOSH NO	CHEMICAL NAME	PCT	T L V
10006405E	SODIUM ESTER OF MIXED FATTY ACIDS		

* * * * * * TRANSPORTATION DATA * * * * * *

DOT SHIPPING NAME: N/A

CLASS: LABEL: MODE: ID NO: RQ:

WATER SHIPPING NAME: N/A

CLASS: LABEL: UN NO: UN CLASS: COM CD: DOT: INCO

TARIFF 6-D SHIPPING: N/A

CLASS: LABEL:

IATA SHIPPING NAME: N/A

CLASS: LABEL: IATA ARTICLE NO:

AFR 71-4 SHIPPING NAME: N/A

CLASS: LABEL: MMAC:

* * * * * * ADDITIONAL DATA * * * * * *

NOT REGULATED FOR SHIPPING EA. BX. CONTAINS 100 5 OZ. CAKES

E11

N S N

8520-00-531-6484

ACT CD DATE PAGE NR

80297 2

* * * * HEALTH AND PHYSICAL PROPERTY DATA * * * *

BOILING POINT | VAP DEN/AIR=1/ | SOL IN H20 | FLASH POINT | VAP PRESS/MM HG/70 F/ | TLV-MIXTURE | STORAGE CODE

COMPLETE | N/A

APPEARANCE AND ODOR

WHITE SOLID, MILDLY PERFUMED

LEL/PCT/ | UEL/PCT/ | SP GR | PCT VOLT BY VOL | EVAP RATE PER REFERENCE

0.92 | 0

EFFECTS OF OVEREXPOSURE

EYE IRITATION POSSIBLE.

NET PROP WT-AMMO | NEW LB

N/A

STABLE

YES

CONDITIONS TO AVOID

NON

MATERIALS TO AVOID

HAZ POLYMERIZATION OCCUR

NO

CONDITIONS TO AVOID

AUTO IGN TEMP | VISCOSITY | CG AMMO CD

HAZARDOUS DECOMPOSITION PRODUCTS

* * * * SAFETY STORAGE HANDLING AND FIRE FIGHTING PROCEDURES * * * *

EXTINGUISHING MEDIA

WATER, FOAM, CO=2, DRY CHEMICAL

SPECIAL FIRE FIGHTING PROCEDURES

NONE

UNUSUAL FIRE / EXPLOSION HAZARDS

NONE

PROTECTIVE GLOVES

NONE

EMERGENCY FIRST AID PROCEDURES

IF EYES IRRITATED FLUSH WITH WATER FOR 15 MINS.J

TYPE OF RESPIRATORY PROTECTION

NONE

VENTILATION

N/A

EYE PROTECTION

AVOID EYE CONTACT

OTHER PROTECTIVE EQUIPMENT

NONE

HANDLING / STORAGE PRECAUTIONS

NONE

* * * * SPILL AND LEAK PROCEDURES * * * *

SPILL AND LEAK CONTROL

RETURN TO CONTAINER

WASTE ELIMINATION

DISPOSE IN ACCORDANCE W/LOCAL, STATE & FEDERAL CODES.

OTHER PRECAUTIONS

SUPPLEMENTAL DATA

NONE

GLC019 612 * * * HAZARDOUS ITEM BASIC PUBLICATION * * *

NSN	FSCM	MGR	F P IND	PN IND	PART NUMBER/TRADE NAME	ACT CD	DATE	PAGE NR
8010-00-935-6609	33333		N	A	L-95A-66 ACRYLIC LACQUER,WHITE (17875)		83046	1

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*** * * * GENERAL INFORMATION * * * ***

PROPRIETARY NO

MANUFACTURER: KOPPERS CO, INC

EMERGENCY TELE NO: 213-726-8666

ITEM NAME	UI	UI CONTAINER QTY	TYPE OF CONT	NET UNIT WT	MAG/MILGAUS	EXEMPTION NO
AEROSOL PROPELLANT	CN	16 OZ				

SPECIFICATION: MIL-L-81352 (17875)

RADIOACTIVITY	FORM	TR GP	NRC LIC NUMBER	CHEMICAL NAME	CHEMICAL FAMILY	FORMULA
			N/A	NOT A SINGLE CHEMICAL	ACRYLIC	

*** * * * * HAZARDOUS COMPONENTS * * * * ***

NIOSH NO	CHEMICAL NAME	PCT	T L V
EO1400000	BUTYL ALCOHOL	3.00	8, 50 PPM
GW1050000	CYCLOHEXANONE	1.70	50 PPM
KK8225000	CELLOSOLVE ACETATE (ALSO: 2-ETHOXYETHANOL ACETATE)	8.70	8,100 PPM
ZE2100000	XYLOL (ALSO: XYLENE)	2.70	8, 100 PPM
XS5250000	TOLUOL (ALSO:TOLUENE)	1.10	8,100 PPM

*** * * * * * TRANSPORTATION DATA * * * * * ***

DOT SHIPPING NAME: PAINT,ENAMEL,LACQUER,STAIN,SHELLAC OR VARNISH

CLASS: FLAMMABLE LIQUID LABEL: FLAMMABLE LIQUID MODE: ID NO: RQ:

WATER SHIPPING NAME: PAINTS,ENAMELS,LACQUERS,SHELLAC STAINS,VARNISH

CLASS: FLAMMABLE LIQUID LABEL: FLAMMABLE LIQUID UN NO: 1263 UN CLASS: 3.2 COM GP: DOT: YES IMCO YES

TARIFF 6-D SHIPPING: PAINT,ENAMEL,LACQUER,STAIN,SHELLAC,OR VARNISH,LIQUD

CLASS: FLAMMABLE LIQUID LABEL: FLAMMABLE LIQUID

IATA SHIPPING NAME: PAINT,ENAMEL OR LACQUER OR STAIN OR SHELLAC OR VARNISH,LIQUID

CLASS: FLAMMABLE LIQUID LABEL: FLAMMABLE LIQUID IATA ARTICLE NO: 1263

AFR 71-4 SHIPPING NAME: PAINT,ENAMEL,LACQUER,STAIN,SHELLAC OR VARNISH,LIQUID

CLASS: FLAMMABLE LIQUID LABEL: FLAMMABLE LIQUID MMAC:

*** * * * * * ADDITIONAL DATA * * * * * ***

H12

N S N

	ACT CD	DATE	PAGE NR
8010-00-935-6609		81021	2

*** * * * HEALTH AND PHYSICAL PROPERTY DATA * * * ***

BOILING POINT	VAP DEN/AIR=1/	SOL IN H2O	FLASH POINT	VAP PRESS/MM HG/70 F/	TLV-MIXTURE	STORAGE CODE
		SLIGHT	23F TCC		50 PPM - MF6	

APPEARANCE AND ODOR	LEL/PCT/	UEL/PCT/	SP GR	PCT VOLT BY VOL	EVAP RATE PER REFERENCE
WHITE COLORED LIQUID, STRONG SOLVENT ODOR	1.0	11.2		70.6	MODERATELY FAST

EFFECTS OF OVEREXPOSURE

IRRIT TO EYES, NOSE & THROAT FROM VAPORS AT OR ABOVE 50 PPM. HIGHER CONCENTRATIONS: DROW, DIZ, COMA

NET PROP WT-AMMO: N/A

NEW LB

STABLE	CONDITIONS TO AVOID	MATERIALS TO AVOID
YES		

HAZ POLYMERIZATION OCCUR	CONDITIONS TO AVOID	AUTO IGN TEMP	VISCOSITY	CG AMMO CD
NO				

HAZARDOUS DECOMPOSITION PRODUCTS

*** * * * SAFETY STORAGE HANDLING AND FIRE FIGHTING PROCEDURES * * * ***

EXTINGUISHING MEDIA

WATER FOG, FOAM, DRY CHEMICAL OR CO*2

SPECIAL FIRE FIGHTING PROCEDURES

COOL CLOSED CONTAINERS W/WATER. AIR-SUPPLY EQUIP CL AREA.

UNUSUAL FIRE / EXPLOSION HAZARDS

KEEP AWAY FROM HEAT, SPARKS AND OPEN FLAMES.

PROTECTIVE GLOVES: RUBBER

EMERGENCY FIRST AID PROCEDURES

INH: REMOVE TO FRESH AIR. IF NOT BREATHING; ARTIF RESPIR PREFERABLY MOUTH-TO-MOUTH, CALL MD. EYES: FLUSH W/WATER & CONTACT MD . SKIN: WASH THOROUGHLY W/SOAP & WATER. WASH CLOTHING BEFORE REUSE. INGEST: CALL MD; NO INDUCED VOMIT!

TYPE OF RESPIRATORY PROTECTION

ORGANIC CANISTER IF OXYGEN CONTENT ADEQUATE & VAPOR CONCENT <2%.

VENTILATION

ADEQUATE TO STAY UNDER TLV LIMIT

EYE PROTECTION

GOGGLES

OTHER PROTECTIVE EQUIPMENT

AIR SUPPLIED FACE MASKS ALSO ADEQUATE FOR RESPIR PROTECTION

HANDLING / STORAGE PRECAUTIONS

KEEP CONTAINERS CLOSED AND UPRIGHT TO PREVENT LEAKAGE. AVOID FLAMES,OPEN LIGHTS,WELDING,SMOKING,SPARKS,ETC.

*** * * * SPILL AND LEAK PROCEDURES * * * ***

SPILL AND LEAK CONTROL

RECOVER ALL POSSIBLE, THEN WIPE UP W/RAGS, SAWDUST, ETC.

WASTE ELIMINATION

DISPOSE OF IN ACCORDANCE W/FED, STATE, LOCAL REGULATIONS.

OTHER PRECAUTIONS

MAINTAIN GOOD PERSONAL HYGIENE. DO NOT USE IN CONFINED AREAS,TANK OR PIT WITHOUT ADEQUATE VENTILATION.

SUPPLEMENTAL DATA

HAZARDOUS INGREDIENTS CONT: METHYL ETHYL KETONE; WT % 26.9, TLV 200 PPM, NIOSH-6 EL6475000. N-PROPYL ACETATE; WT % 10.7, TLV 200 PPM, NIOSH-7 AJ3675000. WT/GAL IS 9.1 LBS.

GLC019 I12 * * * HAZARDOUS ITEM BASIC PUBLICATION * * *

N S N	FSCM	MGR	F P IND	PN IND	PART NUMBER/TRADE NAME	ACT CD	DATE	PAGE NR
8010-00-935-6609	91794	GSA	G	A	IB NO 2611		80071	1

* * * * GENERAL INFORMATION * * * *

PROPRIETARY NO

MANUFACTURER: ILLINOIS BRONZE POWDER AND PAINT COMPANY

EMERGENCY TELE NO: 312-438-8201

ITEM NAME	UI CN	UI CONTAINER QTY PT	TYPE OF CONT	NET UNIT WT	MAG/MILGAUS	EXEMPTION NO
ACRYLIC LACQUER AEROSOL			AEROSOL			

AEROSOL PROPELLANT

SPECIFICATION: FSS-PD

RADIOACTIVITY	FORM	TR CP	NRC LIC NUMBER	CHEMICAL NAME	CHEMICAL FAMILY	FORMULA

* * * * * HAZARDOUS COMPONENTS * * * * *

NIOSH NO	CHEMICAL NAME	PCT	T L V
PA8050000	METHYLENE CHLORIDE	33.3	250 PPM
XS5250000	TOLUENE	22.2	100 PPM
KK8225000	CELLOSOLVE ACETATE	2.6	200 PPM

* * * * * * TRANSPORTATION DATA * * * * * *

DOT SHIPPING NAME: FLAMMABLE COMPRESSED GAS

CLASS: LABEL: NONE MODE: ID NO: RQ:

WATER SHIPPING NAME:

CLASS: LABEL: UN NO: UN CLASS: CON GP: DOT: INCO

TARIFF 6-D SHIPPING:

CLASS: LABEL:

IATA SHIPPING NAME:

CLASS: LABEL: IATA ARTICLE NO:

AFR 71-4 SHIPPING NAME:

CLASS: LABEL: NMAC:

* * * * * * ADDITIONAL DATA * * * * * *

J12

N S N	ACT CD	DATE	PAGE NR
8010-00-935-6609		80071	2

* * * * HEALTH AND PHYSICAL PROPERTY DATA * * * *

BOILING POINT	VAP DEN/AIR=1/	SOL IN H2O	FLASH POINT	VAP PRESS/MM HG/70 F/	TLV-MIXTURE	STORAGE CODE
42-391F			-40F,-40C		SEE SECTION II	

APPEARANCE AND ODOR	LEL/PCT/	UEL/PCT/	SP GR	PCT VOLT BY VOL	EVAP RATE PER REFERENCE
	1.3%			89	

EFFECTS OF OVEREXPOSURE

INHALATION-ANESTHETIC;IRRITATION OF RESPIRATORY TRACT;DIZZINESS.SKIN OR EYE-PRIMARY IRRITATION

NET PROP WT-AMMO NEW LB

STABLE	CONDITIONS TO AVOID	ATERIALS TO AVOID
YES		

HAZ POLYMERIZATION OCCUR	CONDITIONS TO AVOID	AUTO IGN TEMP	VISCOSITY	CG AMMO CD
NO				

HAZARDOUS DECOMPOSITION PRODUCTS

HCL,CO,PHOSGENE

* * * * SAFETY STORAGE HANDLING AND FIRE FIGHTING PROCEDURES * * * *

EXTINGUISHING MEDIA

NFPA CLASS B EXTINGUISHERS

SPECIAL FIRE FIGHTING PROCEDURES

WATER TO COOL CONTAINERS.WEAR GOGGLES AND BREATHING APPARATU

UNUSUAL FIRE / EXPLOSION HAZARDS

CANS WILL RUPTURE AT 190F AND DISCHARGE FLAMMABLE CONTENTS

PROTECTIVE GLOVES

NONE

EMERGENCY FIRST AID PROCEDURES

FUMES-REMOVE FROM EXPOSURE.MOVE TO FRESH AIR.EYES-FLUSH WITH LARGE AMOUNTS OF WATER FOR AT LEAST 15 MIN. CALL PHYSICIAN. SKIN -WIPE OFF WITH TOWEL.REMOVE REMAINDER WITH MINERAL SPIRITS OR LACQUER REMOVER. WASH WITH SOAP & WATER

TYPE OF RESPIRATORY PROTECTION

NONE FOR CASUAL USE.

VENTILATION

DILUTION OR EXHAUST TO KEEP BELOW TLV

EYE PROTECTION

NO SPECIAL REQUIRED

OTHER PROTECTIVE EQUIPMENT

HANDLING / STORAGE PRECAUTIONS

DO NOT STORE ABOVE 120F.STORE LARGE QU ANTITIES IN BUILDINGS DESIGNED AND PROTECTED FOR STORAGE OF NFPA CLASS 1A FLAMMABLE LIQUIDS

* * * * SPILL AND LEAK PROCEDURES * * * *

SPILL AND LEAK CONTROL

REMOVE ALL SOURCES OF IGNITION.AVOID BREATHING VAPORS.VENTILATE AREA.REMOVE WITH INERT ABSORBENT

WASTE ELIMINATION

DISPOSE OF IN ACCORDANCE WITH LOCAL;STATE AND FEDERAL REGULATIONS.INCINERATE IN APPROVED FACILITY. DO NOT INCINERATE CLOSED C ONTAINERS.

OTHER PRECAUTIONS

DO NOT SPRAY IN EYES. DO NOT PUNCTURE OR INCINERATE CANS. DO NOT FLAME CUT,BRAZE OR WELD WITHOUT OUR. OF MINES APPROVED RESPIATO R OR APPROPRIATE VENTILATION

SUPPLEMENTAL DATA

B.P. RANGE 6-199C

Organization: Fire Prot. Div. Facility: Fire Prev. Sect. Point of Contact: E. L. Martin

NSN/MANUFACTURER	ADDRESS	PRODUCT USE	QUANTITY ON HAND	RATE OF USE
4210-00-752-9343 The Anusul Co.	The Anusul Co. Marinette, Wisconsin	Chemical For fire Extg. B. C.	10 CN	10 CN Per. yea

Organization: Fire Prot. Div. Facility: Fire Prev. Sect. Point of Contact: E. L. Martin

NSN/MANUFACTURER	ADDRESS	PRODUCT USE	QUANTITY ON HAND	RATE OF USE
The Scholl MFG. Co.INc.	Chigago 10, Ill.	White Petrolatum Used on Fire Extinguisher	2 Lb.	UNKNOW

Organization: Fire Prot. Div. Facility: Fire Prev. Sect. Point of Contact: E. L. Martin

NSN/MANUFACTURER	ADDRESS	PRODUCT USE	QUANTITY ON HAND	RATE OF USE
4210-00-752-9343 Dry Chenical Fire Extg.	The Ansul Company EMY # 715-735-7411	Extinguishing Agent	10 CN	1 CN Per Month

Organization:

Facility:

Point of Contact:

NSN/MANUFACTURER	ADDRESS	PRODUCT USE	QUANTITY ON HAND	RATE OF USE

Organization: Fire Prot. Div. Facility: Fire Prev. Sect. Point of Contact: E. L. Martin

NSN/MANUFACTURER	ADDRESS	PRODUCT USE	QUANTITY ON HAND	RATE OF USE
Fire Chief Fire Extinguisher Co.	3710 East Fifth Av. Columbus Ohio, 43219	Used for fire Extg. A B C Chemical	31 CN	5 CN Per Year

GCCD15 A 1

• • • HAZARDOUS ITEM QUARTERLY CHANGES • • •

NSN	FSCM	MGR	F P IND	PN IND	PART NUMBER/TRADE NAME	ACT CD	DATE	PAGE NR
8010-00-262-2089	96548	N	A		3508 THINNER		85303	1

• • • • GENERAL INFORMATION • • • •

PROPRIETARY NO

MANUFACTURER: CHEVRON CHEMICAL CORP.

EMERGENCY TELE NO: 415-233-3737

ITEM NAME: THINNER,PAINT,MINERAL SPIRITS

UI	UI CONTAINER QTY	TYPE OF CONT	NET UNIT WT	MAG/MILGAUS	EXEMPTION NO
GL	1 GAL	CAN			

AEROSOL PROPELLANT

SPECIFICATION: TT-T-291

RADIOACTIVITY	FORM	TR CD	NRC LIC NUMBER	CHEMICAL NAME	CHEMICAL FAMILY	FORMULA
			N/A			

• • • • • HAZARDOUS COMPONENTS • • • • •

MIXTURE NO	CHEMICAL NAME	PCT	T L V
1000919PM	PARAFFINS(INCLUDING NAPHTHENES)	98	
1002018CA	C•8•(EIGHT CARBONS [illegible]S)	2	
CY1400200	BENZENE SUSPECTED [illegible]INOGEN IN HUMANS	<0.02%	10PPM

• • • • • • TRANSPORTATION DATA • • • • • •

DOT SHIPPING NAME: N/A

CLASS: LABEL: MODE: ID NO: RQ:

WATER SHIPPING NAME: THINNER

CLASS: FLAMMABLE LIQUID LABEL: FLAMMABLE LIQUID UN NO: 1263 UN CLASS: 3.3 COM CD: DOT: NO IMCO YES

TARIFF 6-D SHIPPING: N/A

CLASS: LABEL:

IATA SHIPPING NAME: THINNER

CLASS: FLAMMABLE LIQUID LABEL: FLAMMABLE LIQUID IATA ARTICLE NO: 1263

AFT 71-6 SHIPPING NAME: N/A

CLASS: LABEL: NMAC:

• • • • • • ADDITIONAL DATA • • • • • •

N S N

8010-00-242-2089

ACT CD DATE PAGE NR
84230 2

• • • • HEALTH AND PHYSICAL PROPERTY DATA • • • •

BOILING POINT	VAP DEN/AIR=1/	SOL IN H20	FLASH POINT	VAP PRESS/MM HG/70 F/	TLV-MIXTURE	STORAGE CODE
314-387F	4.9	INSOLUBLE	105F;41C; TCC	5	125PPM (MFR)	

APPEARANCE AND ODOR
COLORLESS LIQUID

LEL/PCT/	UEL/PCT/	SP GR	PCT VOLT BY VOL	EVAP RATE PER REFERENCE
1	6	0.79	99	0.13 (BUAC=1)

EFFECTS OF OVEREXPOSURE
EYE: MINOR IRRIT. SKIN: IRRIT,CRACKD/DRY FROM DEFATTING. INH: CNS DEPRESSN. INGEST:VOMIT,PNEUMONITIS

NET PROP WT-AMMO N/A NET EXP WT

STABLE
YES

CONDITIONS TO AVOID

MATERIALS TO AVOID
STRONG OXIDIZING MATERIAL

HAZ POLYMERIZATION OCCUR
NO

CONDITIONS TO AVOID

AUTO IGN TEMP VISCOSITY CG AMMO CD

HAZARDOUS DECOMPOSITION PRODUCTS
NORMAL COMBUST: CO-2,WATER VAPOR;INCOMPLETE COMBUST: CO

• • • • SAFETY STORAGE HANDLING AND FIRE FIGHTING PROCEDURES • • • •

EXTINGUISHING MEDIA
CO-2,DRY CHEM,FOAM,WATER SPRAY

SPECIAL FIRE FIGHTING PROCEDURES
WEAR PROPER PROTECT EQUIP-INCLUDING SELF-CONT BRTH APPAR

UNUSUAL FIRE / EXPLOSION HAZARDS
HAZ PRODUCTS OF COMBUSTION & OXYGEN DEFICIENCY SUCH AS CO-2,WATER VAPOR & CARBON MONOXIDE

PROTECTIVE GLOVES
RUBBER

EMERGENCY FIRST AID PROCEDURES
EYE: FLUSH W/ WATER FOR 15 MIN. SEE DOCTOR IF IRRIT PERSISTS. SKIN: WASH W/ SOAP & WATER. REMOVE & WASH CONTAMINATED CLOTHES BEFORE REUSE. INHAL: REMOVE TO FRESH AIR,APPLY ARTIF RESP IF NEC,CALL DOCTOR IMMED. INGEST: DO NOT INDUCE VOMIT,SEE SUPP DATA

TYPE OF RESPIRATORY PROTECTION
OSHA/MSHA APPRVD ORGANIC VAPOR CART OR AIR-SUPPLIED RESP (MFR)

VENTILATION
ADEQUATE VENT TO KEEP CONC BELOW TLV

EYE PROTECTION
CHEM SAFETY GOGGLES

OTHER PROTECTIVE EQUIPMENT
IMPERVIOUS PROTECTIVE CLOTHING

HANDLING / STORAGE PRECAUTIONS
DO NOT STORE NEAR FLAME,SPARKS OR HOT SURFACES. USE ONLY IN WELL VENTED AREA. KEEP CONTAINER CLOSED. DO NOT WELD,DRILL OR HEAT CONTAINER.

• • • • SPILL AND LEAK PROCEDURES • • • •

SPILL AND LEAK CONTROL
ABSORB LARGE SPILLS W/ ABSORBENT CLAY,DIATOMACEOUS EARTH,OR OTHER SUITABLE MATRL AS SOON AS POSSIBLE. A FIRE OR VAPOR HAZARD MAY EXIST SINCE THESE CLEANUP MATERIALS WILL ONLY ABSORB LIQ;THEY WILL NOT ABSORB VAPOR. OBSERVE ALL PRECAUTIONS OF PRODUCT

WASTE ELIMINATION
MFR RECOMMENDS PLACING CONTAMINATED MATERIALS IN DISPOSAL CONTAINERS & BURYING IN AN APPROVED DUMPING AREA. DISPOSAL METHOD MUST BE SAN FED, STATE & LOCAL CODES.

OTHER PRECAUTIONS

REPLACE CAP OR BUNG. EMPTIED CONTAINER STILL CONTAINS HAZARDOUS OR EXPLOSIVE VAPOR OR LIQUID. DO NOT USE PRESSURE TO EMPTY DRUM OR EXPLOSION MAY RESULT.

SUPPLEMENTAL DATA

FLASH PT: 116F;47C;TOC. VISCOSITY: 1.072CST @ 100F. MOLECULAR WT : 142(AVG). FIRST AID: INGEST-VOMITING CAN RESULT IN ASPIRATION WHICH CAN CAUSE PNEUMONITIS,CALL MD IMMEDIATELY. SIZE: 1 GAL

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GLC019 L17 * * * HAZARDOUS ITEM BASIC PUBLICATION * * *

NSN	FSCM	MGR	F P IND	PN IND	PART NUMBER/TRADE NAME	ACT CD	DATE	PAGE NR
8010-00-527-2045	09869		N	A	YELLOW 13538		83035	1

* * * * GENERAL INFORMATION * * * *

PROPRIETARY IND

MANUFACTURER
AMERON INDUSTRIAL COATINGS DIVISION

EMERGENCY TELE NO
316-7331361

ITEM NAME

UI CN | UI CONTAINER QTY | TYPE OF CONT | NET UNIT WT | MAG/MILGAUS | EXEMPTION NO

1 GAL

AEROSOL PROPELLANT

SPECIFICATION

RADIOACTIVITY | FORM | TR GP | NRC LIC NUMBER | CHEMICAL NAME | CHEMICAL FAMILY | FORMULA

* * * * * HAZARDOUS COMPONENTS * * * * *

NIOSH NO	CHEMICAL NAME	PCT	T L V
SE7555000	MINERAL SPIRITS	38.0	350 MG/CUM

* * * * * * TRANSPORTATION DATA * * * * * *

DOT SHIPPING NAME: PAINT,ENAMEL,LACQUER,STAIN,SHLLAC,OR VARNISH,LIQUID

CLASS: FLAMMABLE LIQUID LABEL: FLAMMABLE LIQUID HCOE: ID NO: RQ:

WATER SHIPPING NAME: PAINTS,ENAMELS,LACQUERS,SHELLAC,STAINS,VARNISH

CLASS: FLAMMABLE LIQUID LABEL: FLAMMABLE LIQUID UN NO: 1263 UN CLASS: 3.3 COM GP: DOT: YES IMCO YES

TARIFF 6-8 SHIPPING: PAINT, ENAMEL, LIQUID

CLASS: FLAMMABLE LIQUID LABEL: FLAMMABLE LIQUID

IATA SHIPPING NAME: PAINTS,ENAMELS,LACQUERS,STAINS,SHELLAC,VARNISH

CLASS: FLAMMABLE LIQUID LABEL: FLAMMABLE LIQUID IATA ARTICLE NO: 1263

AFR 71-4 SHIPPING NAME: PAINT,ENAMEL,LACQUER,STAIN,SHELLAC,OR VARNISH,LIQUID

CLASS: FLAMMABLE LIQUID LABEL: FLAMMABLE LIQUID NMAC:

* * * * * * ADDITIONAL DATA * * * * * *

M17

N S N

ACT CD DATE PAGE NR

8010-00-527-2045 * * * * HEALTH AND PHYSICAL PROPERTY DATA * * * * 79269 2

BOILING POINT 311-373F | VAP DEN/AIR=1/ >1 | SOL IN H2O | FLASH POINT 85F TCC | VAP PRESS/MM HG/70 F/ | TLV-MIXTURE | STORAGE CODE

APPEARANCE AND ODOR | LEL/PCT/ 1.1 | UEL/PCT/ | SP GR | PCT VOLT BY VOL 4..0 | EVAP RATE PER REFERENCE SLOWER THAN ETHER

EFFECTS OF OVEREXPOSURE

ANESTHETIC, IRR. OF RESPIRATORY TRACT OR ACUTE NERVOUS STS. DEPRESSION, EYE & SKIN IRRITATION | NET PROP WT-AMMO | NEW LB

STABLE YES | CONDITIONS TO AVOID: AVOID FIRE,HEAT AND HOT SURFACES | MATERIALS TO AVOID

HAZ POLYMERIZATION OCCUR NO | CONDITIONS TO AVOID | AUTO IGN TEMP | VISCOSITY | CG AMMO CD

HAZARDOUS DECOMPOSITION PRODUCTS

* * * * SAFETY STORAGE HANDLING AND FIRE FIGHTING PROCEDURES * * * *

EXTINGUISHING MEDIA

SMALL FIRES-CARBON DIOXIDE OR DRY CHEM. LARGE FIRES-FOAM

SPECIAL FIRE FIGHTING PROCEDURES

SELF-CONTAINED BREATHING APPARATUS FOR FIREMEN

UNUSUAL FIRE / EXPLOSION HAZARDS

CLOSED CONTAINERS EXPOSED TO HEAT MAY EXPLODE

PROTECTIVE GLOVES

EMERGENCY FIRST AID PROCEDURES

IN CASE OF CONTACT FLUSH SKIN AND EYES WITH WATER AND REMOVE CONTAMINATED CLOTHING. IF INHALED REMOVE TO FRESH AIR. CALL A PHY SICIAN IF CONDITIONS PERSIST.

TYPE OF RESPIRATORY PROTECTION

USE NIOSH APPROVED PAINT RESPIRATOR OR AIR SUPPLIED RESPIRATOR

VENTILATION

PROVIDE GENERAL DILUTION OR LOCAL EXHAUST AS NECESSARY

EYE PROTECTION

OTHER PROTECTIVE EQUIPMENT

HANDLING / STORAGE PRECAUTIONS

DO NOT STORE ABOVE 120F. STORE LARGE Q UANTITIES IN BUILDINGS DESIGNED FOR STORAGE OF NFPA CLASS ONE FLAMMABLES.

* * * * SPILL AND LEAK PROCEDURES * * * *

SPILL AND LEAK CONTROL

REMOVE ALL SOURCES OF IGNITION. AVOID BREATHING VAPORS. REMOVE WITH INERT ABSORBENT AND NON-SPARKING TOOLS

WASTE ELIMINATION

DISPOSE IN ACCORDANCE WITH LOCAL,STATE AND FEDERAL REGULATIONS. DO NOT INCINERATE CLOSED CONTAINERS

OTHER PRECAUTIONS

CONTAINERS SHOULD BE GROUNDED WHEN POURING. AVOID FRE[illegible] OF L[illegible] RESPIRATOR USE BASED ON CHEM. CONC. AND CONDITIONS OF USE. IQUID IN EXCESS OF A FEW INCHES

SUPPLEMENTAL DATA

GLC019 N17 * * * HAZARDOUS ITEM BASIC PUBLICATION * * *

N S N	FSCM	MGR	F P IND	PN IND	PART NUMBER/TRADE NAME	ACT CD	DATE	PAGE NR
8010-00-527-2045	33832		N	A	TT-E-489FYELLOW,13538,ENAMEL,ALKYD,GLOSS		82350	1

* * * * GENERAL INFORMATION * * * *

PROPRIETARY NO: CHEMRAY COATINGS

MANUFACTURER

EMERGENCY TELE NO: 201-469-1110

ITEM NAME	UI	UI CONTAINER QTY	TYPE OF CONT	NET UNIT WT	MAG/MILGAUS	EXEMPTION NO
AEROSOL PROPELLANT						

SPECIFICATION: TT-E-489

RADIOACTIVITY	FORM	TR GP	NRC LIC NUMBER	CHEMICAL NAME	CHEMICAL FAMILY	FORMULA
			N/A			

* * * * * HAZARDOUS COMPONENTS * * * * *

NIOSH NO	CHEMICAL NAME	PCT	T L V
6B2975000	LEAD CHROMATE (COMBINED W/TI 0-2 EXTENDERS, -30.5%)(SUSPECT HUMAN CARCINOGEN)	10.0	0.05 MG/CUM
1000239AR	ALKYD RESIN	30.5	
1000921MS	RULE 66 MINERAL SPIRITS	39	120 PPM (MFGR)
1000261LC	LEAD & COBALT DRIERS(TLV LISTED IS FOR COBALT METAL,FUME,DUST)	.5	0.10 MG/CUM

* * * * * * TRANSPORTATION DATA * * * * * *

DOT SHIPPING NAME: PAINT,ENAMEL,LACQUER,STAIN,SHELLAC,OR VARNISH,LIQUID.

CLASS: COMBUSTIBLE LIQUID LABEL: NONE MODE: ID NO: RQ:

WATER SHIPPING NAME: PAINTS,ENAMELS,LACQUERS,SHELLACK,STAINS,VARNISH.

CLASS: FLAMMABLE LIQUID LABEL: FLAMMABLE LIQUID UN NO: 1263 UN CLASS: 3.3 COM GP: DOT: YES INCO YES

TARIFF 6-D SHIPPING: N/A

CLASS: LABEL:

IATA SHIPPING NAME: PAINTS,ENAMELS,LACQUERS,STAINS,SHELLAC,VARNISH,LIQUID

CLASS: FLAMMABLE LIQUID LABEL: FLAMMABLE LIQUID IATA ARTICLE NO: 1263

AFR 71-4 SHIPPING NAME:

CLASS: LABEL: AMAC:

* * * * * * ADDITIONAL DATA * * * * * *

017

M S N

8010-00-527-2045

ACT CD DATE PAGE NR

82322 2

*** * * * HEALTH AND PHYSICAL PROPERTY DATA * * * ***

BOILING POINT	VAP DEN/AIR=1/	SOL IN H2O	FLASH POINT	VAP PRESS/MM HG/70 F/	TLV-MIXTURE	STORAGE CODE
315-390 F		NEGLIGIBLE	100 F (38 C)PMCC			

APPEARANCE AND ODOR
YELLOW LIQUID,NOT ABNOXIOUS

LEL/PCT/	UEL/PCT/	SP GR	PCT VOLT BY VOL	EVAP RATE PER REFERENCE
.07	6.0	1.21	60.7	.1(N-BU AC)

EFFECTS OF OVEREXPOSURE
EXCESSIVE INHALATION:HDACHE,DIZZ,UNCON,COMA.SKIN/EYE;PRIMARY IRRITATION,DRYING OF SKIN

MET PROP WT-AMMO: N/A

NEW LB

STABLE: YES

CONDITIONS TO AVOID
HEAT,SPARKS,OPEN FLAME & FIRE

MATERIALS TO AVOID
STRONG OXIDIZING AGENTS,STRONG ACIDS OR BASES

HAZ POLYMERIZATION OCCUR: NO

CONDITIONS TO AVOID

AUTO IGN TEMP

VISCOSITY

CG AMMO CD

HAZARDOUS DECOMPOSITION PRODUCTS
THERMAL DECOMP MAY YIELD CARBON MONOXIDE &/OR CO=2

*** * * * SAFETY STORAGE HANDLING AND FIRE FIGHTING PROCEDURES * * * ***

EXTINGUISHING MEDIA
CO=2,DRY CHEMICAL OR FOAM

SPECIAL FIRE FIGHTING PROCEDURES
WATER FOG TO COOL HEAT EXPOSD CONTAINER;SELF CONTAIN BREATH

UNUSUAL FIRE / EXPLOSION HAZARDS
CLOSED CONTAINERS MAY EXPLODE WHEN EXPOSED TO EXTREME HEAT. DO NOT APPLY TO HOT SURFACES.

PROTECTIVE GLOVES
PRLNGD/REPEATED

EMERGENCY FIRST AID PROCEDURES
FUMES:REMOVE FROM EXPOSURE;RESTORE BREATHING;KEEP WARM;CALL MD.EYE:FLUSH W/RUNNING WATER FOR 15 MIN.SEE MD.SKIN:REMOVE CONTAMINATED CLOTHING;WASH AFFECTED AREA W/SOAP & WATER.

TYPE OF RESPIRATORY PROTECTION
NSHA/NIOSH APPRVD FOR EXPOSURE OF CONCERN WHEN SPRAYING

VENTILATION
LOCAL;SUFF.TO KEEP LEL & TLV BELOW LIMIT;SEE SUPP DATA

EYE PROTECTION
GOGGLES FOR SPLASH/SPRAY

OTHER PROTECTIVE EQUIPMENT
IMPERMEABLE APRON FOR PROLONGED OR REPEATED CONTACT

HANDLING / STORAGE PRECAUTIONS
KEEP AWAY FROM SOURCES OF IGNITION;USE W/ADEQUATE VENTILATION;AVOID PROLONGED OR REPEATED CONTACT W/SKIN

*** * * * SPILL AND LEAK PROCEDURES * * * ***

SPILL AND LEAK CONTROL
REMOVE W/ABSORBENT MATERIAL OR FLUSH W/WATER INTO RETAINING AREA OR CONTAINER;AVOID SPARKS,FIRE & HOT SURFACES.VENTILATE AREA.

WASTE ELIMINATION
INCINERATE IN APPROVED FACILITY OR DISPOSE OF IN ACCORDANCE W/LOCAL,STATE & FEDERAL REGULATIONS.DO NOT INCINERTE CLOSED CONTAINERS.

OTHER PRECAUTIONS
DO NOT TAKE INTERNALLY.KEEP BELOW 120 F TO AVOID PRESSURE BUILD-UP

SUPPLEMENTAL DATA
VENTILATION:USE FANS W/EXPLOSION PROOF MOTORS ONLY;AIR LINE RESPIRATOR OR HOOD FOR CONFINED AREA SPRAY.

A18 * * * HAZARDOUS ITEM BASIC PUBLICATION * * *

FSCM	MGR	F P IND	PN IND	PART NUMBER/TRADE NAME	ACT CD	DATE	PAGE NR
61196		G	A	13538-YELLOW		85099	1

*** * * * GENERAL INFORMATION * * * ***

MANUFACTURER: T B LAMBERT

EMERGENCY TELE NO: 316-733-1361

ITEM NAME	UI	UI CONTAINER QTY	TYPE OF CONT	NET UNT WT	MAG/MILGAUS	EXEMPTION NO
S	GL	1 GALLON	CN			

AEROSOL PROPELLANT

SPECIFICATION: TT-E-489

FORM	TR GP	NRC LIC NUMBER	CHEMICAL NAME	CHEMICAL FAMILY	FORMULA

*** * * * * HAZARDOUS COMPONENTS * * * * ***

CHEMICAL NAME	PCT	T L V
NERAL SPIRITS	35	500 PPM
D CHROME YELLOW	25	>10.000 G/KG
AD NAPHTHENATE 362	<5	0.500 G/KG
IETHYLAMINE	<0.5	25 PPM
LYBDATE ORANGE	<0.5	>10.000 G/KG

*** * * * * * TRANSPORTATION DATA * * * * * ***

NAME: N/A

LABEL: MODE: ID NO: RQ:

NAME:

LABEL: UN NO: UN CLASS: COM GP: DOT: IMCO

PING:

LABEL:

NAME:

LABEL: IATA ARTICLE NO:

NAME:

LABEL: MMAC:

*** * * * * * ADDITIONAL DATA * * * * * ***

LIES TO EXCEPTIONS FOR COMBUSTIBLE LIQUIDS.

B18

ACT CD DATE PAGE NR

5 * * * * HEALTH AND PHYSICAL PROPERTY DATA * * * * 85098 2

ING POINT -373F | VAP DEN/AIR=1/ >AIR | SOL IN H2O | FLASH POINT 104 F 40 C TCC | VAP PRESS/MM HG/70 F/ | TLV-MIXTURE | STORAGE CODE

PPEARANCE AND ODOR | LEL/PCT/ | UEL/PCT/ | SP GR | PCT VOLT BY VOL 59 | EVAP RATE PER REFERENCE <ETHER

EFFECTS OF OVEREXPOSURE

ROAT,EYES & POSS DIZZINESS & NAUSEA.SPRAY MIST CONTN LEAD.

NET PROP WT-AMMO | NEW LB

CONDITIONS TO AVOID

AT & HOT SURFACES.

MATERIALS TO AVOID

AVOID CONTCT W.STRONG ACIDS OR AKALINE MATERIALS.

ON OCCUR

CONDITIONS TO AVOID

DO NOT ADD DRIERS OR REACTIV CHEM W/O TECHN SUPERVISION.

AUTO IGN TEMP | VISCOSITY | CG AMMO CO

ZARDOUS DECOMPOSITION PRODUCTS

DUCE SMOKE & OXIDES OF CARBON & LEAD.

* * * * SAFETY STORAGE HANDLING AND FIRE FIGHTING PROCEDURES * * * *

EXTINGUISHING MEDIA

CARBON DIOXIDE, DRY CHEM OR ALCOHOL FOAM

SPECIAL FIRE FIGHTING PROCEDURES

SELF CONTAINED BREATH APPARAT WATER MAY BE INEFECTIVE.

UNUSUAL FIRE / EXPLOSION HAZARDS

NTHLY CLOS.ISOLAT FR HEAT,ELECTR EQPMT,SPARKS & OPN FLAME.DO NOT APPLY TO VRYHOT SUR

PROTECTIVE GLOVES

SOLVENT,IMPERME

EMERGENCY FIRST AID PROCEDURES

EXPOSR & PROVID FRESH AIR.SPLASH EYES-FLUSH IMMED W/LG AMTS OF WATER FOR 15 MIN.SPLASH SKIN:REMOV CONTAM CLOT
AFFECT AREA W/WATR.INGEST:DO NOT INDUC VOMITNG.CONSULT A DR. IMMED IN ALL CASES.

TYPE OF RESPIRATORY PROTECTION

N RESPIRAT TO REMOV OVERSPRAY WHN SPRAYING IN OUTDR

VENTILATION

PROVID GEN DILUT/LOC EXHAUST VENT TO KP CONCENT BELO ACEP TL

TION

OTHER PROTECTIVE EQUIPMENT

PROTECTV EQPMT TO PRVNT SKN CONTCT.SE OSHA,29 CFR 1910.1025
W/OSHA 1910.106.CONTNRS SHLD BE GROUNDED & BONDED TO THE RECEIVING CONTNR.

HANDLING / STORAGE PRECAUTIONS

DO NOT STORE ABOV 120 F.STORE LG QUANT

* * * * SPILL AND LEAK PROCEDURES * * * *

LL AND LEAK CONTROL

S OF IGNIT (FLAMES,HOT SURFACES,ELECTRICAL, STATIC OR FRICTIONAL SPARKS).VENTILAT AREA & AVOID BREATING VAPOR
ABSORB & NON-SPARKING TOOLS.STEPS MUST BE TAKN TO PREVNT CONTAM OF GROUND WATR OR STREAMS.

TE ELIMINATION

D W/LOCAL, STATE & FEDERAL REGULATIONS.INCINERATIN EPA APPRVD FACILITY.DO NOT INCINERAT CLOSED CONTAINERS.

OTHER PRECAUTIONS

SUPPLEMENTAL DATA

LD ON EMPTY CONTAINER. DO NOT USE UNTIL LL SAFET
VE BEEN READ & FULLY UNDERSTOOD BY THE USER.

C18 * * * HAZARDOUS ITEM BASIC PUBLICATION * * *

N	FSCM	NCR	F P IND	PN IND	PART NUMBER/TRADE NAME	ACT CD	DATE	PAGE NR
17-2045	72988	68A	G	A	TT-E-489		85142	1

* * * * GENERAL INFORMATION * * * *

MANUFACTURER
EVERSEAL MANUFACTURING CO INC.

EMERGENCY TELE NO
201-943-4986

ITEM NAME	UI	UI CONTAINER QTY	TYPE OF CONT	NET UNIT WT	MAG/MILGAUS	EXEMPTION NO
	GL	1-GALLON				

AEROSOL PROPELLANT

SPECIFICATION
TT-E-489

TY	FORM	TR CD	NRC LIC NUMBER	CHEMICAL NAME	CHEMICAL FAMILY	FORMULA

* * * * * HAZARDOUS COMPONENTS * * * * *

CHEMICAL NAME	PCT	T L V
TITANIUM DIOXIDE	2	NA
LEAD CHROMATE	27	
TT-R-266TYPE 3 ALK	28	NA
RULE 66 MINERAL SPIRITS	42	120

* * * * * * TRANSPORTATION DATA * * * * * *

PPING NAME: N/A

APPLICABLE LABEL: NOT APPLICABLE MODE: N/A ID NO: N/A RB: NO

PPING NAME:

LABEL: UN NO: UN CLASS: COM CD: DOT: IMCO

D SHIPPING:

LABEL:

PPING NAME:

LABEL: IATA ARTICLE NO:

PPING NAME:

LABEL: NMAC:

* * * * * * ADDITIONAL DATA * * * * * *

8A APPLIES TO EXCEPTIONS FOR COMBUSTIBLE LIQUIDS.

D18

ACT CD DATE PAGE NR

* * * * HEALTH AND PHYSICAL PROPERTY DATA * * * * 85120 2

NG POINT	VAP DEN/AIR=1/	SOL IN H2O	FLASH POINT	VAP PRESS/MM HG/70 F/	TLV-MIXTURE	STORAGE CODE
390F	4.9	NONE	105F TCC	20	1MG PER 10CUBIC	

PEARANCE AND ODOR	LEL/PCT/	UEL/PCT/	SP GR	PCT VOLT BY VOL	EVAP RATE PER REFERENCE
NDARD PAINT ODOR	0.7	6.0	1.16	70	0.1

EFFECTS OF OVEREXPOSURE — NET PROP WT-AMMO — NEW LB

LEAD POISONING,HARMFUL DUST

CONDITIONS TO AVOID — MATERIALS TO AVOID

KS OPEN FLAME FIRE — STRONG OXIDIZING AGENTS

N OCCUR — CONDITIONS TO AVOID — AUTO IGN TEMP — VISCOSITY — CG AMMO CL

ARDOUS DECOMPOSITION PRODUCTS

Y YIELD CARBON MONOXIDE AND CARBON DIOXIDE

* * * * SAFETY STORAGE HANDLING AND FIRE FIGHTING PROCEDURES * * * *

EXTINGUISHING MEDIA — SPECIAL FIRE FIGHTING PROCEDURES

ICAL WATER SPRAY — WEAR SELF CONTAINED BREATHING APPARATUS.COOLING AGENT WATER

UNUSUAL FIRE / EXPLOSION HAZARDS — PROTECTIVE GLOVES IMPERMEABLE

EMERGENCY FIRST AID PROCEDURES

UST IN CASE OF EYE CONTACT FLUSH EYES WITH WATER. WASH THOROUGHLY AFTER HANDLING

TYPE OF RESPIRATORY PROTECTION — VENTILATION

OSH APPROVED TC-21C OR TC-23C — LOCAL EXHAUST TO KEEP WORK ROOM CONCENTRATION

ION — OTHER PROTECTIVE EQUIPMENT — HANDLING / STORAGE PRECAUTIONS

APRON BARRIER CREAM — KEEP COOL AND AWAY FROM IGNITION SOURC

ILATION.AVOID PROLONGED OR REPEATED PERSONAL CONTACT.

* * * * SPILL AND LEAK PROCEDURES * * * *

L AND LEAK CONTROL

RETAINING AREA OR CONTAINER AVOID SPARKS FIRE OR HOT METAL SURFACES SMALL QUANTITY MAY BE ABSORBED ONTO AN I

RBENT DISPOSE IN APPROPRIATE CONTAINER AND APPROPRIATE DUMP.

E ELIMINATION

SAFE CONDITIONS OR DISPOSE OF IN ACCORDANCE WITH APPLICABLE LOC STATE & FED REGS

OTHER PRECAUTIONS — SUPPLEMENTAL DATA

ESTS RECOMMENDED,WASH HANDS BEFORE EATING SHOWER — FORMULA 8 SECTION V-METERS ASCR03

E18 * * * HAZARDOUS ITEM BASIC PUBLICATION * * *

	FSCM	NGR	F P IND	PN IND	PART NUMBER/TRADE NAME	ACT CD	DATE	PAGE NR
045	84239		N	A	TT-E-489F, YELLOW #13538 (PAINT)		81013	1

* * * * GENERAL INFORMATION * * * *

MANUFACTURER
TLAS PAINT AND VARNISH COMPAY

EMERGENCY TELE NO
201-373-3300

ITEM NAME

UI CN | UI CONTAINER QTY | TYPE OF CONT | NET UNIT WT | MAG/MILGAUS | EXEMPTION NO
1 GAL

AEROSOL PROPELLANT

SPECIFICATION
TT-E-489F

FORM | TR CD | NRC LIC NUMBER | CHEMICAL NAME | CHEMICAL FAMILY | FORMULA
N/A

* * * * * HAZARDOUS COMPONENTS * * * * *

CHEMICAL NAME	PCT	T L V
ALKYD RESIN	30.	
MINERAL SPIRIT	39.	200 PPM - MFG
LEAD COBALT DRIERS	1.	500 PPM - MFG
MED CHROME YELLOW (AS PIGMENT)	30.	

* * * * * * TRANSPORTATION DATA * * * * * *

NG NAME: N/A

LABEL: MODE: ID NO: RQ:

NG NAME: PAINTS, ENAMELS, FLAMMABLE LIQ

LE LIQUID LABEL: FLAMMABLE LIQUID UN NO: 1263 UN CLASS: 3.3 COM GP: DOT: NO IMCO YES

HIPPING: N/A

LABEL:

NG NAME: N/A

LABEL: IATA ARTICLE NO:

NG NAME: N/A

LABEL: MMAC:

* * * * * * ADDITIONAL DATA * * * * * *

F18

ACT CD DATE PAGE NR

:045 * * * * HEALTH AND PHYSICAL PROPERTY DATA * * * * 80254 2

)ILING POINT 317 TO 388F | VAP DEN/AIR=1/ 4.8 | SOL IN H20 NEGLIGIBLE | FLASH POINT 108F TCC | VAP PRESS/MM HG/70 F/ 5 | TLV-MIXTURE | STORAGE CODE

APPEARANCE AND ODOR
ODOR - THIN YELLOW PAINT

LEL/PCT/ 0.9 | UEL/PCT/ 6.0 | SP GR 1.2 | PCT VOLT BY VOL 53. | EVAP RATE PER REFERENCE 0.09 N-BU AC

EFFECTS OF OVEREXPOSURE
LD DEPRESSION AND LOSS OF CONSCIOUSNESS IN HIGH CONCENTRATION.

NET PROP WT-AMMO N/A | NEW LB

CONDITIONS TO AVOID
:LAME

MATERIALS TO AVOID

\TION OCCUR | CONDITIONS TO AVOID | AUTO IGN TEMP | VISCOSITY | CG AMMO CD

HAZARDOUS DECOMPOSITION PRODUCTS

* * * * SAFETY STORAGE HANDLING AND FIRE FIGHTING PROCEDURES * * * *

EXTINGUISHING MEDIA
:Y CHEMICAL, WATER FOG

SPECIAL FIRE FIGHTING PROCEDURES
USE AIR SUPPLIED RESCUE EQUIP. COL EXPOSED CONTAINTERS.

UNUSUAL FIRE / EXPLOSION HAZARDS
'OTENTIAL BASED ON FLASH POINT.

PROTECTIVE GLOVES RECOMMENDED

EMERGENCY FIRST AID PROCEDURES
FROM EXPOSURE. CALL PHYSICIAN. SKIN: FLUSH WITH WATER. EYE: IMMEDIATELY FLUSH WITH WATER AT LEAST 15 MINUTES.

TYPE OF RESPIRATORY PROTECTION
'ECTION

VENTILATION
LOCAL - MOST DESIRABLE

OTHER PROTECTIVE EQUIPMENT
CONVENTIONAL CLOTHES FOR PAINTING

HANDLING / STORAGE PRECAUTIONS
AVOID OPEN FLAMES, SPARKS AND EXCESSI
.ATE AREA.

* * * * SPILL AND LEAK PROCEDURES * * * *

SPILL AND LEAK CONTROL
:ATELY AND DISCARD ABSORBANTS SAFELY. REMOVE OPEN IGNITION. DIKE LARGE SPILLS AND PUMP INTO WASTE TANK. KEEP VEN
VOID PROLONGED BREATHING OF VAPORS.

WASTE ELIMINATION
DOUS WASTE CARRIER; EPA REGULATED - STATE OR FEDERAL.

OTHER PRECAUTIONS

SUPPLEMENTAL DATA

GARDING TOXICITY AND APPLICATION. DOT CLASSIFICATIO NFG SUGGESTS TLV OF 200 PPM/8 HR WORK DAY
LE

618 * * * HAZARDOUS ITEM BASIC PUBLICATION * * *

	FSCM	MGR	F P IND	PN IND	PART NUMBER/TRADE NAME	ACT CD	DATE	PAGE NR
045	92216	68A	6	A	GLOSS YELLOW 13538		82095	1

* * * * GENERAL INFORMATION * * * *

MANUFACTURER
RATT AND LAMBERT-WICHITA DIV

EMERGENCY TELE NO
316-733-1361

ITEM NAME	UI	UI CONTAINER QTY	TYPE OF CONT	NET UNIT WT	MAG/MILGAUS	EXEMPTION NO
	GL	GALLON	CAN	10.50		

AEROSOL PROPELLANT

SPECIFICATION
TT-E-4896

FORM	TR CD	NRC LIC NUMBER	CHEMICAL NAME	CHEMICAL FAMILY	FORMULA

* * * * * HAZARDOUS COMPONENTS * * * * *

CHEMICAL NAME	PCT	T L V
MEDIUM CHROME YELLOW LD 50 VALUE GREATER THAN 10.000 GMS/KG	20-3	
TRIETHYLAMINE LD 50 VALUE = .460 GMS/KG LEL 1.20 VAPOR PRESSURE 52.00	<0.5	25
MINERAL SPIRITS LEL 1.10 VAPOR PRESSURE 3.20	30-4	500
LEAD NAPHTHENATE 36% LD 50 VALUE 8 .500 GMS/KG	<5	

* * * * * * TRANSPORTATION DATA * * * * * *

NG NAME: N/A

LABEL: MODE: ID NO: RQ:

NG NAME: PAINTS

LE LIQUID LABEL: FLAMMABLE LIQUID UN NO: 1263 UN CLASS: 3.3 CON GP: DOT: NO IMCO YES

HIPPING:

LABEL:

NG NAME:

LABEL: IATA ARTICLE NO:

NG NAME:

LABEL: MMAC:

* * * * * * ADDITIONAL DATA * * * * * *

UANTITY EXCEPTION 173.1188 110 62 OR LESS IN ONE CONTAINER

H18

I N

ACT CD DATE PAGE NR

527-2045 * * * * HEALTH AND PHYSICAL PROPERTY DATA * * * * 82095 2

BOILING POINT VAP DEN/AIR=1/ SOL IN H2O FLASH POINT VAP PRESS/MM HG/70 F/ TLV-MIXTURE STORAGE CODE
104 F TCC

APPEARANCE AND ODOR LEL/PCT/ UEL/PCT/ SP GR PCT VOLT BY VOL EVAP RATE PER REFERENCE
1.10

EFFECTS OF OVEREXPOSURE NET PROP WT-AMMO MEM LB

I:ANESTHETIC,IRRITATION OF THE RESPIRATORY TRACT OR ACUTE NERVOUS SYSTEM DEPRESSION CHARACT .

CONDITIONS TO AVOID MATERIALS TO AVOID

RIZATION OCCUR CONDITIONS TO AVOID AUTO IGN TEMP VISCOSITY CG AMMO CD
O

HAZARDOUS DECOMPOSITION PRODUCTS

* * * * SAFETY STORAGE HANDLING AND FIRE FIGHTING PROCEDURES * * * *

EXTINGUISHING MEDIA SPECIAL FIRE FIGHTING PROCEDURES

AL FIRE PROTECTION ASSOC.(NFPA) CLASS B EXTINGUI SELF-CONTAINED BREATHING APPARATUS SHOULD BE AUAILABLE FOR

UNUSUAL FIRE / EXPLOSION HAZARDS PROTECTIVE GLOVES

INERS TIGHTLY CLOSED.ISOLATE FROM HEAT,ELECTRICAL EQUIPMENT,SPARKS AND OPEN FLAME. CLOSED REQUIRED FOR PR

EMERGENCY FIRST AID PROCEDURES

CONTACT,FLUSH SKIN AND EYES WITH PLENTY OF WATER WHILE REMOVING CONTAMINATED CLOTHING. IF INHALED,REMOVE TO FRESH
DR. IF SYMPTOMS PERSIST.SKIN OR EYE CONTACT:PRIMARY IRRITATION.

TYPE OF RESPIRATORY PROTECTION VENTILATION

OR OPEN AREAS,USE BUREAU OF MINES APPROVED MECHANICAL FIL PROVIDE GENERAL DILUTION OR LOCAL EXHAUST VENTILATION.IN VOL

PROTECTION OTHER PROTECTIVE EQUIPMENT HANDLING / STORAGE PRECAUTIONS

EYEWEAR.DESI PREVENT PROLONGED SKIN CONTACT TO CONTAMINATED CLOTHING. DO NOT STORE 120F. STORE LARGE QUANTIT
LOING DESIGNED TO COMPLY WITH OSHA 1910.106.

* * * * SPILL AND LEAK PROCEDURES * * * *

SPILL AND LEAK CONTROL

SOURCES OF IGNITION (FLAMES,HOT SURFACES,AND ELECTRICAL,STATIC,OR FRICTIONAL SPARKS). AVOID BREATHING VAPORS.VENTI
REMOVE WITH INERT ABSORBENT AND NON-SPARKING TOOLS.

WASTE ELIMINATION

ACCORDANCE WITH LOCAL,STATE AND FEDERAL REGULATIONS.INCINERATE IN APPROVED FACILITY.DO NOT INCINERATE CLOSED CONTA

OTHER PRECAUTIONS SUPPLEMENTAL DATA

SHOULD BE GROUNDED WHEN POURING.AVOID FREE FALL OR LI
CESS OF A FEW INCHES.DO NOT FLAME CUT,BRAZE OR WELD CO
IAL WITH BUREAU OF MINES APPROVED RESPIRATOR OR APPRO

INHALATION:ANESTHETIC,IRRITATION OF THE RESPIRATORY TRACT OR ACU
TE NERVOUS SYSTEM DEPRESSION CHARACTERIZED BY HEADACHE,DIZZINESS
,STAGGERING GAIT,CONFUSION,UNCONSCIOUSNESS OR COMA.

I18 * * * HAZARDOUS ITEM BASIC PUBLICATION * * *

	FSCM	MGR	F P IND	PN IND	PART NUMBER/TRADE NAME	ACT CD	DATE	PAGE NR
?-2050	09869		F	A	BLACK #17038			1

* * * * GENERAL INFORMATION * * * *

MANUFACTURER
AMERON INDUSTRIAL COATINGS DIVISION

EMERGENCY TELE NO
316-7331361

ITEM NAME	UI	UI CONTAINER QTY	TYPE OF CONT	NET UNIT WT	MAG/MILGAUS	EXEMPTION NO
AEROSOL PROPELLANT						

SPECIFICATION

TY	FORM	TR CD	NRC LIC NUMBER	CHEMICAL NAME	CHEMICAL FAMILY	FORMULA

* * * * * HAZARDOUS COMPONENTS * * * * *

CHEMICAL NAME	PCT	T L V
MINERAL SPIRITS	53.0	350 MG/CUM

* * * * * * TRANSPORTATION DATA * * * * * *

PPING NAME:

LABEL: MODE: ID NO: RQ:

PPING NAME:

LABEL: UN NO: UN CLASS: COM CD: DOT: IMCO

) SHIPPING:

LABEL:

PPING NAME:

LABEL: IATA ARTICLE NO:

PPING NAME:

LABEL: NMAC:

* * * * * * ADDITIONAL DATA * * * * * *

J18

ACT CD DATE PAGE NR

2050 * * * * HEALTH AND PHYSICAL PROPERTY DATA * * * * 75269 2

OILING POINT 311-373F | VAP DEN/AIR=1/ >1 | SOL IN H2O | FLASH POINT 85F TCC | VAP PRESS/MM HG/70 F/ | TLV-MIXTURE | STORAGE CODE

APPEARANCE AND ODOR | LEL/PCT/ 1.1 | UEL/PCT/ | SP GR | PCT VOLT BY VOL 64.3 | EVAP RATE PER REFERENCE SLOWER THAN ETHER

EFFECTS OF OVEREXPOSURE | NET PROP WT-AMMO | NEW LB

RR. OF RESPIRATORY TRACT OR ACUTE NERVOUS SYS. DEPRESSION, EYE & SKIN IRRITATION

CONDITIONS TO AVOID | MATERIALS TO AVOID

FIRE,HEAT AND HOT SURFACES

ATION OCCUR | CONDITIONS TO AVOID | AUTO IGN TEMP | VISCOSITY | CG AMMO CD

HAZARDOUS DECOMPOSITION PRODUCTS

* * * * SAFETY STORAGE HANDLING AND FIRE FIGHTING PROCEDURES * * * *

EXTINGUISHING MEDIA | SPECIAL FIRE FIGHTING PROCEDURES

ARBON DIOXIDE OR DRY CHEM, LARGE FIRES-FOAM | SELF-CONTAINED BREATHING APPARATUS FOR FIREMEN

UNUSUAL FIRE / EXPLOSION HAZARDS | PROTECTIVE GLOVES

NERS EXPOSED TO HEAT MAY EXPLODE

EMERGENCY FIRST AID PROCEDURES

NTACT FLUSH SKIN AND EYES WITH WATER AND REMOVE TO FRESH AIR. CALL A PHYSICIAN IF CONDITIONS PERSIST.

TYPE OF RESPIRATORY PROTECTION | VENTILATION

ROVED PAINT RESPIRATOR OR AIR SUPPLIED RESPIRATOR | PROVIDE GENERAL DILUTION OR LOCAL EXHAUST AS NECESSARY

TECTION | OTHER PROTECTIVE EQUIPMENT | HANDLING / STORAGE PRECAUTIONS

UILDINGS DESIGNED FOR STORAGE OF NFPA CLASS ONE FLAMMABLE | DO NOT STORE ABOVE 120F. STORE LARGE

* * * * SPILL AND LEAK PROCEDURES * * * *

SPILL AND LEAK CONTROL

URCES OF IGNITION. AVOID BREATHING VAPORS. REMOVE WITH INERT ABSORBENT ND NON-SPARKING TOOLS

WASTE ELIMINATION

CORDANCE WITH LOCAL,STATE AND FEDERAL REGULATIONS. DO NOT INCINERATE CLOSED CONTAINERS.

OTHER PRECAUTIONS | SUPPLEMENTAL DATA

HOULD BE GROUNDED WHEN POURING. AVOID FREE FALL OF L | RESPIRATOR USE BASED ON CHEM. CONC. AND CONDITIONS OF USE.

ESS OF A FEW INCHES

37

GLC019 F15 * * * HAZARDOUS ITEM BASIC PUBLICATION * * *

NSN	FSCM	MGR	F P IND	PN IND	PART NUMBER/TRADE NAME	ACT CD	DATE	PAGE NR
8010-00-527-0216	33200		N	A	FLOOR & DECK GRAY, ENAMEL OIL BASE		81008	1

* * * * GENERAL INFORMATION * * * *

PROPRIETARY NO

MANUFACTURER: CORONADO PAINT CO, INC

EMERGENCY TELE NO: 904-428-6461

ITEM NAME

UI CN	UI CONTAINER QTY	TYPE OF CONT	NET UNIT WT	MAG/MILGAUS	EXEMPTION I
	1 GAL				

AEROSOL PROPELLANT

SPECIFICATION: TT-E-487

RADIOACTIVITY	FORM	TR GP	NRC LIC NUMBER	CHEMICAL NAME	CHEMICAL FAMILY	FORMULA
			N/A			

* * * * * HAZARDOUS COMPONENTS * * * * *

NIOSH NO	CHEMICAL NAME	PCT	T L V
1000046PI	PIGMENTS	46.3	
1000239AR	ALKYD RESIN	26.8	
SE7449000	PETROLEUM DISTILLATE	26.9	500 PPM, MFG

* * * * * * TRANSPORTATION DATA * * * * * *

DOT SHIPPING NAME: N/A

CLASS: LABEL: MODE: ID NO:

WATER SHIPPING NAME: PAINTS, ENAMEL, FLAMMABLE LIQ

CLASS: FLAMMABLE LIQUID LABEL: FLAMMABLE LIQUID UN NO: 1263 UN CLASS: 3.3 CON GP: DOT: NO INCO YE

TARIFF 6-D SHIPPING: N/A

CLASS: LABEL:

IATA SHIPPING NAME: N/A

CLASS: LABEL: IATA ARTICLE NO:

AFR 71-4 SHIPPING NAME: N/A

CLASS: LABEL: MMAC:

* * * * * * ADDITIONAL DATA * * * * * *

615

N S N

8010-00-527-0216

ACT CD DATE PAGE NR

80268 2

* * * * HEALTH AND PHYSICAL PROPERTY DATA * * * *

BOILING POINT	VAP DEN/AIR=1/	SOL IN H2O	FLASH POINT	VAP PRESS/MM HG/70 F/	TLV-MIXTURE	STORAGE COD
315F	4.90	NEGLIGIBLE	102F SETA			

APPEARANCE AND ODOR
GRAY OPAQUE LIQUID, PETROLEUM DISTILLATE ODOR

LEL/PCT/	UEL/PCT/	SP GR	PCT VOLT BY VOL	EVAP RATE PER REFERENCE
0.8	5.0	1.3800	44.0	0.1 N-BUAC

EFFECTS OF OVEREXPOSURE
EYES: SEVERE IRRIT. SKIN: DRYING. INH: EXCESSIVE-HEADACHE, DIZZINESS, NAUSEA.

NET PROP WT-AMMO N/A

NEW LB

STABLE
YES

CONDITIONS TO AVOID
EXCESSIVE HEAT, SPARKS, OPEN FLAMES

MATERIALS TO AVOID
STRONG OXIDIZERS

HAZ POLYMERIZATION OCCUR
NO

CONDITIONS TO AVOID

AUTO IGN TEMP

VISCOSITY

CG AMMO CI

HAZARDOUS DECOMPOSITION PRODUCTS
THERMAL DECOMPOSOTION MAY YIELD CARBON MONOXIDE

* * * * SAFETY STORAGE HANDLING AND FIRE FIGHTING PROCEDURES * * * *

EXTINGUISHING MEDIA
FOAM, CO-2, DRY CHEMICAL

SPECIAL FIRE FIGHTING PROCEDURES
TREAT AS CLASS B FIRE

UNUSUAL FIRE / EXPLOSION HAZARDS
VAPORS MAY FORM EXPLOSIVE MIXTRUES W/AIR

PROTECTIVE GLOVES
YES

EMERGENCY FIRST AID PROCEDURES
EYE: FLUSH W/WATER. SKIN: WASH W/MILD SOAP & WATER, APPLY SKIN CREME. INHAL: REMOVE TO FRESH AIR, CALL MD. APPLY ART RESP IF NECESSARY.

TYPE OF RESPIRATORY PROTECTION
SELF-CONTAINED, APPROVED RESPIRATOR IF TLV IS EXCEEDED

VENTILATION
USE LOCAL EXHAUST

EYE PROTECTION
YES

OTHER PROTECTIVE EQUIPMENT
EYE BATH, SAFETY SHOWER

HANDLING / STORAGE PRECAUTIONS
E.USE W/ADEQUATE VENTILATION. AVOID PROLONGED OR REPEATED SKIN CONTACT.
KEEP AWAY FROM HEAT, SPARKS, OPEN FLAM

* * * * SPILL AND LEAK PROCEDURES * * * *

SPILL AND LEAK CONTROL
WEAR A RESPIRATOR. FLUSH W/WATER INTO RETAINING AREA OR CONTAINER. AVOID EXPOSURE TO SPARKS, FIRE, HOT METAL SURFACES.

WASTE ELIMINATION
LANDFILL OR INCINERATION IF IAW FED, STATE, LOCAL CODES, MFG REC.

OTHER PRECAUTIONS
DOT: COMBUSTIBLE LIQUID

SUPPLEMENTAL DATA
VAPOR PRESSURE: <80.

GLC019 M15 * * * HAZARDOUS ITEM BASIC PUBLICATION * * *

N S N	FSCM	MGR	F P IND	PN IND	PART NUMBER/TRADE NAME	ACT CD	DATE	PAGE NR
8010-00-527-0216	33333		N	A	MED.GRAY 16187 GLOSS ENAMEL		81309	1

* * * * GENERAL INFORMATION * * * *

PROPRIETARY: YES

MANUFACTURER: ZEBRA CORPORATION

EMERGENCY TELE NO: 404-873-2531

ITEM NAME: AEROSOL PROPELLANT

UI	UI CONTAINER QTY	TYPE OF CONT	NET UNIT WT	MAG/MILGAUS	EXEMPTION NO
GL	1 GAL				

SPECIFICATION: TT-E-487

RADIOACTIVITY: N/A FORM: TR GP: NRC LIC NUMBER: CHEMICAL NAME: CHEMICAL FAMILY: FORMULA:

* * * * * HAZARDOUS COMPONENTS * * * * *

NIOSH NO	CHEMICAL NAME	PCT	T L V

* * * * * * TRANSPORTATION DATA * * * * * *

DOT SHIPPING NAME: N/A

CLASS: LABEL: CODE: ID NO: RQ:

WATER SHIPPING NAME: PAINTS ENAMELS

CLASS: FLAMMABLE LIQUID LABEL: FLAMMABLE LIQUID UN NO: 1263 UN CLASS: 3.3 COM GP: DOT: NO INCO YES

TARIFF 6-D SHIPPING: N/A

CLASS: LABEL:

IATA SHIPPING NAME: N/A

CLASS: LABEL: IATA ARTICLE NO:

AFR 71-6 SHIPPING NAME: N/A

CLASS: LABEL: MMAC:

* * * * * ADDITIONAL DATA * * * * * *

ITEM REGULATED BY INCO BUT NOT REGULATED BY DOT IAW CFR 49 PARA 173,118A.COMBUSTIBLE LIQUID.

N S N

8010-00-527-0216

ACT CD DATE 81320 PAGE NR 2

*** * * * HEALTH AND PHYSICAL PROPERTY DATA * * * ***

BOILING POINT	VAP DEN/AIR=1/	SOL IN H2O	FLASH POINT	VAP PRESS/MM HG/70 F/	TLV-MIXTURE	STORAGE CODE
315-380F	4.9	NEGLIGIBLE	102F TCC	2		

APPEARANCE AND ODOR
OPAQUE LIQ-MILD PETROLEUM HYDROCARBON AROMA

LEL/PCT/	UEL/PCT/	SP GR	PCT VOLT BY VOL	EVAP RATE PER REFERENCE
0.7	6.0	1.25	46	0.08(BU AC)

EFFECTS OF OVEREXPOSURE
SEVERE EYE IRRIT, DRYING OF SKIN. EXCESSIVE INH CAUSES HDACHE, DIZZINESS & NAUSEA

NET PROP WT-AMMO N/A NEW LB

STABLE
YES

CONDITIONS TO AVOID
HEAT, SPARKS, OPEN FLAME & FIRE

MATERIALS TO AVOID
STRONG OXIDIZING AGENTS

HAZ POLYMERIZATION OCCUR
NO

CONDITIONS TO AVOID

AUTO IGN TEMP VISCOSITY CG AMMO CD

HAZARDOUS DECOMPOSITION PRODUCTS
CO IF BURNED W/INSUFFICIENT ARR

*** * * * SAFETY STORAGE HANDLING AND FIRE FIGHTING PROCEDURES * * * ***

EXTINGUISHING MEDIA
MECHANICAL FOAM, DRY CHEM, WATER FOG, CO*2

SPECIAL FIRE FIGHTING PROCEDURES
A STRAIGHT WATER STREAM WOULD SPREAD OIL FIRES

UNUSUAL FIRE / EXPLOSION HAZARDS
A VAPR ACCUMULATION WOULD FLASHB/OR EXPLODE IF IGNITED

PROTECTIVE GLOVES
YES

EMERGENCY FIRST AID PROCEDURES
EYE:FLUSH W/WATER. SKIN:WASH W/MILD SOAP & WATER & APPLY SKIN CREAM. INH:REMOVE TO FRESH AIR & CALL MD. DO NOT INDUCE VOMITIN G, CALL MD

TYPE OF RESPIRATORY PROTECTION
MIOSH/MSHA APPRVD SELF-CONT BRTHNG APPAR IF CONC AVE TLV

LOCAL EXHAUST (MFR)

VENTILATION

EYE PROTECTION
YES

OTHER PROTECTIVE EQUIPMENT
EYE BATH & SAFETY SHOWER

HANDLING / STORAGE PRECAUTIONS
KEEP AWAY FROM HEAT, SPARKS & OPEN FLA ME. USE W/ADEQ VENT. AVOID PROLONGED OR REPEATED CONTACT W/SKIN

*** * * * SPILL AND LEAK PROCEDURES * * * ***

SPILL AND LEAK CONTROL
AVOID OPEN FLAME & ALL SOURCES OF IGNITION. PROVIDE ADEQUATE VENT. COLLECT & DISPOSE OF SPILLED LIQ

WASTE ELIMINATION
MFR RECM INCINERATE UNDER SAFE CONDITIONS OR DISPOSE LAW FED, STATE AND LOCAL CODES

OTHER PRECAUTIONS
HANDLE AS A CLASS II COMBUSTIBLE LIQUID

SUPPLEMENTAL DATA

GLC019 J15 * * * HAZARDOUS ITEM BASIC PUBLICATION * * *

NSN	FSCM	MGR	F P IND	PN IND	PART NUMBER/TRADE NAME	ACT CD	DATE	PAGE NR
8010-00-527-0216	61945	GSA	G	A	TT-E-487E		85073	1

*** * * * GENERAL INFORMATION * * * ***

PROPRIETARY NO

MANUFACTURER: GRAHAM PAINT & VARNISH CO, INC

EMERGENCY TELE NO: 312-376-7676

ITEM NAME: PAINT, ENAMEL, FLOOR & DECK

UI: GL

UI CONTAINER QTY: 1 GALLON

TYPE OF CONT: CN

NET UNIT WT:

NAG/MILGAUS:

EXEMPTION NO:

AEROSOL PROPELLANT:

SPECIFICATION: TT-E-487

RADIOACTIVITY:

FORM:

TR GP:

NRC LIC NUMBER:

CHEMICAL NAME:

CHEMICAL FAMILY:

FORMULA:

*** * * * * HAZARDOUS COMPONENTS * * * * ***

MIXTN NO	CHEMICAL NAME	PCT	T L V
PT0240000	MINERAL SPIRITS	33	500 PPM
1000046PI	PIGMENTS	28	
1000268VE	VEHICLE	37	
1000972AS	ADDITIVE	1	

*** * * * * * TRANSPORTATION DATA * * * * * ***

DOT SHIPPING NAME: N/A

CLASS: LABEL: MODE: ID NO: RQ:

WATER SHIPPING NAME:

CLASS: LABEL: UN NO: UN CLASS: COM GP: DOT: INCO

TARIFF 6-D SHIPPING:

CLASS: LABEL:

IATA SHIPPING NAME:

CLASS: LABEL: IATA ARTICLE NO:

AFR 71-4 SHIPPING NAME:

CLASS: LABEL: NMAC:

*** * * * * * ADDITIONAL DATA * * * * * ***

DOT 173.118A APPLIES FOR COMBUSTIBLE LIQUIDS.

K15

N S N

8010-00-527-0216

ACT CD DATE PAGE NR

85073 2

* * * * HEALTH AND PHYSICAL PROPERTY DATA * * * *

BOILING POINT	VAP DEN/AIR=1/	SOL IN H20	FLASH POINT	VAP PRESS/MM HG/70 F/	TLV-MIXTURE	STORAGE CODE
315-380F	4.9	INSOL	102F, 39C TCC	2.0	500 PPM	

APPEARANCE AND ODOR
COLORED OPAQUE LIQUID WITH SLIGHT ALIPHATIC ODOR

LEL/PCT/	UEL/PCT/	SP GR	PCT VOLT BY VOL	EVAP RATE PER REFERENCE
1.0	6.0	1.14	48.5	0.2

EFFECTS OF OVEREXPOSURE
EYES-SEVERE IRRITATION. SKIN-IRRITATION OR DERMATITIS; INHALE-RESPIRATORY IRRITATION.

MET PROP WT-AMMO NEW LB

STABLE
YES

CONDITIONS TO AVOID

MATERIALS TO AVOID
AVOID CONTACT WITH STRONG OXIDIZING AGENTS.

HAZ POLYMERIZATION OCCUR
NO

CONDITIONS TO AVOID

AUTO IGN TEMP VISCOSITY CG AMMO CD

HAZARDOUS DECOMPOSITION PRODUCTS
CO2, CO, VARIOUS HYDROCARBONS

* * * * SAFETY STORAGE HANDLING AND FIRE FIGHTING PROCEDURES * * * *

EXTINGUISHING MEDIA
REGULAR FOAM, CO2 OR DRY CHEMICAL

SPECIAL FIRE FIGHTING PROCEDURES
WATER STREAM WILL SPREAD OIL FIRES.

UNUSUAL FIRE / EXPLOSION HAZARDS
VAPORS HEAVIER THAN AIR & MAY MOVE ALONG GROUND & BE IGNITED BY HEAT, PILOT LIGHTS OR IGNITIONSOURCE

PROTECTIVE GLOVES
IMPERVIOUS ONES

EMERGENCY FIRST AID PROCEDURES
EYES-FLUSH W WATER; GET MEDICAL HELP. SKIN-WASH W SOAP & WATER; USE EMOLLIENT CREAM, INHALE-MOVE TO FRESH AIR. SWALLOWED- DO NOT INDUCE VOMITING; GET MEDICAL HELP.

TYPE OF RESPIRATORY PROTECTION
ABOVE REC TLV USE SELF-CONTAINED BREATHING APPARATUS.

VENTILATION
TO KEEP EXPOSURE BELOW TLV LEVEL.

EYE PROTECTION
RECOMMEND SAFETY GOGGLES

OTHER PROTECTIVE EQUIPMENT
AS REQUIRED TO PREVENT WETTING CLOTHES.

HANDLING / STORAGE PRECAUTIONS
KEEP AWAY FROM HEAT & OPEN FLAME

* * * * SPILL AND LEAK PROCEDURES * * * *

SPILL AND LEAK CONTROL
ELIMINATE ALL IGNITION SOURCES. ABSORB ON INERT MATERIALS. DISPOSE OF IN CLOSED CONTAINERS.

WASTE ELIMINATION
INCINERATION OR LANDFILL IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS.

OTHER PRECAUTIONS

SUPPLEMENTAL DATA

GCL015 N 2

• • • HAZARDOUS ITEM QUARTERLY CHANGES • • •

NSN	FSCM	MGR	F P IND	PN IND	PART NUMBER/TRADE NAME	AFT CD	DATE	PAGE NR
4210-01-056-8343	33333		F	A	FC-780			

• • • • GENERAL INFORMATION • • • •

PROPRIETARY NO

MANUFACTURER: 3M 3M CENTER

EMERGENCY TELE NO: 612-7333-1110

ITEM NAME: AQUEOUS FILM-FORMING FOAM

UI | UI CONTAINER QTY | TYPE OF CONT | NET UNIT WT | MAG/MILGAUS | EXEMPTION N

AEROSOL PROPELLANT

RADIOACTIVITY | FORM | TR GP | NRC LIC NUMBER | CHEMICAL NAME | CHEMICAL FAMILY | SPECIFICATION

N/A | FIRE CONTROL AGENT | N/A | FORMULA

• • • • • HAZARDOUS COMPONENTS • • • • •

NIOSH NO	CHEMICAL NAME	PCT	
KJ9100000	BUTYL CARBITOL	14	
VV9275000	WATER (GLASS)	77	
LM6475000	FLUOROALIPHATIC SURFACTANTS	<5	
TR0400000	ORGANIC SURFACTANTS	<5	
YR6250000	UREA	4	

• • • • • • TRANSPORTATION DATA • • • • • •

DOT SHIPPING NAME:

CLASS: LABEL: MODE: ID NO: RQ:

WATER SHIPPING NAME:

CLASS: LABEL: UN NO: UN CLASS: COM GP: DOT: IMCO:

TARIFF 6-D SHIPPING:

CLASS: LABEL:

IATA SHIPPING NAME:

CLASS: LABEL: IATA ARTICLE NO:

AFR 71-4 SHIPPING NAME:

CLASS: LABEL: NMAC:

• • • • • • ADDITIONAL DATA • • • • • •

0 2

N S N

4210-01-056-8343

ACT CD DATE PAGE NR

83220 2

• • • • HEALTH AND PHYSICAL PROPERTY DATA • • • •

BOILING POINT 212 F | VAP DEN/AIR=1/ | SOL IN H2O | FLASH POINT N/A | VAP PRESS/MM HG/70 F/ | TLV-MIXTURE | STORAGE CODE C1

APPEARANCE AND ODOR
CLEAR, AMBER COLORED LIQUID

LEL/PCT/ | UEL/PCT/ | SP GR 1.01 | PCT VOLT BY VOL 92 | EVAP RATE PER REFERENCE ,

EFFECTS OF OVEREXPOSURE

NET PROP WT-AMMO | NET EXP WT

STABLE

CONDITIONS TO AVOID

MATERIALS TO AVOID

HAZ POLYMERIZATION OCCUR

CONDITIONS TO AVOID

AUTO IGN TEMP | VISCOSITY | CG AMMO CD

HAZARDOUS DECOMPOSITION PRODUCTS

• • • • SAFETY STORAGE HANDLING AND FIRE FIGHTING PROCEDURES • • • •

EXTINGUISHING MEDIA
FC-78C IS A FIRE EXTINGUISHING AGENT

SPECIAL FIRE FIGHTING PROCEDURES
N/A

UNUSUAL FIRE / EXPLOSION HAZARDS
TOXIC BY-PRODUCTS INCLUDING HF MAY BE FORMED

PROTECTIVE GLOVES

EMERGENCY FIRST AID PROCEDURES

TYPE OF RESPIRATORY PROTECTION

VENTILATION

EYE PROTECTION

OTHER PROTECTIVE EQUIPMENT

HANDLING / STORAGE PRECAUTIONS

• • • • SPILL AND LEAK PROCEDURES • • • •

SPILL AND LEAK CONTROL

WASTE ELIMINATION

OTHER PRECAUTIONS

SUPPLEMENTAL DATA

3M PRODUCT DESIGNATION IS AFFF

GLC019 L 6 * * * HAZARDOUS ITEM BASIC PUBLICATION * * *

N S N	FSCM	MGR	F P IND	PN IND	PART NUMBER/TRADE NAME	ACT CD	DATE	PAGE NR
8040-00-266-0849	03042		N	A	CARTER'S RUBBER CEMENT (SEE SUPP DATA)		83083	1

(31)

* * * * GENERAL INFORMATION * * * *

PROPRIETARY NO

MANUFACTURER
DENNISON MFG. CO, CARTER'S INK DIVISION

EMERGENCY TELE NO
(617)879-0511 X4630

ITEM NAME	UI TU	UI CONTAINER QTY	TYPE OF CONT	NET UNIT WT	MAG/MILGAUS	EXEMPTION NO
AEROSOL PROPELLANT		2.250 OZ				

RADIOACTIVITY	FORM	TR GP	NRC LIC NUMBER	CHEMICAL NAME	CHEMICAL FAMILY	SPECIFICATION	FORMULA
			N/A			MMM-A-185	

* * * * * HAZARDOUS COMPONENTS * * * * *

MIXTURE NO	CHEMICAL NAME	PCT	T L V
100000255	SOLVENTS(TYPE NOT SPECIFIED)		
CV14J0000	BENZENE(0.1 TO 0.5%)BENZENE IS A SUSPECT CARCINOGEN, ACCORDING TO ACGIH	05	10 PPM

* * * * * TRANSPORTATION DATA * * * * * *

DOT SHIPPING NAME: CEMENT, LIQ NOS, SOLVENTS

CLASS: FLAMMABLE LIQUID LABEL: FLAMMABLE LIQUID MODE: ID NO: RQ:

WATER SHIPPING NAME: ADHESIVES

CLASS: FLAMMABLE LIQUID LABEL: FLAMMABLE LIQUID UN NO: 1133 UN CLASS: 3.2 COM GP: DOT: YES IMCO YES

TARIFF 6-D SHIPPING: CEMENT, LIQ NOS, SOLVENTS

CLASS: FLAMMABLE LIQUID LABEL: FLAMMABLE LIQUID

IATA SHIPPING NAME: ADHESIVES

CLASS: FLAMMABLE LIQUID LABEL: FLAMMABLE LIQUID IATA ARTICLE NO: 1133

AFB 71-4 SHIPPING NAME: CEMENT, LIQ NOS, SOLVENTS

CLASS: FLAMMABLE LIQUID LABEL: FLAMMABLE LIQUID NMAC:

* * * * * ADDITIONAL DATA * * * * * *

M 6

M S H

ACT CD DATE PAGE NR

6040-00-266-0849 * * * * HEALTH AND PHYSICAL PROPERTY DATA * * * * 85135 2

BOILING POINT: 130 TO 237F
VAP DEN/AIR=1/: 2.9
SOL IN H2O:
FLASH POINT OF TCC:
VAP PRESS/MM HG/70 F/: 250
TLV-MIXTURE:
STORAGE CODE:

APPEARANCE AND ODOR
BUFF COLORED VISCOUS LIQUID W/HYDROCARBON ODOR.

LEL/PCT/: 1.0
UEL/PCT/: 7.5
SP GR: 0.719
PCT VOLT BY VOL: 87
EVAP RATE PER REFERENCE: 7.6 N-BUTYL ACET.

EFFECTS OF OVEREXPOSURE
ANESTHESIA-HEADACHE, NAUSEA, DIZZINESS, ETC.

NET PROP WT-AMMO: N/A
NEW LB:

STABLE: YES

CONDITIONS TO AVOID

MATERIALS TO AVOID

HAZ POLYMERIZATION OCCUR: NO

CONDITIONS TO AVOID

AUTO IGN TEMP

VISCOSITY

CG AMMO CD:

HAZARDOUS DECOMPOSITION PRODUCTS
CO, CO-2 WHEN COMBUSTED.

* * * * SAFETY STORAGE HANDLING AND FIRE FIGHTING PROCEDURES * * * *

EXTINGUISHING MEDIA
FOAM CO-2, STEAM DRY CHEMICALS

SPECIAL FIRE FIGHTING PROCEDURES
DO NOT USE WATER EXCEPT AS A FOG.

UNUSUAL FIRE / EXPLOSION HAZARDS
HANDLE AS A FLAMMABLE LIQUID.

PROTECTIVE GLOVES
NOT NORM REQ.

EMERGENCY FIRST AID PROCEDURES
INHAL:REMOVE VICTIM & RESTORE BREATING IF NEC. SKIN:REMOVE LIQUID FROM SKIN W/SOAP & WATER. EYE:IMMEDIATELY FLUSH W/WATER AT LEAST 15 MINS. CALL MD IF NECESSARY. REFER TO CONTAINER.

TYPE OF RESPIRATORY PROTECTION

VENTILATION
MECHANICAL-CLASS B APPR. EXPLOSION PROOF MOTORS & SWITCHES

EYE PROTECTION
NORM NOT REQ.
AVOID SPLASH FILLING AND EXCESSIVE HEAT.

OTHER PROTECTIVE EQUIPMENT

HANDLING / STORAGE PRECAUTIONS
AVOID OPEN FLAMES AND SPARK SOURCES. A

* * * * SPILL AND LEAK PROCEDURES * * * *

SPILL AND LEAK CONTROL
AVOID OPEN FLAME & SOURCES OF IGNITION. PROVIDE ADEQUATE VENTILATION. EVAPORATE & PEEL RESIDUE FROM SURFACE. POOLS OF MATERIAL CAN BE PACKED UP & REMOVED TO CONTAINER. TREAT AS HYDROCARBON SOLVENT.

WASTE ELIMINATION
DISPOSE IN ACCORDANCE W/LOCAL, STATE & FEDERAL REGULATIONS.

OTHER PRECAUTIONS

READ CAREFULLY ALL DIRECTIONS & CAUTIONS AS PRINTED ON CONTAINER S.

SUPPLEMENTAL DATA

PER PHONECON W/MFR 12/20/82, PRODUCT NO LONGER CONTAINS BENZENE. BOILING PT, VAPOR DENSITY & EVAPL RATE ARE GIVEN FOR SOLVENT. VAPOR PRESSURE IS GIVEN AT 100C. SPEC. GRAV. IS GIVEN AT 25C.

GLC019 N 6 * * * HAZARDOUS ITEM BASIC PUBLICATION * * *

N S N	FSCM	NCR	F P IND	PN IND	PART NUMBER/TRADE NAME	ACT CD	DATE	PAGE NR
8040-00-266-0849	03042		N	B	CARTER'S RUBBER CEMENT (NEW FORMULA)			1

* * * * GENERAL INFORMATION * * * *

PROPRIETARY NO

MANUFACTURER
DENNISON MFG. CO, CARTER'S INK DIVISION

EMERGENCY TELE NO
(617)879-0511X4630

ITEM NAME	UI	UI CONTAINER QTY	TYPE OF CONT	NET UNIT WT	MAG/MILGAUS	EXEMPTION NO
ADHESIVE						

AEROSOL PROPELLANT

SPECIFICATION
MMM-A-00185

RADIOACTIVITY	FORM	TR GP	NRC LIC NUMBER	CHEMICAL NAME	CHEMICAL FAMILY	FORMULA

* * * * * HAZARDOUS COMPONENTS * * * * *

MEGEN NO	CHEMICAL NAME	PCT	T L V
1000294AA	NAPHTHENES	8.5	
1000019PA	PARAFFINS	76.5	

* * * * * * TRANSPORTATION DATA * * * * * *

DOT SHIPPING NAME:

CLASS: LABEL: MODE: ID NO: RQ:

WATER SHIPPING NAME:

CLASS: LABEL: UN NO: UN CLASS: COM GP: DOT: INCO

TARIFF 6-D SHIPPING:

CLASS: LABEL:

IATA SHIPPING NAME:

CLASS: LABEL: IATA ARTICLE NO:

AFR 71-4 SHIPPING NAME:

CLASS: LABEL: NMAC:

* * * * * * ADDITIONAL DATA * * * * * *

0 6

M S N

ACT CD DATE PAGE NR

8040-00-266-0849 * * * * HEALTH AND PHYSICAL PROPERTY DATA * * * * 85135 2

BOILING POINT 150-206F | VAP DEN/AIR=1/ 3.2 | SOL IN H2O NEGLIGIBLE | FLASH POINT OF TCC | VAP PRESS/MM HG/70 F/ 91 | TLV-MIXTURE | STORAGE CODE

APPEARANCE AND ODOR
CONS LIQ W/HYDROCARBON ODOR

LEL/PCT/ 1.0 | UEL/PCT/ 8.0 | SP GR 0.72 | PCT VOLT BY VOL 87 | EVAP RATE PER REFERENCE BUFFED COLORED VIS

EFFECTS OF OVEREXPOSURE
EYE IRRIT. DRYING OF SKIN. EXCESSIVE INH:HEADACHE, DIZZINESS, NAUSEA.

MET PROP WT-AMMO | MEM LB

STABLE
YES

CONDITIONS TO AVOID
HEAT,SPARKS, OPEN FLAME

MATERIALS TO AVOID

HAZ POLYMERIZATION OCCUR
NO

CONDITIONS TO AVOID

AUTO IGN TEMP | VISCOSITY | CG AMMO CD

HAZARDOUS DECOMPOSITION PRODUCTS

* * * * SAFETY STORAGE HANDLING AND FIRE FIGHTING PROCEDURES * * * *

EXTINGUISHING MEDIA
CO=2, FOAM, DRY CHEMICAL

SPECIAL FIRE FIGHTING PROCEDURES

UNUSUAL FIRE / EXPLOSION HAZARDS
HANDLE AS A FLAMMABLE LIQUID

PROTECTIVE GLOVES
YES

EMERGENCY FIRST AID PROCEDURES
EYE:FLUSH W/ WATER. SKIN:WASH W/SOAP & WATER. INHALATION:REMOVE TO FRESH AIR & RESTORE BREATHING.

TYPE OF RESPIRATORY PROTECTION
USE NIOSH/MSHA APPRVD TYPE IF CONDITIONS REQUIRE.

VENTILATION
MECHANICAL :EXPLOSION PROOF MOTORS & SWITCHES.

EYE PROTECTION
YES

OTHER PROTECTIVE EQUIPMENT
SPLASH FILLING, EXCESSIVE HEAT.

HANDLING / STORAGE PRECAUTIONS
AVOID OPEN FLAMES & SPARKS SOURCES, SP

* * * * SPILL AND LEAK PROCEDURES * * * *

SPILL AND LEAK CONTROL
AVOID OPEN FLAME OR SPARK SOURCES. PROVIDE ADQUATE VENTILATION. REFER TO CONTAINER LABEL.

WASTE ELIMINATION
MFR RECM EVAPORATE & PEEL RESIDUE FROM SURFACE. POOLS OF MATERIAL CAN BE PICKED UP & REMOVED TO CONTAINER. TREAT AS HYDROCARB ON SOLVENT.

OTHER PRECAUTIONS
READ CAREFULLY ALL DIRECTIONS & CAUTIONS AS PRINTED ON THE PRODU CT CONTAINER.

SUPPLEMENTAL DATA
PER PHONECON W/MFR 12/28/82, PRODUCT NO LONGER CONTAINS BENZENE. VAPOR PRESSURE MEASURED AT 68F.

GLC019 A 7 * * * HAZARDOUS ITEM BASIC PUBLICATION * * *

NSN	FSCM	MGR	F P IND	PN IND	PART NUMBER/TRADE NAME	ACT CD	DATE	PAGE NR
A 8040-00-266-0849	6U258	GSA	G	A	CARTER'S RUBBER CEMENT	A	85134	1

*** * * * GENERAL INFORMATION * * * ***

PROPRIETARY NO	MANUFACTURER	EMERGENCY TELE NO
	DENNISON MFG COMPANY, CARTER'S INK DIVISION	617-879-0511 X141

ITEM NAME	UI	UI CONTAINER QTY	TYPE OF CONT	NET UNIT WT	MAG/NILSAUS	EXEMPTION NO
RUBBER CEMENT	QT	1 QT	CAN			

AEROSOL PROPELLANT

SPECIFICATION MMM-A-185

RADIOACTIVITY	FORM	TR GP	NRC LIC NUMBER	CHEMICAL NAME	CHEMICAL FAMILY	FORMULA

*** * * * * HAZARDOUS COMPONENTS * * * * ***

NIOSH NO	CHEMICAL NAME	PCT	T L V
100009288	SOLVENTS	85	
CY1400000	BENZENE	0.3	

*** * * * * * TRANSPORTATION DATA * * * * * ***

DOT SHIPPING NAME: CEMENT, RUBBER

CLASS: FLAMMABLE LIQUID LABEL: NONE-LIMITED QUANTITY MODE: N/A ID NO: UN1263 RQ: NO

WATER SHIPPING NAME:

CLASS: LABEL: UN NO: UN CLASS: CON GP: DOT: INCO

TARIFF 6-D SHIPPING:

CLASS: LABEL:

IATA SHIPPING NAME:

CLASS: LABEL: IATA ARTICLE NO:

AFR 71-4 SHIPPING NAME:

CLASS: LABEL: MHAC:

*** * * * * * ADDITIONAL DATA * * * * * ***

DOT 173.118 APPLIES FOR LIMITED QUANTITY OF FLAMMABLE LIQUIDS.

B 7

N S N

8040-00-266-0849

ACT CD DATE PAGE NR

A 85123 2

* * * * HEALTH AND PHYSICAL PROPERTY DATA * * * *

BOILING POINT	VAP DEN/AIR=1/	SOL IN H2O	FLASH POINT	VAP PRESS/MM HG/70 F/	TLV-MIXTURE	STORAGE COD
139-237	2.9		OF, -18C	250		

APPEARANCE AND ODOR

BUFF COLORED VISCOUS LIQUID W HYDROCARBON ODOR

LEL/PCT/	UEL/PCT/	SP GR	PCT VOLT BY VOL	EVAP RATE PER REFERENCE
1.0	7.5	0.719	87	7.6/BUAC

EFFECTS OF OVEREXPOSURE

ANESTHESIA-HEADACHE, NAUSEA, DIZZINESS,ETC.

MET PROP WT-ANHO NEW LB

STABLE
YES

CONDITIONS TO AVOID

MATERIALS TO AVOID

CO, CO2 WHEN COMBUSTED

HAZ POLYMERIZATION OCCUR
NO

CONDITIONS TO AVOID

AUTO IGN TEMP VISCOSITY CG ANHO CI

HAZARDOUS DECOMPOSITION PRODUCTS

* * * * SAFETY STORAGE HANDLING AND FIRE FIGHTING PROCEDURES * * * *

EXTINGUISHING MEDIA

FOAM, CO2, STEAM, DRY CHEM

SPECIAL FIRE FIGHTING PROCEDURES

DO NOT USE WATER EXCEPT AS FOG

UNUSUAL FIRE / EXPLOSION HAZARDS

HANDLE AS A FLAMMABLE LIQUID

PROTECTIVE GLOVES
NORMALLY NONE

EMERGENCY FIRST AID PROCEDURES

REMOVE VICTIM & RESTORE BREATHING IF REQ'D. REMOVE LIQUID FROM SKIN W SOAP & WATER. FLUSH EYES W WATER. REFER TO CONTAINER.

TYPE OF RESPIRATORY PROTECTION

VENTILATION

MECH-CLASS D APPROVED EXPLOSION PROOF MOTORS & SWITCHES

EYE PROTECTION
NORMALLY NONE

OTHER PROTECTIVE EQUIPMENT

HANDLING / STORAGE PRECAUTIONS

AVOID OPEN FLAMES & SPARKS SOURCES, SP

LASH FILLING, & AS HEAT.

* * * * SPILL AND LEAK PROCEDURES * * * *

SPILL AND LEAK CONTROL

AVOID IGNITION SOURCES. PROVIDE ADEQUATE VENTILATION. REFER TO CONTAINER LABEL.

WASTE ELIMINATION

EVAPORATE & PEEL RESIDUE FROM SURFACE. POOLS OF MAT'L CAN BE PICKED UP & REMOVED TO CONTAINER. TREAT AS HYDROCARBON SOLVENT.

OTHER PRECAUTIONS

SUPPLEMENTAL DATA

READ CAREFULLY ALL DIRECTIONS & CAUTIONS AS PRINTED ON CONTAINER
S.

GLC019 A13 * * * HAZARDOUS ITEM BASIC PUBLICATION * * *

NSN	FSCM	MGR	F P IND	PN IND	PART NUMBER/TRADE NAME	ACT CD	DATE	PAGE NR
8010-00-815-2692	34346		N	A	ALUMINUM PAINT		85045	1

34

* * * * GENERAL INFORMATION * * * *

PROPRIETARY NO

MANUFACTURER
SENTRY PAINT & CHEMICAL CO, DARBY,PA.19023

EMERGENCY TELE NO
215-GL9-5320

ITEM NAME	UI	UI CONTAINER QTY	TYPE OF CONT	NET UNIT WT	MAG/MILGAUS	EXEMPTION I
AEROSOL PROPELLANT						

SPECIFICATION

RADIOACTIVITY	FORM	TR GP	NRC LIC NUMBER	CHEMICAL NAME	CHEMICAL FAMILY	FORMULA

* * * * * HAZARDOUS COMPONENTS * * * * *

NIOSH NO	CHEMICAL NAME	PCT	T L V
BB0330000	ALUMINUM	23.0	
VW1620000	SILICON ALKYD	18.0	
SE7555000	VM&P NAPHTHA	59	1350 MG/CUM

* * * * * * TRANSPORTATION DATA * * * * * *

DOT SHIPPING NAME: PAINT

CLASS: FLAMMABLE LIQUID LABEL: FLAMMABLE LIQUID MODE: ID NO: UN1263 RQ:

WATER SHIPPING NAME: PAINT

CLASS: FLAMMABLE LIQUID LABEL: FLAMMABLE LIQUID UN NO: 1263 UN CLASS: 3.2 CON GP: DOT: YES IMCO YE

TARIFF 6-D SHIPPING: N/A REFER TO 49 CFR

CLASS: LABEL:

IATA SHIPPING NAME: PAINT

CLASS: FLAMMABLE LIQUID LABEL: FLAMMABLE LIQUID IATA ARTICLE NO: 1263

AFR 71-4 SHIPPING NAME: PAINT

CLASS: FLAMMABLE LIQUID LABEL: FLAMMABLE LIQUID MMAC:

* * * * * * ADDITIONAL DATA * * * * * *

B13

N S N

ACT CD DATE PAGE 1

8010-00-815-2692

* * * * HEALTH AND PHYSICAL PROPERTY DATA * * * *

80116

BOILING POINT	VAP DEN/AIR=1/	SOL IN H20	FLASH POINT	VAP PRESS/MM HG/70 F/	TLV-MIXTURE	STORAGE
245-265F	3.8	NEG	55F TCC	30		

APPEARANCE AND ODOR

LEL/PCT/	UEL/PCT/	SP GR	PCT VOLT BY VOL	EVAP RATE PER REFERENCE
1.0	7.0		61.0	FASTER THAN NBUACT

EFFECTS OF OVEREXPOSURE

DIZZINESS,HEADACHE AND NAUSEA

NET PROP WT-AMMO NEW 1

STABLE
YES

CONDITIONS TO AVOID

MATERIALS TO AVOID

HAZ POLYMERIZATION OCCUR
NO

CONDITIONS TO AVOID

AUTO IGN TEMP VISCOSITY CG AMM

HAZARDOUS DECOMPOSITION PRODUCTS

* * * * SAFETY STORAGE HANDLING AND FIRE FIGHTING PROCEDURES * * * *

EXTINGUISHING MEDIA

FOAM,CO2,DRY CHEMICAL

SPECIAL FIRE FIGHTING PROCEDURES

USE EQUIPMENT SUPPLIED AIR SUPPLY FOR ENCLOSED AREAS.

UNUSUAL FIRE / EXPLOSION HAZARDS

COMBUSTIBLE LIQUID

PROTECTIVE GLOVES

EMERGENCY FIRST AID PROCEDURES

REMOVE TO RESH AIR. GIVE ARTIFICIAL RESPIRATION IF BREATHING STOPS.

TYPE OF RESPIRATORY PROTECTION

CARTRIDGE TYPE RESPIRATOR

LOCAL EXHAUST

VENTILATION

EYE PROTECTION

OTHER PROTECTIVE EQUIPMENT

HANDLING / STORAGE PRECAUTIONS

AVOID OPEN FLAME AND HIGH TEMPERATU

* * * * SPILL AND LEAK PROCEDURES * * * *

SPILL AND LEAK CONTROL

CLEAN UP AS ANY FLAMMABLE LIQUID. AVOID SPARKS, USE DRY ABSORBENT IF POSSIBLE

WASTE ELIMINATION

OTHER PRECAUTIONS

SUPPLEMENTAL DATA

GLC019 C13 * * * HAZARDOUS ITEM BASIC PUBLICATION * * *

N S N	FSCM	MGR	F P IND	PN IND	PART NUMBER/TRADE NAME	ACT CD	DATE	PAGE NR
8010-00-815-2692	34346		N	B	X-5767,ALUM HEAT RESIST PAINT,1200F,COMP L			1

* * * * GENERAL INFORMATION * * * *

PROPRIETARY NO

MANUFACTURER
SENTRY PAINT & CHEMICAL CO.

EMERGENCY TELE NO
215-522-1900

ITEM NAME	UI	UI CONTAINER QTY	TYPE OF CONT	NET UNIT WT	MAG/MILGAUS	EXEMPTION NO
AEROSOL PROPELLANT						

SPECIFICATION
TT-P-28

RADIOACTIVITY	FORM	TR GP	NRC LIC NUMBER	CHEMICAL NAME	CHEMICAL FAMILY	FORMULA
			N/A			

* * * * * HAZARDOUS COMPONENTS * * * * *

NIOSH NO	CHEMICAL NAME	PCT	T L V
*SE7555000	*MINERAL SPIRITS (AROMATIC EXEMPT)	*49.2	*200 PPM (MFR)
*SE7555000	*VARNISH MAKERS & PAINTERS NAPHTHA	*10	*300 PPM

* * * * * * TRANSPORTATION DATA * * * * * *

DOT SHIPPING NAME:

CLASS: LABEL: MODE: ID NO: RQ:

WATER SHIPPING NAME:

CLASS: LABEL: UN NO: UN CLASS: CON GP: DOT: IMCO

TARIFF 6-B SHIPPING:

CLASS: LABEL:

IATA SHIPPING NAME:

CLASS: LABEL: IATA ARTICLE NO:

AFR 71-4 SHIPPING NAME:

CLASS: LABEL: MMAC:

* * * * * * ADDITIONAL DATA * * * * * *

D13

N S N

8010-00-815-2692	ACT CD	DATE	PAGE NR
* * * * HEALTH AND PHYSICAL PROPERTY DATA * * * *	C	85009	2

BOILING POINT	VAP DEN/AIR=1/ >1	SOL IN H2O	FLASH POINT FLAMMABLE	VAP PRESS/MM HG/70 F/	TLV-MIXTURE	STORAGE CODE

APPEARANCE AND ODOR

LEL/PCT/	UEL/PCT/	SP GR	PCT VOLT BY VOL	EVAP RATE PER REFERENCE
				<1 (ETHER)

EFFECTS OF OVEREXPOSURE

EYE/SKIN:IRRIT/DEFAT. VAPORS:NASAL & RESP IRRIT,ASPHYXIATION. INGESTION:GI IRRIT,CHEM PNEUMONITIS.

NET PROP WT-AMMO: N/A

NEW LB

STABLE	CONDITIONS TO AVOID	MATERIALS TO AVOID
YES	IGNITION SOURCES=	STRONG OXIDIZERS

HAZ POLYMERIZATION OCCUR	CONDITIONS TO AVOID	AUTO IGN TEMP	VISCOSITY	CG AMMO CD
NO				

HAZARDOUS DECOMPOSITION PRODUCTS

CO,CO-2, VARIOUS HYDROCARBONS,ACROLEIN, ETC.

* * * * SAFETY STORAGE HANDLING AND FIRE FIGHTING PROCEDURES * * * *

EXTINGUISHING MEDIA

FOAM, CO-2, DRY CHEM.(WATER MAY BE INEFFECTIVE).

SPECIAL FIRE FIGHTING PROCEDURES

SELF-CONT BREATH APP,WATER SPRAY TO COOL NEARBY CONTAINERS.

UNUSUAL FIRE / EXPLOSION HAZARDS

VAPORS MAY SPREAD LONG DISTANCES & IGNITE EXPLOSIVELY,WATER/FOAM MAY FROTH WHICH CAN BE VIOLENT.

PROTECTIVE GLOVES

WEAR RESISTANT

EMERGENCY FIRST AID PROCEDURES

*EYE: FLUSH WITH WATER 15 MIN,CONSULT PHYSICIAN. SKIN: WASH WITH SOAP & WATER,REMOVE & WASH CONTAMINATED CLOTHING BEFORE REUSE . INGESTION: DO NOT INDUCE VOMITING,GET MEDICAL ATTN. INHALATION: REMOVE TO FRESH AIR,GIVE ARITIF RESP,GET MEDICAL ATTN.

TYPE OF RESPIRATORY PROTECTION

NIOSH/MSHA APPROVED RESP DEVICE IN ACCORD WITH XPOSURE OF CONCERN.

VENTILATION

MECHANICAL OR LOCAL EXHAUST TO MAINTAIN EXPOSURE BELOW TLV.

EYE PROTECTION

CHEM SPLASH GOGGLES

OTHER PROTECTIVE EQUIPMENT

*EYE WASH,SHOWER,LONG SLEEVE & LEG CLOTHING.

HANDLING / STORAGE PRECAUTIONS

KEEP OUT OF SUN & AWAY FROM HEAT. GROU

ND CONTAINER WHEN POURING, LIMIT FREE FALL OF LIQUID TO A FEW INCHES. KEEP DRUM CLOSED & UPRIGHT WHEN NOT IN USE

* * * * SPILL AND LEAK PROCEDURES * * * *

SPILL AND LEAK CONTROL

*SHUT OFF LEAK,SECURE IGNITION SOURCES. EXCLUDE PERSONNEL WITHOUT PROPER PROTECTIVE EQUIPMENT & RESPIRATORS FROM AREA. DIKE SP ILL WITH INERT MATERIAL. PICK UP WITH NON-SPARKING TOOLS. KEEP OUT OF SEWERS & OPEN BODIES OF WATER.

WASTE ELIMINATION

*BY METHODS CONSISTENT WITH LOCAL,STATE AND FEDERAL REGULATIONS FOR LIQUID & CONTAMINATED DIKING MATERIAL.

OTHER PRECAUTIONS

*DO NOT CUT,PUNCTURE OR WELD ON OR NEAR CONTAINER,EMPTY CONTAINER MAY CONTAIN EXPLOSIVE VAPORS OR DANGEROUS RESIDUE. KEEP FROM SO URCES OF IGNITION.

SUPPLEMENTAL DATA

CONTAINER SIZE: 1 GAL

GLC019 E13 * * * HAZARDOUS ITEM BASIC PUBLICATION * * *

N S N	FSCM	MGR	F P IND	PN IND	PART NUMBER/TRADE NAME	ACT CD	DATE	PAGE N
8010-00-815-2692	84239		F	A	ALUMINUM			

* * * * GENERAL INFORMATION * * * *

PROPRIETARY NO

MANUFACTURER
ATLAS PAINT & VARNISH CO.

EMERGENCY TELE NO
201-373-3300

ITEM NAME	UI	UI CONTAINER QTY	TYPE OF CONT	NET UNIT WT	MAG/MILGAUS	EXEMPTION
AEROSOL PROPELLANT						

SPECIFICATION
TT-P-28

RADIOACTIVITY	FORM	TR GP	NRC LIC NUMBER	CHEMICAL NAME	CHEMICAL FAMILY	FORMULA

* * * * * HAZARDOUS COMPONENTS * * * * *

NIOSH NO	CHEMICAL NAME	PCT	T L V
BB0330000	ALUMINUM PASTE	25.0	
1000?39AR	ALKYD RESIN	37.0	
XS5250000	TOLUENE		8375 MG/CUM
SE7555000	VM & P NAPHTHA		1350 MG/CUM
F01400000	BUTANOL		

* * * * * * TRANSPORTATION DATA * * * * * *

DOT SHIPPING NAME:

CLASS: LABEL: MODE: ID NO: RQ:

WATER SHIPPING NAME:

CLASS: LABEL: UN NO: UN CLASS: COM GP: DOT: IMCO

TARIFF 6-D SHIPPING:

CLASS: LABEL:

IATA SHIPPING NAME:

CLASS: LABEL: IATA ARTICLE NO:

AFR 71-4 SHIPPING NAME:

CLASS: LABEL: NMAC:

* * * * * * ADDITIONAL DATA * * * * * *

F13

M S N

8010-00-815-2692

ACT CD DATE PAGE NR

79289 2

* * * * HEALTH AND PHYSICAL PROPERTY DATA * * * *

BOILING POINT	VAP DEN/AIR=1/	SOL IN H2O	FLASH POINT	VAP PRESS/MM HG/70 F/	TLV-MIXTURE	STORAGE CODE
317-388F	4.8	NEGATIVE	108F TCC	<5		

APPEARANCE AND ODOR
THIN ALUMINUM PAINT-SLIGHT AROMATIC ODOR

LEL/PCT/	UEL/PCT/	SP GR	PCT VOLT BY VOL	EVAP RATE PER REFERENCE
0.09	6.0	1.2	53.0	SLOWER THAN BUTYL

EFFECTS OF OVEREXPOSURE
INHALATION OF HIGH CONCENTRATION W/O PROPER VENT. MAY CAUSE MILD DEPRESSION & LOSS OF CONSCIOUSNESS.

NET PROP WT-AMMO NEW LB

STABLE
YES

CONDITIONS TO AVOID
OPEN FLAME

MATERIALS TO AVOID
OXYGEN AND STRONG OXIDENTS

HAZ POLYMERIZATION OCCUR
NO

CONDITIONS TO AVOID

AUTO IGN TEMP VISCOSITY CG AMMO CD

HAZARDOUS DECOMPOSITION PRODUCTS
CO AND CO2 WHEN COMBUSTED

* * * * SAFETY STORAGE HANDLING AND FIRE FIGHTING PROCEDURES * * * *

EXTINGUISHING MEDIA
CO2-FOAM-DRY CHEMICAL-WATER FOG

SPECIAL FIRE FIGHTING PROCEDURES
USE AIR SUPPLIED RESCUE EQUIPMENT-COOL EXPOSED CONTAINERS

UNUSUAL FIRE / EXPLOSION HAZARDS

PROTECTIVE GLOVES
RECOMMEND

EMERGENCY FIRST AID PROCEDURES
REMOVE FROM EXPOSURE-CALL PHYSICIAN, FLUSH AFFECTED PARTS WITH WATER.

TYPE OF RESPIRATORY PROTECTION

VENTILATION
LOCAL EXHAUST MOST DESIRABLE

EYE PROTECTION
RECOMMEND

OTHER PROTECTIVE EQUIPMENT
CONVENTIONAL CLOTHES FOR PAINTING

HANDLING / STORAGE PRECAUTIONS
AVOID OPEN FLAMES-SPARKS AND EXCESSIVE HEAT-VENTILATE AREA.

* * * * SPILL AND LEAK PROCEDURES * * * *

SPILL AND LEAK CONTROL
WIPE UP IMMEDIATELY AND DISCARD ABSORBENTS SAFELY. REMOVE OPEN IGNITION. DIKE LARGE SPILLS AND PUMP INTO WASTE TANK. KEEP VENTILATED AND AVOID PROLONGED BREATHING OF VAPORS.

WASTE ELIMINATION

OTHER PRECAUTIONS
READ LABEL REGARDING TOXICITY AND APPLICATION.

SUPPLEMENTAL DATA
CONTAINS ZIRCO

GLC019 N 7 * * * HAZARDOUS ITEM BASIC PUBLICATION * * *

NSN	FSCM	MGR	F P IND	PN IND	PART NUMBER/TRADE NAME	ACT CD	DATE	PAGE NR
8010-00-721-9742	59581	GSA	G	A	GP-0001-0075		85142	1

*** * * * GENERAL INFORMATION * * * ***

PROPRIETARY	MANUFACTURER	EMERGENCY TELE NO
*NO	SEYMOUR OF SYCAMORE,INC.	815-895-9101

ITEM NAME	UI PT	UI CONTAINER QTY	TYPE OF CONT	NET UNIT WT	MAG/MILGAUS	EXEMPTION NO
*AEROSOL LACQUER		1 PT	AEROSOL CAN			

AEROSOL PROPELLANT

PROPANE/ISOBUTANE

SPECIFICATION
*A-A-665

RADIOACTIVITY	FORM	TR GP	NRC LIC NUMBER	CHEMICAL NAME	CHEMICAL FAMILY	FORMULA

*** * * * * HAZARDOUS COMPONENTS * * * * ***

NIOSH NO	CHEMICAL NAME	PCT	T L V
PY8240000	MINERAL SPIRITS	1.23	.70
ZP1400000	VARNISH MAKERS AND P/ NTER NAPHTHA	6.57	
XS5250000	TOLUENE	18	
ZE2100000	XYLENE	2.80	
PL5775000	METHYLENE CHLORIDE	25	

*** * * * * TRANSPORTATION DATA * * * * ***

DOT SHIPPING NAME: CONSUMER COMMODITY

CLASS: ORM-D LABEL: MODE: N/A ID NO: N/A RQ: NO

WATER SHIPPING NAME:

CLASS: LABEL: UN NO: UN CLASS: COM GP: . DOT: INCO

TARIFF 6-D SHIPPING:

CLASS: LABEL:

IATA SHIPPING NAME:

CLASS: LABEL: IATA ARTICLE NO:

AFR 71-4 SHIPPING NAME:

CLASS: LABEL: HMAC:

*** * * * * ADDITIONAL DATA * * * * ***

DOT 173.1200(8) APPLIES TO COMPRESSED GASES SHIPPED AS CONSUMER COMMODITY.

0 7

N S N

6810-00-721-9742					ACT CD	DATE	PAGE NR
					C	85121	2

* * * * HEALTH AND PHYSICAL PROPERTY DATA * * * *

BOILING POINT	VAP DEN/AIR=1/	SOL IN H20	FLASH POINT	VAP PRESS/MM HG/70 F/	TLV-MIXTURE	STORAGE CODE
NA			10F			

APPEARANCE AND ODOR

LEL/PCT/	UEL/PCT/	SP GR	PCT VOLT BY VOL	EVAP RATE PER REFERENCE
			85	

EFFECTS OF OVEREXPOSURE

INHA.-RESP AND NERVOUS TRACT DAMAGE POSSIBLE. MAY IRRITATE EYES.

NET PROP WT-AMMO NEW LB

STABLE	CONDITIONS TO AVOID	MATERIALS TO AVOID
YES	OPEN FLAME	

HAZ POLYMERIZATION OCCUR	CONDITIONS TO AVOID	AUTO IGN TEMP	VISCOSITY	CG AMMO CD
NO	NA			

HAZARDOUS DECOMPOSITION PRODUCTS

*HAZ FUMES WHEN HEATED. FUMES MAY CONTAIN (SEE SUPP DATA)

* * * * SAFETY STORAGE HANDLING AND FIRE FIGHTING PROCEDURES * * * *

EXTINGUISHING MEDIA

USE CARBON DIOXIDE,DRY CHEMICAL OR FOAM

SPECIAL FIRE FIGHTING PROCEDURES

*WATER COOL CONTAINERS.FOG NOZZLES.USE SELF CONT BREATH GEAR

UNUSUAL FIRE / EXPLOSION HAZARDS

EXPOSURE TO HEAT MAY CAUSE CAN TO BURST.

PROTECTIVE GLOVES

OPTIONAL

EMERGENCY FIRST AID PROCEDURES

FUMES-REMOVE FROM EXPO,RESTORE BREATHING.KEEP WARM AND QUIET.CALL DOCTOR. EYES-FLUSH WITH WATER. CALL DOCTOR. SKIN-WASSH SOAP AND WATER. REMOVE CONTAMINATED CLOTHING.

TYPE OF RESPIRATORY PROTECTION

AVOID VAPORS AND SPRAY MIST

VENTILATION

ADEQUATE

EYE PROTECTION

SAFETY GOGGLES

OTHER PROTECTIVE EQUIPMENT

HANDLING / STORAGE PRECAUTIONS

DO NOT STORE ABOVE 120F.EXPOSURE TO HE

AT OR SUN MAY CAUSE BURSTING.

* * * * SPILL AND LEAK PROCEDURES * * * *

SPILL AND LEAK CONTROL

REMOVE IGNITION SOURCES. AVOID VAPORS,VENTILATE AREA. WIPE UP WITH INERT MATERIALS AND PLACE IN APPROPRIATE CONTAINER.

WASTE ELIMINATION

DO NOT INCINERATE AEROSOL,DISPOSE OF IN ACCORDANCE WITH LOCAL,STATE,FEDERAL REGS. DO NOT PLACE AEROSOL CANS IN HOME COMPACTOR . DO NOT PUNCTURE.

OTHER PRECAUTIONS

USE ONLY AS DIRECTED. INHALATION MAY BE HARMFUL OR FATAL.

SUPPLEMENTAL DATA

*ADD INGRED-PROPANE-NIOSH NO.TX2275000 ISOBUTANE-NIOSH NO.T243000 00.HAZ DECOMP CONT-FUMES MAY CONTAIN OXIDES OF NITROGEN & PHOSGE NE.

GLC019 A 8

NSN	FSCM	MGR	F P IND	PN IND	BASIC PUBLICATION / PART NUMBER/TRADE NAME	ACT CD	DATE	PAGE NR
8010-00-721-9742	59986	GSA	G	A	10075		85112	1

* * * HAZARDOUS ITEM

* * * * GENERAL INFORMATION * * * *

PROPRIETARY NO

MANUFACTURER: NATIONAL AEROSOL PRODUCTS, CO

EMERGENCY TELE NO: 213-627-2668

ITEM NAME: PAINT ACRYLIC/VT ALKYD AEROSOL

UI	UI CONTAINER QTY	TYPE OF CONT	NET UNIT WT	MAG/MILGAUS	EXEMPTION NO
PT	1 PT	CAN,PRESSURIZ			

AEROSOL PROPELLANT

SPECIFICATION: A-A-665

RADIOACTIVITY	FORM	TR GP	NRC LIC NUMBER	CHEMICAL NAME	CHEMICAL FAMILY	FORMULA

* * * * * HAZARDOUS COMPONENTS * * * * *

NIOSH NO	CHEMICAL NAME	PCT	T L V
XS5250000	TOLUENE	88.0	100 PPM
ZE2100000	XYLENE	8.0	100 PPM
KW7700000	ETHYLENE GLYCOL MONOBUTYL ETHER	4.0	50 PPM
EM7780000	METHYL ETHYL KETONE	4.0	200 PPM

* * * * * * TRANSPORTATION DATA * * * * * *

DOT SHIPPING NAME: CONSUMER COMMODITY

CLASS: ORM-D LABEL: NONE MODE: N/A ID NO: N/A RQ: NO

WATER SHIPPING NAME:

CLASS: LABEL: UN NO: UN CLASS: COM GP: DOT: INCO

TARIFF 6-D SHIPPING:

CLASS: LABEL:

IATA SHIPPING NAME:

CLASS: LABEL: IATA ARTICLE NO:

AFR 71-4 SHIPPING NAME:

CLASS: LABEL: NMAC:

* * * * * * ADDITIONAL DATA * * * * * *

DOT 173.1200(8) APPLIES FOR COMPRESSED GASES.SHIPPED AS CONSUMER COMMODITY.

B 8

N S N

8010-00-721-9742

ACT CD DATE PAGE NR

85100 2

* * * * HEALTH AND PHYSICAL PROPERTY DATA * * * *

BOILING POINT	VAP DEN/AIR=1/	SOL IN H2O	FLASH POINT	VAP PRESS/MM HG/70 F/	TLV-MIXTURE	STORAGE CODE
176-343	>AIR	SLIGHT	43F, 5C			

APPEARANCE AND ODOR

BROWN, MOBILE LIQUID CONTAINING VOLATILE SOLVENTS.

LEL/PCT/	UEL/PCT/	SP GR	PCT VOLT BY VOL	EVAP RATE PER REFERENCE
		0.98	78.6	<ETHER

EFFECTS OF OVEREXPOSURE

INHALE-HEADACHE, NAUSEA, DIZZINESS. SKIN-PROLONGED MAY CAUSE IRRITATION.

NET PROP WT-AMMO NEW LB

STABLE	CONDITIONS TO AVOID	MATERIALS TO AVOID
YES		OXIDIZING MAT'L. RUBBER SOFTENS.

HAZ POLYMERIZATION OCCUR	CONDITIONS TO AVOID	AUTO IGN TEMP	VISCOSITY	CG AMMO CD
NO				

HAZARDOUS DECOMPOSITION PRODUCTS

CO,CO2

* * * * SAFETY STORAGE HANDLING AND FIRE FIGHTING PROCEDURES * * * *

EXTINGUISHING MEDIA

CO2, DRY CHEM, FOAM

SPECIAL FIRE FIGHTING PROCEDURES

USE SELF CONTAINED BREATHING APPARATUS.

UNUSUAL FIRE / EXPLOSION HAZARDS

USE WATER TO COOL CONTAINERS EXPOSED TO FIRE.

PROTECTIVE GLOVES

IF PROLONGED

EMERGENCY FIRST AID PROCEDURES

INHALE-MOVE TO FRESH AIR. SKIN-FLUSH W LGE AMTS WATER. REMOVE CONTAMINATED CLOTHING. EYE-FLUSH WITH WATER FOR MIN. OF 15 MIN. CALL DOCTOR.

TYPE OF RESPIRATORY PROTECTION

CONF AREA-USBM RESP. ADEQUATE VENTILATION REQUIRED.

VENTILATION

KEEP CONC BELOW TLV.

EYE PROTECTION

SOLVENT RESISTANT

OTHER PROTECTIVE EQUIPMENT

NORMAL PROTECTIVE CLOTHING.

HANDLING / STORAGE PRECAUTIONS

DO NOT STORE AT HIGH TEMP.

* * * * SPILL AND LEAK PROCEDURES * * * *

SPILL AND LEAK CONTROL

AVOID BREATHING VAPOR. EXTINGUISH IGNITION SOURCES. AVOID CONTACT WITH LIQUID.

WASTE ELIMINATION

DISPOSE OF IN CLOSED CONTAINERS AWAY FROM IGNITION SOURCES.

OTHER PRECAUTIONS

CLOSE CONTAINERS AFTER USE.

SUPPLEMENTAL DATA

GLC019 C 8 * * * HAZARDOUS ITEM BASIC PUBLICATION * * *

N S N	FSCM	MGR	F P IND	PN IND	PART NUMBER/TRADE NAME	ACT CD	DATE	PAGE NR
8010-00-721-9742	70506	GSA	G	A	DR063-CONCENTRATE		80037	1

* * * * GENERAL INFORMATION * * * *

PROPRIETARY NO

MANUFACTURER: DEVOE & RAYNOLDS CO., INC.

EMERGENCY TELE NO: 714-686-6958

ITEM NAME: AEROSOL LACQUER

UI CN	UI CONTAINER QTY	TYPE OF CONT	NET UNIT WT	MAG/MILGAUS	EXEMPTION NO
	16-OZ	AEROSOL			

AEROSOL PROPELLANT

SPECIFICATION: TT-L-50

RADIOACTIVITY	FORM	TR GP	NRC LIC NUMBER	CHEMICAL NAME	CHEMICAL FAMILY	FORMULA

* * * * * HAZARDOUS COMPONENTS * * * * *

NIOSH NO	CHEMICAL NAME	PCT	T L V
XS5250000	TOLUENE	50.0	100 PPM
ZE2100000	XYLENE	6.0	100 PPM
EL6475000	METHYL ETHYL KETONE	43.0	200 PPM
KJ8575000	ETHYLENE GLYCOL MONOBUTYL ETHER	43.0	50 PPM

* * * * * * TRANSPORTATION DATA * * * * * *

DOT SHIPPING NAME: CONSUMER COMMODITY

CLASS: LABEL: MODE: ID NO: RQ:

WATER SHIPPING NAME:

CLASS: LABEL: UN NO: UN CLASS: COM GP: DOT: IMCO

TARIFF 6-D SHIPPING:

CLASS: LABEL:

IATA SHIPPING NAME:

CLASS: LABEL: IATA ARTICLE NO:

AFR 71-4 SHIPPING NAME:

CLASS: LABEL: NMAC:

* * * * * * ADDITIONAL DATA * * * * * *

D 8

N S N		ACT CD	DATE	PAGE NR
8010-00-721-9742	* * * * HEALTH AND PHYSICAL PROPERTY DATA * * * *		80037	2

BOILING POINT	VAP DEN/AIR=1/	SOL IN H2O	FLASH POINT	VAP PRESS/MM HG/70 F/	TLV-MIXTURE	STORAGE CODE
176-343F	>1	SLIGHT	43F; 6.1C PMCC		SEE SECTION II	

APPEARANCE AND ODOR
BROWN- MOBILE LIQUID CONTAINING VOLATILE SOLVENTS

LEL/PCT/	UEL/PCT/	SP GR	PCT VOLT BY VOL	EVAP RATE PER REFERENCE
		0.98	78.6	<1 ETHER

EFFECTS OF OVEREXPOSURE
INHALATION-HEADACHE, NAUSEA, DIZZINESS. SKIN CONTACT-PROLONGED OR REPEATED CONTACT MAY IRRITATE SKIN

NET PROP WT-AMMO | NEW LB

STABLE	CONDITIONS TO AVOID	MATERIALS TO AVOID
YES NA		OXIDIZING MATERIALS; SOFTENS RUBBER.

HAZ POLYMERIZATION OCCUR	CONDITIONS TO AVOID	AUTO IGN TEMP	VISCOSITY	CG AMMO CO
NO NA				

HAZARDOUS DECOMPOSITION PRODUCTS
CO; CO=2

* * * * SAFETY STORAGE HANDLING AND FIRE FIGHTING PROCEDURES * * * *

EXTINGUISHING MEDIA
CO=2; DRY CHEMICAL; FOAM

SPECIAL FIRE FIGHTING PROCEDURES
WEAR SELF-CONTAINED BREATHING APPARATUS

UNUSUAL FIRE / EXPLOSION HAZARDS
WATER SHOULD BE USED TO COOL CONTAINERS EXPOSED TO FIRE.

PROTECTIVE GLOVES
YES

EMERGENCY FIRST AID PROCEDURES
INHALATION: MOVE TO FRESH AIR. SKIN: FLUSH WITH LARGE AMOUNTS OF WATER. REMOVE CONTAMINATED CLOTHING. EYE CONTACT: FLUSH WITH CLEAN WATER FOR AT LEAST 15 MINUTES. CALL A PHYSICIAN.

TYPE OF RESPIRATORY PROTECTION
IN CONFINED AREAS, USE U.S. BUR OF MINES APPROVED RESPIRATOR.

VENTILATION
LOCAL-SUFFICIENT TO KEEP CONCENTRATION BELOW GIVEN TLV.

EYE PROTECTION
SOLVENT RESISTANT

OTHER PROTECTIVE EQUIPMENT
NORMAL PROTECTIVE CLOTHING

HANDLING / STORAGE PRECAUTIONS
DO NOT STORE AT ELEVATED TEMPERATURES.

* * * * SPILL AND LEAK PROCEDURES * * * *

SPILL AND LEAK CONTROL
AVOID BREATHING VAPORS, EXTINGUISH IGNITION SOURCES IN IMMEDIATE AREA. AVOID CONTACT WITH LIQUID.

WASTE ELIMINATION
DISPOSE OF IN CLOSED CONTAINERS-AWAY FROM IGNITION SOURCES.

OTHER PRECAUTIONS
CLOSE CONTAINERS AFTER USE.

SUPPLEMENTAL DATA
BOILING POINT RANGE: 80-173C.

GLC019 E 8 * * * HAZARDOUS ITEM BASIC PUBLICATION * * *

N S N	FSCM	MGR	F P IND	PN IND	PART NUMBER/TRADE NAME	ACT CD	DATE	PAGE NR
8010-00-721-9742	91794	GSA	G	A	BROWN 10075			1

* * * * GENERAL INFORMATION * * * *

PROPRIETARY NO	MANUFACTURER	EMERGENCY TELE NO
	ILLINOIS BRONZE POWDER & PAINT COMPANY	312-4388201/3596433

ITEM NAME	UI	UI CONTAINER QTY	TYPE OF CONT	NET UNIT WT	MAG/MILGAUS	EXEMPTION NO
LACQUER						

AEROSOL PROPELLANT

SPECIFICATION TT-L-508

RADIOACTIVITY	FORM	TR CP	NRC LIC NUMBER	CHEMICAL NAME	CHEMICAL FAMILY	FORMULA

* * * * * HAZARDOUS COMPONENTS * * * * *

NIOSH NO	CHEMICAL NAME	PCT	T L V
KK8225000	CELLOSOLVE ACETATE	04.3	200 PPM
XS5250000	TOLUENE	27.4	100 PPM
PA8050000	METHYLENE CHLORIDE	14.0	250 PPM
1000095PT	PROPELLANT(PROPANE-ISOBUTANE 50:50 MOL WT %)	29.3	N.A.

* * * * * * TRANSPORTATION DATA * * * * * *

DOT SHIPPING NAME:

CLASS: LABEL: MODE: 10 NO: RQ:

WATER SHIPPING NAME:

CLASS: LABEL: UN NO: UN CLASS: COM CP: DOT: IMCO

TARIFF 6-D SHIPPING:

CLASS: LABEL:

IATA SHIPPING NAME:

CLASS: LABEL: IATA ARTICLE NO:

AFR 71-4 SHIPPING NAME:

CLASS: LABEL: NMAC:

* * * * * * ADDITIONAL DATA * * * * * *

F 8

N S N

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81139 2

* * * * HEALTH AND PHYSICAL PROPERTY DATA * * * *

BOILING POINT
42F/6C

VAP DEN/AIR=1/
>1

SOL IN H20

FLASH POINT
-40F/-40C CC

VAP PRESS/MM HG/70 F/

TLV-MIXTURE

STORAGE CODE

APPEARANCE AND ODOR

LEL/PCT/

UEL/PCT/

SP GR

PCT VOLT BY VOL

EVAP RATE PER REFERENCE

EFFECTS OF OVEREXPOSURE

SKIN,EYE,RESPIRATORY IRRITANT.VAPORS:HEADACHE,DIZZINESS,STGGERING GAIT,CONFUSION,COMA

NET PROP WT-AMMO

NEW LB

STABLE
YES

N/A

CONDITIONS TO AVOID

N/A

MATERIALS TO AVOID

HAZ POLYMERIZATION OCCUR
NO

N/A

CONDITIONS TO AVOID

AUTO IGN TEMP

VISCOSITY

CG AMMO CO

HAZARDOUS DECOMPOSITION PRODUCTS

HYDROGEN CHLORIDE,CARBON MONOXIDE,PHOSGENE

* * * * SAFETY STORAGE HANDLING AND FIRE FIGHTING PROCEDURES * * * *

EXTINGUISHING MEDIA

CO2,DRY CHEMICAL,FOAM,WATER FOG

SPECIAL FIRE FIGHTING PROCEDURES

WEAR GOGGLES AND SELF-CONTAINED BREATHING APPARATUS

UNUSUAL FIRE / EXPLOSION HAZARDS

CANS WILL RUPTURE AT ABOUT 190F.BURNING YIELDS TOXIC FUMES

PROTECTIVE GLOVES

NONE

EMERGENCY FIRST AID PROCEDURES

FUMES:REMOVE TO FRESH AIR.EYES:FLUSH WITH WATER 15 MIN,SEE PHYSICIAN.SKIN:WIPE OFF WITH TOWEL.REMOVE REMAINDER WITH MINERAL S
PIRITS,TURPENTINE,WASH WITH SOAP AND WATER.

TYPE OF RESPIRATORY PROTECTION

N/A

VENTILATION

LOCAL EXHAUST OR MECHANICAL TO KEEP BELOW TLV

EYE PROTECTION

SAFETY GOGGLES/GLASSES

N/A

OTHER PROTECTIVE EQUIPMENT

HANDLING / STORAGE PRECAUTIONS

DO NOT STORE AT OVER 120F.STORE IN BUI
LDINGS DESIGNED FOR STORAGE OF NFPA CLASS 1A FLAMMABLE LIQUIDS

* * * * SPILL AND LEAK PROCEDURES * * * *

SPILL AND LEAK CONTROL

REMOVE IGNITION SOURCES,VENTILATE,AVOID BREATHING FUMES,REMOVE WITH INERT ABSORBENT

WASTE ELIMINATION

INCINERATE IN APPROVED FACILITY.DO NOT INCINERATE CLOSED CONTAINERS,OR DISPOSE IN ACCORD WITH GOVERNMENT REGULATIONS.

OTHER PRECAUTIONS

DO NOT PUNCTURE.DO NOT SPRAY IN EYES.

SUPPLEMENTAL DATA

GLC019 M 8

N S N	FSCM	MGR	F P IND	PN IND	* * * HAZARDOUS ITEM BASIC PUBLICATION * * * PART NUMBER/TRADE NAME	ACT CD	DATE	PAGE NR
8010-00-721-9744	59581	GSA	G	A	LACQUER, AEROSOL 13538 YELLOW		85144	1

*** * * * GENERAL INFORMATION * * * ***

PROPRIETARY NO	MANUFACTURER	EMERGENCY TELE NO
	SEYMOUR OF SYCAMORE	815-895-9101

ITEM NAME	UI	UI CONTAINER QTY	TYPE OF CONT	NET UNIT WT	MAG/MILGAUS	EXEMPTION NO
AEROSOL LACQUER	CN	1 PT	CAN, AEROSOL	-10 F -23 C		

PROPANE/ISOBUTANE — AEROSOL PROPELLANT — SPECIFICATION A-A-65

RADIOACTIVITY	FORM	TR GP	NRC LIC NUMBER	CHEMICAL NAME	CHEMICAL FAMILY	FORMULA

*** * * * * HAZARDOUS COMPONENTS * * * * ***

NIOSH NO	CHEMICAL NAME	PCT	T L V
ZB1600000	VM&P NAPHTHA	6.36	300 PPM
XS5250000	TOLUENE	17.9	100 PPM
ZE2100000	XYLENE	2.26	100 PPM
PL5775000	METHYLENE CHLORIDE	22.4	100 PPM
	ALIPHATIC HYDROCARBONS	1.40	200 PPM

*** * * * * * TRANSPORTATION DATA * * * * * ***

DOT SHIPPING NAME: CONSUMER COMMODITY

CLASS: ORM-D LABEL: MODE: N/A ID NO: N/A RQ: NO

WATER SHIPPING NAME:

CLASS: LABEL: UN NO: UN CLASS: COM SP: DOT: INCO

TARIFF 6-D SHIPPING:

CLASS: LABEL:

IATA SHIPPING NAME:

CLASS: LABEL: IATA ARTICLE NO:

AFR 71-4 SHIPPING NAME:

CLASS: LABEL: NMAC:

*** * * * * * ADDITIONAL DATA * * * * * ***

DOT 173.1200(8) APPLIES TO COMPRESSED GASES SHIPPED AS CONSUMER COMMODITY.

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85095 2

* * * * HEALTH AND PHYSICAL PROPERTY DATA * * * *

BOILING POINT
NA

VAP DEN/AIR=1/
>AIR

SOL IN H2O

FLASH POINT
-10F,
AEROSOL

VAP PRESS/MM HG/70 F/

TLV-MIXTURE

STORAGE CODE

APPEARANCE AND ODOR

LEL/PCT/

UEL/PCT/

SP GR

PCT VOLT BY VOL
85

EVAP RATE PER REFERENCE
>ETHER

EFFECTS OF OVEREXPOSURE

INHALATION-IRRITATE RESP. TRACT; HEADACHE,DIZZINESS,CONFUSTION MAY BE EYE IRRITANT.

NET PROP WT-AMMO

NEW LB

STABLE
YES

CONDITIONS TO AVOID
OPEN FLAME

MATERIALS TO AVOID

HAZ POLYMERIZATION OCCUR
NO

CONDITIONS TO AVOID

AUTO IGN TEMP

VISCOSITY

CG AMMO CO

HAZARDOUS DECOMPOSITION PRODUCTS

CO, OXIDES OF NITROGEN, & PHOSGENE

* * * * SAFETY STORAGE HANDLING AND FIRE FIGHTING PROCEDURES * * * *

EXTINGUISHING MEDIA

CO2, DRY CHEMICAL OR FOAM

SPECIAL FIRE FIGHTING PROCEDURES

WATER MAY BE INEFFECTIVE WEAR GOGGLES& SELF CONTAINED RESPIR

UNUSUAL FIRE / EXPLOSION HAZARDS

EXPOSURE TO HEAT MAY CAUSE AEROSOL CAN TO BURST

PROTECTIVE GLOVES
OPTIONAL

EMERGENCY FIRST AID PROCEDURES

FUMES-REMOVE FROM EXPOSURE, RESTORE BREATHING, NOTIFY PHYSICIAN. EYES-FLUSH WITH COPIOUS AMOUNTS OF WATER FOR AT LEAST 15 MIN . GET MEDICAL TREATMENT IMMEDIATELY. SKIN. WASH WITH SOAP & WATER. REMOVE CONTAMINATED CLOTHING.

TYPE OF RESPIRATORY PROTECTION

AVOID CONTINUOUS BREATHING OF VAPORS & SPRAY MIST.

VENTILATION

USE WITH ADEQUATE VENTILATION.

EYE PROTECTION

IF MIST CAN GET INTO EYES

OTHER PROTECTIVE EQUIPMENT

HANDLING / STORAGE PRECAUTIONS

DO NOT STORE ABOVE 120F. EXPOSURE TO H

EAT OR PROLONGED EXPOSURE TO SUN MAY CAUSE BURSTING.

* * * * SPILL AND LEAK PROCEDURES * * * *

SPILL AND LEAK CONTROL

REMOVE SOURCES OF IGNITION, AVOID BREATHING VAPORS, VENTILATE AREA. WIPE UP WITH INERT MATERIALS & PLACE IN APPROPRIATE CONTA INERS.

WASTE ELIMINATION

DO NOT INCINERATE AEROSOL. DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE & FEDERAL REGULATIONS. DO NOT PLACE AEROSOL CANS IN HOM E COMPACTOR. DO NOT PUNCTURE CANS

OTHER PRECAUTIONS

USE ONLY AS DIRECTED. INTENTIONAL MISUSE BY DELIBERATELY CONCENT RATING VAPOR & INHALING CAN BE HARMFUL OR FATAL.

SUPPLEMENTAL DATA

CONTRACT NO. TC-68-10F-46124

GLC019 0 8 * * * HAZARDOUS ITEM BASIC PUBLICATION * * *

M S N	FSCM	MGR	F P IND	PN IND	PART NUMBER/TRADE NAME	ACT CD	DATE	PAGE NR
8010-00-721-9744	7F670		F	A	DR042 LIGHT YELLOW ACRYLIC LACQUER			1

* * * * GENERAL INFORMATION * * * *

PROPRIETARY: YES

MANUFACTURER: DEVOE & RAYNOLDS CO, INC.

EMERGENCY TELE NO: (714) 686-6930

ITEM NAME	UI	UI CONTAINER QTY	TYPE OF CONT	NET UNIT WT	MAG/MILGAUS	EXEMPTION NO
AEROSOL PROPELLANT						

SPECIFICATION: TT-L-506

RADIOACTIVITY	FORM	TR GP	NRC LIC NUMBER	CHEMICAL NAME	CHEMICAL FAMILY	FORMULA
				NOT APPLICABLE	ACRYLIC	

* * * * * HAZARDOUS COMPONENTS * * * * *

MIOSH NO	CHEMICAL NAME	PCT	T L V

* * * * * * TRANSPORTATION DATA * * * * * *

DOT SHIPPING NAME:

CLASS: LABEL: MODE: ID NO: RQ:

WATER SHIPPING NAME:

CLASS: LABEL: UN NO: UN CLASS: COM GP: DOT: INCO

TARIFF 6-D SHIPPING:

CLASS: LABEL:

IATA SHIPPING NAME:

CLASS: LABEL: IATA ARTICLE NO:

AFR 71-4 SHIPPING NAME:

CLASS: LABEL: NMAC:

* * * * * * ADDITIONAL DATA * * * * * *

A 9

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A 85027 2

* * * * HEALTH AND PHYSICAL PROPERTY DATA * * * *

BOILING POINT 176-320F | VAP DEN/AIR=1/ >AIR | SOL IN H2O SLIGHT | FLASH POINT 43F PMCC | VAP PRESS/MM HG/70 F/ | TLV-MIXTURE | STORAGE CODE

APPEARANCE AND ODOR
YELLOW, MOBILE LIQUID CONTAINING VOLATILE SLVS.

LEL/PCT/ | UEL/PCT/ | SP GR 0.96 | PCT VOLT BY VOL 78.0 | EVAP RATE PER REFERENCE SLOWER THAN ETHER

EFFECTS OF OVEREXPOSURE
INHALATION: HEADACHE, NAUSEA, DIZZINESS. SKIN: PROLONGED OR REPEATED MAY CAUSE IRRITATION.

NET PROP WT-AMMO | NEW LB

STABLE
YES

CONDITIONS TO AVOID
NOT APPLICABLE

MATERIALS TO AVOID
OXIDIZING MATERIALS, RUBBER SOFTENS

HAZ POLYMERIZATION OCCUR
NO

CONDITIONS TO AVOID
NOT APPLICABLE

AUTO IGN TEMP | VISCOSITY | CG AMMO CD

HAZARDOUS DECOMPOSITION PRODUCTS
CARBON MONOXIDE, CARBON DIOXIDE

* * * * SAFETY STORAGE HANDLING AND FIRE FIGHTING PROCEDURES * * * *

EXTINGUISHING MEDIA
CARBON DIOXIDE, DRY CHEMICAL, FOAM

SPECIAL FIRE FIGHTING PROCEDURES
SELF CONTAINED BREATHING APPARATUS SHOULD BE WORN BY FIRES.

UNUSUAL FIRE / EXPLOSION HAZARDS
WATER SHOULD BE USED TO COOL CONTAINERS EXPOSED TO FIRE.

PROTECTIVE GLOVES
REQUIRED

EMERGENCY FIRST AID PROCEDURES
INHALATION: MOVE TO FRESH AIR. SKIN: FLUSH WITH LARGE AMOUNTS OF WATER. REMOVE CONTAMINATED CLOTHING. EYE: FLUSH WITH CLEAN WATER FOR AT LEAST 15 MINUTES. CALL PHYSICIAN.

TYPE OF RESPIRATORY PROTECTION
IN CONFINED AREAS USE U.S. B OF M APPROVED RESPIRATOR DEVICE.

VENTILATION
PROVIDE LOCAL VENTILATION TO KEEP BELOW TLV AND LEL.

EYE PROTECTION
SOLVENT RESISTANT

OTHER PROTECTIVE EQUIPMENT
NORMAL PROTECTIVE CLOTHING.

HANDLING / STORAGE PRECAUTIONS
DO NOT STORE AT ELEVATED TEMPERATURES.

* * * * SPILL AND LEAK PROCEDURES * * * *

SPILL AND LEAK CONTROL
AVOID BREATHING VAPORS, EXTINGUISH IGNITION SOURCES IN IMMEDIATE AREA. AVOID CONTACTITH LIQUID.

WASTE ELIMINATION
DISPOSE OF IN CLOSED CONTAINERS AWAY FROM IGNITION SOURCES.

OTHER PRECAUTIONS
CLOSE CONTAINERS AFTER USE.

SUPPLEMENTAL DATA

GLC019 B 9 * * * HAZARDOUS ITEM BASIC PUBLICATION * * *

NSN	FSCM	MGR	F P IND	PN IND	PART NUMBER/TRADE NAME	ACT CD	DATE	PAGE NR
8010-00-721-9744	70506	GSA	G	A	DR040-CONCENTRATE		80037	1

* * * * GENERAL INFORMATION * * * *

PROPRIETARY NO

MANUFACTURER: DEVOE & RAYNOLDS CO., INC.

EMERGENCY TELE NO: 714-686-6950

ITEM NAME: AEROSOL LACQUER

UI	UI CONTAINER QTY	TYPE OF CONT	NET UNIT WT	MAG/MILGAUS	EXEMPTION NO
CN	16-OZ	AEROSOL			

AEROSOL PROPELLANT

SPECIFICATION: TT-L-50

RADIOACTIVITY	FORM	TR GP	NRC LIC NUMBER	CHEMICAL NAME	CHEMICAL FAMILY	FORMULA

* * * * * HAZARDOUS COMPONENTS * * * * *

NIOSH NO	CHEMICAL NAME	PCT	T L V
XS5250000	TOLUENE	83.0	100 PPM
AE2100000	XYLENE	14.0	100 PPM
EL6475000	METHYL ETHYL KETONE	<5.0	200 PPM

* * * * * * TRANSPORTATION DATA * * * * * *

DOT SHIPPING NAME: CONSUMER COMMODITY

CLASS: LABEL: MODE: ID NO: RQ:

WATER SHIPPING NAME:

CLASS: LABEL: UN NO: UN CLASS: COM GP: DOT: IMCO

TARIFF 6-D SHIPPING:

CLASS: LABEL:

IATA SHIPPING NAME:

CLASS: LABEL: IATA ARTICLE NO:

AFR 71-4 SHIPPING NAME:

CLASS: LABEL: MMAC:

* * * * * * ADDITIONAL DATA * * * * * *

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NSN

8010-00-721-9744

ACT CD DATE PAGE NR
80037 2

*** * * * HEALTH AND PHYSICAL PROPERTY DATA * * * ***

BOILING POINT	VAP DEN/AIR=1/	SOL IN H2O	FLASH POINT	VAP PRESS/MM HG/70 F/	TLV-MIXTURE	STORAGE CODE
176-343F	>1	SLIGHT	43F; 6.1C PMCC		SEE SECTION II	

APPEARANCE AND ODOR
YELLOW-MOBILE LIQUID CONTAINING VOLATILE SOLVENTS

LEL/PCT/	UEL/PCT/	SP GR	PCT VOLT BY VOL	EVAP RATE PER REFERENCE
		0.94	78.1	<1 ETHER

EFFECTS OF OVEREXPOSURE
INHALATION-HEADACHE, NAUSEA, DIZZINESS. SKIN CONTACT-PROLONGED OR REPEATED CONTACT MAY IRRITATE SKIN

NET PROP WT-AMMO NEW LB

STABLE
YES NA

CONDITIONS TO AVOID

MATERIALS TO AVOID
OXIDIZING MATERIALS; SOFTENS RUBBER

HAZ POLYMERIZATION OCCUR
NO NA

CONDITIONS TO AVOID

AUTO IGN TEMP VISCOSITY CG AMMO CD

HAZARDOUS DECOMPOSITION PRODUCTS
CO; CO*2

*** * * * SAFETY STORAGE HANDLING AND FIRE FIGHTING PROCEDURES * * * ***

EXTINGUISHING MEDIA
CO*2; DRY CHEMICAL; FOAM

SPECIAL FIRE FIGHTING PROCEDURES
WEAR SELF-CONTAINED BREATHING APPARATUS.

UNUSUAL FIRE / EXPLOSION HAZARDS
WATER SHOULD BE USED TO COOL CONTAINERS EXPOSED TO FIRE.

PROTECTIVE GLOVES
YES

EMERGENCY FIRST AID PROCEDURES
INHALATION-MOVE TO FRESH AIR. SKIN-FLUSH WITH LARGE AMOUNTS OF WATER. REMOVE CONTAMINATED CLOTHING. EYE CONTACT-FLUSH WITH CL
EAN WATER FOR AT LEAST 15 MINUTES. CALL A PHYSICIAN.

TYPE OF RESPIRATORY PROTECTION
IN CONFINED AREAS, USE U.S. BUR OF MINES APPROVED RESPIRATOR.

VENTILATION
LOCAL-SUFFICIENT TO KEEP CONCENTRATION BELOW GIVEN TLV.

EYE PROTECTION
SOLVENT RESISTANT

OTHER PROTECTIVE EQUIPMENT
NORMAL PROTECTIVE CLOTHING.

HANDLING / STORAGE PRECAUTIONS
DO NOT STORE AT ELEVATED TEMPERATURES.

*** * * * SPILL AND LEAK PROCEDURES * * * ***

SPILL AND LEAK CONTROL
AVOID BREATHING VAPORS, EXTINGUISH IGNITION SOURCES IN IMMEDIATE AREA. AVOID CONTACT WITH LIQUID.

WASTE ELIMINATION
DISPOSE OF IN CLOSED CONTAINERS-AWAY FROM IGNITION SOURCES.

OTHER PRECAUTIONS
CLOSE CONTAINERS AFTER USE.

SUPPLEMENTAL DATA
BOILING POINT RANGE: 80-173C

GLC019 D 9 * * * HAZARDOUS ITEM BASIC PUBLICATION * * *

NSN	FSCM	MGR	F P IND	PN IND	PART NUMBER/TRADE NAME	ACT CD	DATE	PAGE NR
8010-00-721-9744	91794	GSA	G	A	YELLOW (13538)			1

**** GENERAL INFORMATION ****

PROPRIETARY NO	MANUFACTURER	EMERGENCY TELE NO
LACQUER	ILLINOIS BRONZE POWDER & PAINT COMPANY	312-4388201/3596433

ITEM NAME	UI	UI CONTAINER QTY	TYPE OF CONT	NET UNIT WT	MAG/MILGAUS	EXEMPTION NO
AEROSOL PROPELLANT						

SPECIFICATION
TT-L-506

RADIOACTIVITY	FORM	TR GP	NRC LIC NUMBER	CHEMICAL NAME	CHEMICAL FAMILY	FORMULA

***** HAZARDOUS COMPONENTS *****

NIOSH NO	CHEMICAL NAME	PCT	T L V
XS5250000	TOLUENE	18.6	100PPM
PA8050000	METHYLENE CHLORIDE	33.3	250PPM
1000095PT	PROPELLANT (PROPANE-ISOBUTANE 50:50 MOL WT %)	30.7	N.A.
OF7525000	LEAD	02.8	50MG/M3

****** TRANSPORTATION DATA ******

DOT SHIPPING NAME:

CLASS: LABEL: MODE: ID NO: RQ:

WATER SHIPPING NAME:

CLASS: LABEL: UN NO: UN CLASS: COM GP: DOT: IMCO

TARIFF 6-D SHIPPING:

CLASS: LABEL:

IATA SHIPPING NAME:

CLASS: LABEL: IATA ARTICLE NO:

AFR 71-4 SHIPPING NAME:

CLASS: LABEL: MMAC:

****** ADDITIONAL DATA ******

E 9

N S N

8010-00-721-9744

ACT CD DATE PAGE NR

81139 2

*** * * * HEALTH AND PHYSICAL PROPERTY DATA * * * ***

BOILING POINT	VAP DEN/AIR=1/	SOL IN H20	FLASH POINT	VAP PRESS/MM HG/70 F/	TLV-MIXTURE	STORAGE CODE
42F/6C	>1		-40F/-40C CC			

APPEARANCE AND ODOR

LEL/PCT/ UEL/PCT/ SP GR PCT VOLT BY VOL EVAP RATE PER REFERENCE

EFFECTS OF OVEREXPOSURE

SKIN,EYE, RESPIRATORY IRRITANT. VAPORS:HEADACHE, DIZZINESS, STAGGERING GAIT, CONFUSION, COMA

NET PROP WT-AMMO NEW LB

STABLE
YES N/A

CONDITIONS TO AVOID

N/A

MATERIALS TO AVOID

HAZ POLYMERIZATION OCCUR
NO

N/A

CONDITIONS TO AVOID

AUTO IGN TEMP VISCOSITY CG AMMO CD

HAZARDOUS DECOMPOSITION PRODUCTS

HYDROGEN CHLORIDE, CARBON MONOXIDE, PHOSGENE

*** * * * SAFETY STORAGE HANDLING AND FIRE FIGHTING PROCEDURES * * * ***

EXTINGUISHING MEDIA

CO2, DRY CHEMICAL, FOAM, WATER FOG

SPECIAL FIRE FIGHTING PROCEDURES

WEAR GOGGLES AND SELF-CONTAINED BREATHING APPARATUS

UNUSUAL FIRE / EXPLOSION HAZARDS

CANS WILL RUPTURE AT ABOUT 190F. BURNING YIELDS TOXIC FUMES.

PROTECTIVE GLOVES

NONE

EMERGENCY FIRST AID PROCEDURES

FUMES: REMOVE TO FRESH AIR. EYES:FLUSH WITH WATER 15 MIN, SEE PHYSICIAN. SKIN: WIPE OFF WITH TOWEL. REMOVE REMAINDER WITH MINERAL SPIRITS, TURPENTINE; WASH WITH SOAP AND WATER.

TYPE OF RESPIRATORY PROTECTION

N/A

VENTILATION

LOCAL EXHAUST OR MECHANICAL TO KEEP BELOW TLV

EYE PROTECTION

SAFETY GOGGLES/GLASSES

OTHER PROTECTIVE EQUIPMENT

N/A

HANDLING / STORAGE PRECAUTIONS

DO NOT STORE AT OVER 120F. STORE IN BUILDINGS DESIGNED FOR STORAGE OF NFPA CLASS 1A FLAMMABLE LIQUIDS.

*** * * * SPILL AND LEAK PROCEDURES * * * ***

SPILL AND LEAK CONTROL

REMOVE IGNITION SOURCES, VENTILATE, AVOID BREATHING FUMES, REMOVE WITH INERT ABSORBENT.

WASTE ELIMINATION

INCINERATE IN APPROVED FACILITY. DO NOT INCINERATE CLOSED CONTAINERS, OR DISPOSE IN ACCORD WITH GOVERNMENT REGULATIONS.

OTHER PRECAUTIONS

DO NOT PUNCTURE. DO NOT SPRAY IN EYES.

SUPPLEMENTAL DATA

MATERIAL SAFETY DATA SHEET
PRODUCT: SAND, ALL TYPES

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE: Respirable Dust - TLV 10MG/M^3

EFFECTS OF OVEREXPOSURE: Excessive exposure, by inhalation, to dusts of this material, over an extended period of time may result in the development of pulmonary diseases including pneumonconiosis and silicosis. Dust can cause inflammation of the lining tissue of nose and inflamation of the cornea.
EMERGENCY FIRST AID: Remove from exposure. If not breathing, give artificial respiration. If breathing difficult, give oxygen. Consult a physician.

SECTION VI - REACTIVITY DATA

STABILITY: UNSTABLE _____ STABLE X
CONDITIONS TO AVOID: None

INCOMPATABILITY (MATERIALS TO AVOID): None

HAZARDOUS DECOMPOSITION PRODUCTS: None

HAZARDOUS POLYMERIZATION: MAY OCCUR _____ WILL NOT OCCUR X
CONDITIONS TO AVOID: NA

SECTION VII - SPILL OR LEAK PROCEDURES

IN CASE MATERIAL IS RELEASED OR SPILLED: Clean up spills may require personal protective equipment to prevent dust exposure. See Section 8
WASTE DISPOSAL METHOD: Does not meet the criteria of a hazardous waste. Dispose of in accordance with Federal, State and local regulations.

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (TYPE): NIOSH/MSHA approved for protection against silica and nuisance dusts.
VENTILATION:

MATERIAL SAFETY DATA SHEET
PRODUCT: SAND, ALL TYPES

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE: Respirable Dust - TLV 10MG/M^3

EFFECTS OF OVEREXPOSURE: Excessive exposure, by inhalation, to dusts of this material, over an extended period of time may result in the development of pulmonary diseases including pneumonconiosis and silicosis. Dust can cause inflammation of the lining tissue of nose and inflamation of the cornea.
EMERGENCY FIRST AID: Remove from exposure. If not breathing, give artificial respiration. If breathing difficult, give oxygen. Consult a physician.

SECTION VI - REACTIVITY DATA

STABILITY: UNSTABLE _____ STABLE X
CONDITIONS TO AVOID: None

INCOMPATABILITY (MATERIALS TO AVOID): None

HAZARDOUS DECOMPOSITION PRODUCTS: None

HAZARDOUS POLYMERIZATION: MAY OCCUR _____ WILL NOT OCCUR X
CONDITIONS TO AVOID: NA

SECTION VII - SPILL OR LEAK PROCEDURES

IN CASE MATERIAL IS RELEASED OR SPILLED: Clean up spills may require personal protective equipment to prevent dust exposure. See Section 8
WASTE DISPOSAL METHOD: Does not meet the criteria of a hazardous waste. Dispose of in accordance with Federal, State and local regulations.

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (TYPE): NIOSH/MSHA approved for protection against silica and nuisance dusts.
VENTILATION:
Local Exhaust: Yes Special:
Mechanical: Other:
PROTECTIVE GLOVES:To protect from abrasion EYE PROTECTION: Safety Glasses
OTHER PROTECTIVE EQUIPMENT: None

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS IN HANDLING AND STORING: Store in a manner to prevent accumulations of airborne dust.

OTHER PRECAUTIONS: None

MATERIAL SAFETY DATA SHEET

H	2
F	0
R	0
P	B

SECTION I - PRODUCT IDENTIFICATION

ADE NAME: SAND, ALL TYPES
EMICAL FAMILY/SYNONYMS: Silica/Gravel
NUFACTURER: W. R. BONSAL COMPANY, P.O. BOX 241148, CHARLOTTE, N. C. 28224
ERGENCY PHONE: (704) 525-1621 Mr. Fred Goeman Mr. Larry Kern

SECTION II - HAZARDOUS INGREDIENTS

DESCRIPTION	CAS #	PERCENT	OCCUPATIONAL EXPOSURE LIMITS TLV	OCCUPATIONAL EXPOSURE LIMITS PEL	VAPOR PRESSURE (MM HG)
ARTZ	14808-60-7	90-100	BELOW	BELOW	

$$V\ (\text{sand}) = \frac{10\ \text{mg/m3}}{\%\ \text{respirable quartz} + 2} = \text{PEL (sand)}$$

SECTION III - PHYSICAL DATA

ILING POINT (°F)	NA	SPECIFIC GRAVITY (H_2O=1)	2.3
POR PRESSURE (mmHg.)	NA	% VOLATILE BY VOLUME (%)	0
POR DENSITY (AIR=1)	NA	EVAPORATION RATE	NA

OLUBILITY IN WATER: Negligible <0.1

PEARANCE & ODOR: Gravel, various colors, no odor

SECTION IV - FIRE & EXPLOSION HAZARD DATA

ASH POINT: Will not ignite FLAMMABLE LIMITS _____

TINGUISHING MEDIA: NA

ECIAL FIRE FIGHTING PROCEDURES: NA

USUAL FIRE AND EXPLOSION HAZARDS: None

Prepared By:
Friedrich Goeman
Friedrich Goeman

MATERIAL SAFETY DATA SHEET
PRODUCT: SAND, ALL TYPES

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE: Respirable Dust - TLV 10MG/M^3

EFFECTS OF OVEREXPOSURE: Excessive exposure, by inhalation, to dusts of this material, over an extended period of time may result in the development of pulmonary diseases including pneumonconiosis and silicosis. Dust can cause inflammation of the lining tissue of nose and inflamation of the cornea.
EMERGENCY FIRST AID: Remove from exposure. If not breathing, give artificial respiration. If breathing difficult, give oxygen. Consult a physician.

SECTION VI - REACTIVITY DATA

STABILITY: UNSTABLE _____ STABLE X
CONDITIONS TO AVOID: None

INCOMPATABILITY (MATERIALS TO AVOID): None

HAZARDOUS DECOMPOSITION PRODUCTS: None

HAZARDOUS POLYMERIZATION: MAY OCCUR _____ WILL NOT OCCUR X
CONDITIONS TO AVOID: NA

SECTION VII - SPILL OR LEAK PROCEDURES

IN CASE MATERIAL IS RELEASED OR SPILLED: Clean up spills may require personal protective equipment to prevent dust exposure. See Section 8
WASTE DISPOSAL METHOD: Does not meet the criteria of a hazardous waste. Dispose of in accordance with Federal, State and local regulations.

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (TYPE): NIOSH/MSHA approved for protection against silica and nuisance dusts.
VENTILATION:
Local Exhaust: Yes Special:
Mechanical: Other:
PROTECTIVE GLOVES: To protect from abrasion EYE PROTECTION: Safety Glasses
OTHER PROTECTIVE EQUIPMENT: None

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS IN HANDLING AND STORING: Store in a manner to prevent accumulations of airborne dust.

OTHER PRECAUTIONS: None

MATERIAL SAFETY DATA SHEET

H	2
F	0
R	0
P	B

SECTION I - PRODUCT IDENTIFICATION

ADE NAME: SAND, ALL TYPES
EMICAL FAMILY/SYNONYMS: Silica/Gravel
NUFACTURER: W. R. BONSAL COMPANY, P.O. BOX 241148, CHARLOTTE, N. C. 28224
ERGENCY PHONE: (704) 525-1621 Mr. Fred Goeman Mr. Larry Kern

SECTION II - HAZARDOUS INGREDIENTS

DESCRIPTION	CAS #	PERCENT	OCCUPATIONAL EXPOSURE LIMITS TLV	PEL	VAPOR PRESSURE (MM HG)
ARTZ	14808-60-7	90-100	BELOW	BELOW	

$$\text{V (sand)} = \frac{10 \text{ mg/m3}}{\% \text{ respirable quartz} + 2} = \text{PEL (sand)}$$

SECTION III - PHYSICAL DATA

ILING POINT (°F)	NA	SPECIFIC GRAVITY (H_2O=1)	2.3
POR PRESSURE (mmHg.)	NA	% VOLATILE BY VOLUME (%)	0
POR DENSITY (AIR=1)	NA	EVAPORATION RATE	NA

LUBILITY IN WATER: Negligible <0.1

PEARANCE & ODOR: Gravel, various colors, no odor

SECTION IV - FIRE & EXPLOSION HAZARD DATA

ASH POINT: Will not ignite FLAMMABLE LIMITS _____

TINGUISHING MEDIA: NA

ECIAL FIRE FIGHTING PROCEDURES: NA

USUAL FIRE AND EXPLOSION HAZARDS: None

5

Prepared By:
Friedrich Goeman
Friedrich Goeman

MATERIAL SAFETY DATA SHEET

H	2
F	0
R	0
P	B

SECTION I - PRODUCT IDENTIFICATION

TRADE NAME: SUREMIX SAND MIX
CHEMICAL FAMILY/SYNONYMS: Portland Cement Mortar, lime, silica
MANUFACTURER: W. R. BONSAL COMPANY, P.O. BOX 241148, CHARLOTTE, N. C. 28224
EMERGENCY PHONE: (704) 525-1621 Mr. Fred Goeman Mr. Larry Kern

SECTION II - HAZARDOUS INGREDIENTS

DESCRIPTION	PERCENT	OCCUPATIONAL EXPOSURE LIMITS TLV	OCCUPATIONAL EXPOSURE LIMITS PEL	VAPOR PRESSURE (MM HG)
PORTLAND CEMENT	*	10 mg/m^3	15 mg/m^3	N/A
SAND (QUARTZ)	*	BELOW	BELOW	N/A

* Varies depending on product

$$\text{TLV (sand)} = \frac{10 \text{ mg/m3}}{\% \text{ respirable quartz} + 2} = \text{PEL (sand)}$$

NOTE: Previous air monitoring during employee exposure to this product has indicated typical airborne respirable quartz fractions of up to 3%.
TLV: Threshold Limit Value established by the American Conference of Governmental Industrial Hygienists, 1985-86.

SECTION III - PHYSICAL DATA

BOILING POINT (°F)	N/A	SPECIFIC GRAVITY (H_2O=1)	2.6 2.7
VAPOR PRESSURE (mmHg.)	N/A	% VOLATILE BY VOLUME (%)	0
VAPOR DENSITY (AIR=1)	N/A	EVAPORATION RATE	N/A

SOLUBILITY IN WATER: Slight (0.1-1.0%)

APPEARANCE & ODOR: Fine, grey powder mixed with sand and/or rock, no odor.

SECTION IV - FIRE & EXPLOSION HAZARD DATA

FLASH POINT: Will not ignite FLAMMABLE LIMITS N/A

EXTINGUISHING MEDIA: None

SPECIAL FIRE FIGHTING PROCEDURES: None

UNUSUAL FIRE AND EXPLOSION HAZARD : None

Prepared By:
Friedrich Goeman
Friedrich Goeman

MATERIAL SAFETY DATA SHEET
PRODUCT: SUREMIX SAND MIX

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE: Respirable Dust - TLV 10MG/M^3

EFFECTS OF OVEREXPOSURE: Excess exposure by inhalation over an extended period of time may result in the development of pulmonary diseases including pneumoconiosis and sillicosis.
EMERGENCY FIRST AID: **Inhalation:** remove from exposure. If not breathing, give artificial respiration, if breathing difficult, give oxygen, consult a physician. **Eye Contact:** flush thoroughly with water for 15 minutes. Consult a physician. **Skin Contact:** wash thoroughly with soap and water.

SECTION VI - REACTIVITY DATA

STABILITY: UNSTABLE _____ STABLE X
CONDITIONS TO AVOID: N/A

INCOMPATABILITY (MATERIALS TO AVOID): Highly alkaline. Strong acids may cause violent, exothermic reaction, evolve toxic gases/vapors, depending on type acid.
HAZARDOUS DECOMPOSITION PRODUCTS: N/A
HAZARDOUS POLYMERIZATION: MAY OCCUR _____ WILL NOT OCCUR X
CONDITIONS TO AVOID: N/A

SECTION VII - SPILL OR LEAK PROCEDURES

IN CASE MATERIAL IS RELEASED OR SPILLED: Use personal protective equipment to prevent dust exposures and protect against alkali burns or irritation. Sec. {
WASTE DISPOSAL METHOD: Dispose of in accordance with Federal, State and local regulations.

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (TYPE): NIOSH/MSHA approved for protection against silica and nuisance dusts.
VENTILATION:
Local Exhaust: Yes Special:
Mechanical: Other:
PROTECTIVE GLOVES: Rubber, PVC, Neoprene EYE PROTECTION: Goggles
OTHER PROTECTIVE EQUIPMENT: Rubber boots, arm sleeves and aprons when necessary to prevent skin contact.

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS IN HANDLING AND STORING: Store in manner to prevent contact with strong acids. Avoid contact with water to preserve product.
OTHER PRECAUTIONS: None

KINGCO MATERIAL SAFETY DATA SHEET

ADHESIVES
SEALANTS
COATINGS

KING ADHESIVES CORPORATION
5231 NORTHRUP AVE. • ST. LOUIS, MO 63110
314/772-9953

Paul Thornton / Chemist

Latest Revision Date: 1/15/87

OTHER EMERGENCY TELEPHONE # CHEMTREC 1-800-424-9300

COMMON NAME: Non-flammable Duct Liner Adhesive # 15-137

SECTION 2 HAZARDOUS INGREDIENTS

Component(s)	% by wt.	TLV	C.A.S. #
1,1,1-trichloroethane	*	350 ppm	71-55-6

* Withheld as trade secret.
(1) OSHA recommends a ceiling level of 350 ppm for 15 minute sampling period.

SECTION 3 PHYSICAL DATA

Appearance and Odor: Light tan color, thin viscosity, mild, sweet chlorinated odor.

Initial Boiling Point: 165 F/74 C
Vapor Pressure: 100 mm HG (at 68 F/20 C)
Vapor Density: 4.5 (air = 1)
Specific Gravity: 1.24 (at 68 F/20 C)
Percent Volatile by Volume: 86.7 %
Evaporation Rate: Faster than Butyl Acetate
Slower than Ethyl Ether
Solubility in Water: Negligible.

SECTION 4 FIRE AND EXPLOSION DATA

Flash Point* : Non-flammable mixture.
Flammable Limits (% by vol. in air):Upper 17.2/Lower 6.7

Extinguishing Media: Regular foam, carbon dioxide, dry chemical.
Special Fire Fighting Procedures: Wear a self-contained breathing apparatus with full face piece (MSHA/NIOSH jointly approved) in a pressure demand or other positive pressure mode when fighting fires.
Unusual Fire and Explosion Hazards: Material is highly volatile and readily gives off vapors which can overpressurize containers when exposed to extreme heat. Water can be used to keep containers cool until fire is out.
Do not weld on or near containers whether full or empty.

Hazardous Decomposition Products: Decomposition may form toxic materials including carbon dioxide, carbon monoxide, various hydrocarbons, hydrogen chloride, phosgene, etc.

NFPA CODE* Health 2, Flammability 1, Reactivity 0

*Representative of the most volatile component(s) in the system and not the product as a whole.

SECTION 5 HEALTH HAZARD DATA

	TLV	PEL	STEL
1,1,1-Trichloroethane	350 ppm	350 ppm	450 ppm

Primary Route(s) of Entry: Inhalation, skin and eye contact.

EFFECTS OF OVEREXPOSURE TO PRODUCT*

EYES: Can cause severe irritation, redness, tearing, blurred vision.

SKIN: Prolonged or repeated contact may cause moderate irritation, defatting, and dermatitis.

INHALED: Excessive inhalation of vapors can cause nasal and respiratory irritation, weakness, fatigue, nausea, headache, possibly unconsciousness and asphyxiation.

INGESTED: Can cause gastrointestinal irritation, nausea, vomiting, and diarrhea. Aspiration of this material into the lungs due to vomiting, etc. can cause chemical pneumonitis which can be harmful or fatal.

FIRST AID RECOMMENDATIONS

EYES: Flush with large amounts of water or saline solution for 15 minutes, making sure to rinse under eyelids. Get prompt medical attention, especially if irritation persists or if there is evidence of burn or vision difficulty.

SKIN: Remove contaminated clothing and wash thoroughly with a waterless hand cleaner and then soap and water. If irritation occurs, get medical attention. Launder contaminated clothing before reuse.

INHALED: Move affected person to fresh air. Administer oxygen if breathing is difficult or artificial respiration if breathing has stopped. Keep person warm and quiet and get immediate medical attention. Never give anything by mouth to an unconscious person.

INGESTED: Do not induce vomiting. Keep person warm and quiet. Get immediate medical attention. Aspiration of this material into the lungs due to vomiting can cause chemical pneumonitis which can be harmful or fatal.

*Applies to volatile component(s) in the system and not to the product as a whole.

SECTION 6 REACTIVITY DATA

Hazardous polymerization will not occur with this product.
Stability: Stable.
Incompatibility: oxidizing agents, reactive metals.

SECTION 7 SPILL OR LEAK PROCEDURES

SMALL SPILL: Absorb on paper, vermiculite, or other absorbant material and allow volatiles to evaporate. Then dispose of dry material in accordance with local, state, and federal regulations.
LARGE SPILL: Eliminate all ignition sources. All unprotected personnel should leave the area. Stop spill at source and dike area to prevent spill from spreading. Then pump liquid into salvage tank. Residue can be cleaned up with absorbant material. Destroy liquid by incineration. Solid material (and absorbant) may be land-filled in accordance with local, state, and federal regulations.

SECTION 8 PERSONAL PROTECTION

RESPIRATORY PROTECTION: If T.L.V. of product or any of its components is exceeded, a MSHA/NIOSH jointly approved respirator or air-supplied regulator is necessary. Engineering and administrative controls should be implemented to reduce exposure.
VENTILATION: Provide sufficient mechanical ventilation to maintain air concentrations below T.L.V.(s).
SKIN PROTECTION: Solvent resistant gloves are recommended. Other impervious clothing (rubber apron, boots, etc.) can also help to reduce skin exposure.
EYE PROTECTION: OSHA approved splash goggles or other forms of eye protection should be worn.

OTHER MEASURES: Keep containers sealed when not in use and clean up spills promptly to reduce air concentrations and floor hazards.

SECTION 9 SPECIAL PRECAUTIONS & COMMENTS

Precautionary labeling: ORM-A, UN 2831

Handling and Storage:
Keep away from high temperature sources that may induce thermal decomposition (e.g. open flames, welding operations, etc.). Store in a cool and well ventilated area. Keep containers sealed when not in use. Do not store near strong oxidizers or reactive metals such as magnesium or aluminum. When handling material, follow personal protection instructions outlined in Section 8. Do not transfer material to unmarked containers. Empty containers may contain hazardous residue and should be handled accordingly.

SECTION 10: DISCLAIMER

The information presented here is believed to be accurate but is not warranted to be, whether originating with the company or not. Recipients are advised to confirm in advance of need, that the information is current, applicable, and suitable to their circumstances.

THE RUBY CHEMICAL COMPANY
1741 Cleveland Avenue
Columbus, Ohio 43211

Emergency Phone:
614-294-7001

MATERIAL SAFETY DATA

Date: 1/9/87

PRODUCT IDENTIFICATION

TRADEMARK: RUBYFLUID SOLDERING FLUX

WARNING

MAY CAUSE EYE AND SKIN IRRITATION
KEEP OUT OF REACH OF CHILDREN
FOR INDUSTRTIAL USE ONLY

HAZARDOUS INGREDIENTS

COMPONENT	CAS NO.	%	TWA/CEILING	REFERENCE
ZINC CHLORIDE	76446-85-7	> 25	1 PPM	OSHA

HEALTH HAZARD INFORMATION

EFFECTS OF OVEREXPOSURE

Eye irritation with discomfort, tearing, or blurring of vision; skin irritation with discomfort or rash; or irritation of upper respiratory passages. Higher exposures may lead to these effects: skin burns or ulceration; eye irritation with discomfort, tearing, or blurring of vision, temporary lung irritation effects with cough, discomfort, difficulty breathing, or shortness of breath; possibly modest initial symptoms, followed in hours by severe shortness of breath, requiring prompt medical attention; or fatality from gross overexposure by fume inhalation or by significant ingestion. There are inconclusive or unverified reports of human sensitization. Individuals with preexisting diseases of the lungs may have increased susceptibility to the toxicity of excessive exposures.

FIRST AID

In case of eye contact, immediately irrigate with plenty of water for 15 minutes. In case of skin contact, wash affected areas of skin with soap and water. If inhaled, remove to fresh air immediately. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen. Call a physician. If swallowed do not induce vomiting. Give large quantities of water or milk. Call a physician. Never give anything by mouth to an unconscious person.

EXPOSURE CONTROL METHODS

Engineering controls are not usually necessary, if good hygiene practices are strictly followed. Respiratory protection is generally not required during normal operations. Wear the following as necessary to prevent skin contact; work pants, long sleeve work shirt and impervious gloves. For operations where eye or face contact can occur, wear chemical splash proof goggles. Provide eyewash fountain and safety shower in close proximity to points of potential exposure.

FIRE AND EXPLOSION HAZARD INFORMATION

FLASH POINT:	Will Not Burn
FLAMMABLE LIMITS:	Not Applicable
AUTOIGNITION TEMP:	Not Applicable
DECOMPOSITION TEMP:	Not Applicable
FIRE FIGHTING:	As appropriate for combustibles in area. May release zinc oxide fumes, zinc chloride fumes, hydrogen gas in a fire. See Exposure Control Methods for special protective clothing.

REACTIVITY DATA	STABILITY:	Stable
	POLYMERIZATION:	Will Not Occur
	INCOMPATIBILITY:	Incompatible With Cyanides (may release toxic HCN gas) And Sulfide Salts (may release toxic H_2S)
	DECOMPOSITION:	Will Not Occur Except At High Temp

PHYSICAL PROPERTIES	APPEARANCE & ODOR:	Red liquid, essentially odorless
	BOILING POINT:	225 Degrees F
	MELTING POINT:	Not Applicable
	VAPOR PRESSURE:	Unknown
	SPECIFIC GRAVITY:	1.26
	VAPOR DENSITY:	1 (air = 1)
	EVAPORATION RATE:	1 (butyl acetate = 1)
	SOLUBILITY:	Complete In Water

SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Comply with Federal, State, and local regulations on reporting releases. Flush spill area with plenty of water to an approved chemical sewer.

WASTE DISPOSAL: In accordance with applicable government regulations. If approved, may be transferred to a licensed contractor, or flushed to sewer to waste treatment system.

SPECIAL PRECAUTIONS:
DO NOT GET IN EYES, ON SKIN, ON CLOTHING
AVOID BREATHING FUMES OR MIST
WASH THOROUGHLY AFTER HANDLING

This information is given without any warranty or representation. We do not assume any legal responsibility. It is offered solely for your consideration.
DLM

GLC019 M 6 * * * HAZARDOUS ITEM BASIC PUBLICATION * * *

NSN	FSCM	MGR	F P IND	PN IND	PART NUMBER/TRADE NAME	ACT CD	DATE	PAGE NR
8010-00-721-9479	59581	GSA	G	A	LACQUER, AEROSOL 12215 ORANGE		85144	1

(22)

*** * * * GENERAL INFORMATION * * * ***

PROPRIETARY NO

MANUFACTURER
SEYMOUR OF SYCAMORE

EMERGENCY TELE NO
815-895-9101

ITEM NAME
AEROSOL LACQUER

UI CN	UI CONTAINER QTY	TYPE OF CONT	NET UNIT WT	MAG/MILGAUS	EXEMPTION NO
	1 PT	CAN, AEROSOL			

PROPANE/ISOBUTANE — AEROSOL PROPELLANT

SPECIFICATION
A-A-65

RADIOACTIVITY	FORM	TR GP	NRC LIC NUMBER	CHEMICAL NAME	CHEMICAL FAMILY	FORMULA

*** * * * * HAZARDOUS COMPONENTS * * * * ***

NIOSH NO	CHEMICAL NAME	PCT	T L V
KJ5075000	ETHYL ALCOHOL	1.75	1000 PPM
ZD1400000	VM&P NAPHTHA	7.00	300 PPM
XS5250000	TOLUENE	18.4	100 PPM
PL5775000	METHYLENE CHLORIDE	24.5	100 PPM
ZE2100000	XYLENE	0.26	100 PPM

*** * * * * * TRANSPORTATION DATA * * * * * ***

DOT SHIPPING NAME: CONSUMER COMMODITY

CLASS: ORM-D LABEL: MODE: N/A ID NO: N/A RQ: NO

WATER SHIPPING NAME:

CLASS: LABEL: UN NO: UN CLASS: COM GP: DOT: IMCO

TARIFF 6-D SHIPPING:

CLASS: LABEL:

IATA SHIPPING NAME:

CLASS: LABEL: IATA ARTICLE NO:

AFR 71-4 SHIPPING NAME:

CLASS: LABEL: MMAC:

*** * * * * * ADDITIONAL DATA * * * * * ***

DOT 173.1200(8) APPLIES TO COMPRESSED GASES SHIPPED AS CONSUMER COMMODITY.

N 6

N S N

ACT CD DATE PAGE NR

8010-00-721-9479 * * * * HEALTH AND PHYSICAL PROPERTY DATA * * * * 85095 2

BOILING POINT NA | VAP DEN/AIR=1/ >AIR | SOL IN H2O | FLASH POINT -10F, AEROSOL | VAP PRESS/MM HG/70 F/ | TLV-MIXTURE | STORAGE CODE

APPEARANCE AND ODOR | LEL/PCT/ | UEL/PCT/ | SP GR | PCT VOLT BY VOL 85 | EVAP RATE PER REFERENCE >ETHER

EFFECTS OF OVEREXPOSURE

INHALATION-IRRITATE RESP. TRACT; HEADACHE,DIZZINESS,CONFUSION MAY BE EYE IRRITANT. NET PROP WT-AMMO | NEW LB

STABLE YES | CONDITIONS TO AVOID: OPEN FLAME | MATERIALS TO AVOID

HAZ POLYMERIZATION OCCUR NO | CONDITIONS TO AVOID | AUTO IGN TEMP | VISCOSITY | CG AMMO CD

HAZARDOUS DECOMPOSITION PRODUCTS

CO, OXIDES OF NITROGEN, & PHOSGENE

* * * * SAFETY STORAGE HANDLING AND FIRE FIGHTING PROCEDURES * * * *

EXTINGUISHING MEDIA

CO2, DRY CHEMICAL OR FOAM

SPECIAL FIRE FIGHTING PROCEDURES

WATER MAY BE INEFFECTIVE WEAR GOGGLES &SELF CONTAINED RESPIR

UNUSUAL FIRE / EXPLOSION HAZARDS

EXPOSURE TO HEAT MAY CAUSE AEROSOL CAN TO BURST

PROTECTIVE GLOVES OPTIONAL

EMERGENCY FIRST AID PROCEDURES

FUMES-REMOVE FROM EXPOSURE, RESTORE BREATHING, NOTIFY PHYSICIAN. EYES-FLUSH WITH COPIOUS AMOUNTS OF WATER FOR AT LEAST 15 MIN . GET MEDICAL TREATMENT IMMEDIATELY. SKIN-WASH WITH SOAP & WATER. REMOVE CONTAMINATED CLOTHING.

TYPE OF RESPIRATORY PROTECTION

AVOID CONTINUOUS BREATHING OF VAPORS & SPRAY MIST.

VENTILATION

USE WITH ADEQUATE VENTILATION.

EYE PROTECTION

IF MIST CAN GET INTO EYES

OTHER PROTECTIVE EQUIPMENT

EAT OR PROLONGED EXPOSURE TO SUN MAY CAUSE BURSTING.

HANDLING / STORAGE PRECAUTIONS

DO NOT STORE ABOVE 120F. EXPOSURE TO H

* * * * SPILL AND LEAK PROCEDURES * * * *

SPILL AND LEAK CONTROL

REMOVE SOURCES OF IGNITION, AVOID BREATHING VAPORS, VENTILATE AREA. WIPE UP WITH INERT MATERIALS & PLACE IN APPROPRIATE CONTA INERS.

WASTE ELIMINATION

DO NOT INCINERATE AEROSOL. DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE & FEDERAL REGULATIONS. DO NOT PLACE AEROSOL CANS IN HOM E COMPACTOR. DO NOT PUNCTURE CANS.

OTHER PRECAUTIONS

USE ONLY AS DIRECTED. INTENTIONAL MISUSE BY DELIBERATELY CONCENT RATING VAPOR & INHALING CAN BE HARMFUL OR FATAL.

SUPPLEMENTAL DATA

CONTRACT NO. TC-68-10F-44124

GLC019 0 6 * * * HAZARDOUS ITEM BASIC PUBLICATION * * *

N S N	FSCM	MGR	F P IND	PN IND	PART NUMBER/TRADE NAME	ACT CD	DATE	PAGE NR
8010-00-721-9479	59986	GSA	6	A	12215		85112	1

*** * * * GENERAL INFORMATION * * * ***

PROPRIETARY NO

MANUFACTURER: NATIONAL AEROSOL PRODUCTS, CO

EMERGENCY TELE NO: 213-627-2668

ITEM NAME: PAINT ACRYLIC/VT ALKYD AEROSOL

UI: UI CONTAINER QTY: TYPE OF CONT: CAN,PRESSURIZ: NET UNIT WT: MAG/MILGAUS: EXEMPTION NO:

AEROSOL PROPELLANT

SPECIFICATION: A-A-665

RADIOACTIVITY	FORM	TR GP	NRC LIC NUMBER	CHEMICAL NAME	CHEMICAL FAMILY	FORMULA

*** * * * * HAZARDOUS COMPONENTS * * * * ***

NIOSH NO	CHEMICAL NAME	PCT	T L V
XS5250000	TOLUENE	84.0	100 PPM
ZE2100000	XYLENE	13.0	100 PPM
KW7700000	ETHYLENE GLYCOL MONOBUTYL ETHER	<5.0	50 PPM

*** * * * * * TRANSPORTATION DATA * * * * * ***

DOT SHIPPING NAME: CONSUMER COMMODITY

CLASS: ORM-D LABEL: NONE MODE: N/A ID NO: N/A RQ: NO

WATER SHIPPING NAME:

CLASS: LABEL: UN NO: UN CLASS: COM GP: DOT: IMCO

TARIFF 6-D SHIPPING:

CLASS: LABEL:

IATA SHIPPING NAME:

CLASS: LABEL: IATA ARTICLE NO:

AFR 71-4 SHIPPING NAME:

CLASS: LABEL: NMAC:

*** * * * * * ADDITIONAL DATA * * * * * ***

DOT 173.1200(8) APPLIES FOR COMPRESSED GASES.SHIPPED AS CONSUMER COMMODITY.

A 7

NSN	ACT CD	DATE	PAGE NR
8010-00-721-9479		85100	2

*** * * * HEALTH AND PHYSICAL PROPERTY DATA * * * ***

BOILING POINT	VAP DEN/AIR=1/	SOL IN H2O	FLASH POINT	VAP PRESS/MM HG/70 F/	TLV-MIXTURE	STORAGE CODE
176-343	>AIR	SLIGHT	43F, 5C PMCC			

APPEARANCE AND ODOR
ORANGE,MOBILE LIQUID CONTAINING VOLATILE SOLVENTS.

LEL/PCT/	UEL/PCT/	SP GR	PCT VOLT BY VOL	EVAP RATE PER REFERENCE
		0.96	78.1	<ETHER

EFFECTS OF OVEREXPOSURE
INHALE-HEADACHE, NAUSEA, DIZZINESS. SKIN-PROLONGED MAY CAUSE IRRITATION.

NET PROP WT-AMMO NEW LB

STABLE
YES

CONDITIONS TO AVOID

MATERIALS TO AVOID
OXIDIZING MAT'L. RUBBER SOFTENS.

HAZ POLYMERIZATION OCCUR
NO

CONDITIONS TO AVOID

AUTO IGN TEMP VISCOSITY CG AMMO CD

HAZARDOUS DECOMPOSITION PRODUCTS
CO,CO2

*** * * * SAFETY STORAGE HANDLING AND FIRE FIGHTING PROCEDURES * * * ***

EXTINGUISHING MEDIA
CO2, DRY CHEM, FOAM

SPECIAL FIRE FIGHTING PROCEDURES
USE SELF CONTAINED BREATHING APPARATUS.

UNUSUAL FIRE / EXPLOSION HAZARDS
USE WATER TO COOL CONTAINERS EXPOSED TO FIRE.

PROTECTIVE GLOVES
IF PROLONGED

EMERGENCY FIRST AID PROCEDURES
INHALE-MOVE TO FRESH AIR. SKIN-FLUSH W LGE AMTS WATER. REMOVE CONTAMINATED CLOTHING. EYE-FLUSH WITH WATER FOR MIN. OF 15 MIN. CALL DOCTOR.

TYPE OF RESPIRATORY PROTECTION
CONF AREA-USBM RESP. ADEQUATE VENTILATION REQUIRED.

VENTILATION
KEEP CONC BELOW TLV

EYE PROTECTION
SOLVENT RESISTANT

OTHER PROTECTIVE EQUIPMENT
NORMAL PROTECTIVE CLOTHING

HANDLING / STORAGE PRECAUTIONS
DO NOT STORE AT HIGH TEMP.

*** * * * SPILL AND LEAK PROCEDURES * * * ***

SPILL AND LEAK CONTROL
AVOID BREATHING VAPOR. EXTINGUISH IGNITION SOURCES. AVOID CONTACT WITH LIQUID.

WASTE ELIMINATION
DISPOSE OF IN CLOSED CONTAINERS AWAY FROM IGNITION SOURCES.

OTHER PRECAUTIONS
CLOSE CONTAINERS AFTER USE.

SUPPLEMENTAL DATA

GLC019 B 7

* * * HAZARDOUS ITEM BASIC PUBLICATION * * *

N S N	FSCM	MGR	F P IND	PN IND	PART NUMBER/TRADE NAME	ACT CD	DATE	PAGE NR
8010-00-721-9479	70506	GSA	G	A	DR067-CONCENTRATE		80037	1

* * * * GENERAL INFORMATION * * * *

PROPRIETARY NO

MANUFACTURER: DEVOE & RAYNOLDS CO., INC.

EMERGENCY TELE NO: 714-686-6950

ITEM NAME	UI CN	UI CONTAINER QTY	TYPE OF CONT	NET UNIT WT	MAG/MILGAUS	EXEMPTION NO
AEROSOL LACQUER		16-OZ	AEROSOL			

AEROSOL PROPELLANT

SPECIFICATION: TT-L-50

RADIOACTIVITY	FORM	TR GP	NRC LIC NUMBER	CHEMICAL NAME	CHEMICAL FAMILY	FORMULA

* * * * * HAZARDOUS COMPONENTS * * * * *

NIOSH NO	CHEMICAL NAME	PCT	T L V
XS5250000	TOLUENE	84.0	100 PPM
ZE2100000	XYLENE	13.0	100 PPM
KJ8575000	ETHYLENE GLYCOL MONOBUTYL ETHER	<3.0	50 PPM

* * * * * * TRANSPORTATION DATA * * * * * *

DOT SHIPPING NAME: CONSUMER COMMODITY

CLASS: LABEL: MODE: ID NO: RQ:

WATER SHIPPING NAME:

CLASS: LABEL: UN NO: UN CLASS: COM GP: DOT: IMCO

TARIFF 6-D SHIPPING:

CLASS: LABEL:

IATA SHIPPING NAME:

CLASS: LABEL: IATA ARTICLE NO:

AFR 71-4 SHIPPING NAME:

CLASS: LABEL: MMAC:

* * * * * ADDITIONAL DATA * * * * *

C 7

NSN	ACT CD	DATE	PAGE NR
8010-00-721-9479		80037	2

*** * * * HEALTH AND PHYSICAL PROPERTY DATA * * * ***

BOILING POINT	VAP DEN/AIR=1/	SOL IN H2O	FLASH POINT	VAP PRESS/MM HG/70 F/	TLV-MIXTURE	STORAGE CODE
230-343F	>1	SLIGHT	43F; 6.1C PMCC		SEE SECTION II	

APPEARANCE AND ODOR
ORANGE-MOBILE LIQUID CONTAINING VOLATILE SOLVENTS

LEL/PCT/	UEL/PCT/	SP GR	PCT VOLT BY VOL	EVAP RATE PER REFERENCE
		0.96	78.1	<1 ETHER

EFFECTS OF OVEREXPOSURE
INHALATION-HEADACHE, NAUSEA, DIZZINESS. SKIN CONTACT-PROLONGED OR REPEATED CONTACT MAY IRRITATE SKIN

NET PROP WT-AMMO NEW LB

STABLE	CONDITIONS TO AVOID	MATERIALS TO AVOID
YES NA		OXIDIZING MATERIALS; SOFTENS RUBBER

HAZ POLYMERIZATION OCCUR	CONDITIONS TO AVOID	AUTO IGN TEMP	VISCOSITY	CG AMMO CD
NO	NA			

HAZARDOUS DECOMPOSITION PRODUCTS
CO; CO=2

*** * * * SAFETY STORAGE HANDLING AND FIRE FIGHTING PROCEDURES * * * ***

EXTINGUISHING MEDIA
CO=2; DRY CHEMICAL; FOAM

SPECIAL FIRE FIGHTING PROCEDURES
WEAR SELF-CONTAINED BREATHING APPARATUS.

UNUSUAL FIRE / EXPLOSION HAZARDS
WATER SHOULD BE USED TO COOL CONTAINERS EXPOSED TO FIRE.

PROTECTIVE GLOVES
YES

EMERGENCY FIRST AID PROCEDURES
INHALATION-MOVE TO FRESH AIR. SKIN-FLUSH WITH LARGE AMOUNTS OF WATER. REMOVE CONTAMINATED CLOTHING. EYE CONTACT-FLUSH WITH CLEAN WATER FOR AT LEAST 15 MINUTES. CALL A PHYSICIAN.

TYPE OF RESPIRATORY PROTECTION
IN CONFINED AREAS, USE U.S. BUR OF MINES APPROVED RESPIRATOR.

VENTILATION
LOCAL-SUFFICIENT TO KEEP CONCENTRATION BELOW GIVEN TLV.

EYE PROTECTION
SOLVENT RESISTANT

OTHER PROTECTIVE EQUIPMENT
NORMAL PROTECTIVE CLOTHING.

HANDLING / STORAGE PRECAUTIONS
DO NOT STORE AT ELEVATED TEMPERATURES.

*** * * * SPILL AND LEAK PROCEDURES * * * ***

SPILL AND LEAK CONTROL
AVOID BREATHING VAPORS, EXTINGUISH IGNITION SOURCES IN IMMEDIATE AREA. AVOID CONTACT WITH LIQUID.

WASTE ELIMINATION
DISPOSE OF IN CLOSED CONTAINERS-AWAY FROM IGNITION SOURCES.

OTHER PRECAUTIONS
CLOSE CONTAINERS AFTER USE.

SUPPLEMENTAL DATA
BOILING POINT RANGE: 110-173C

GLC019 E 7

* * * HAZARDOUS ITEM BASIC PUBLICATION * * *

NSN	FSCM	MGR	F P IND	PN IND	PART NUMBER/TRADE NAME	ACT CD	DATE	PAGE NR
8010-00-290-6984	SN005		N	A	DR038 GLOSS BLACK ACRYLIC LACQUER #17038		83144	1

* * * * GENERAL INFORMATION * * * *

PROPRIETARY NO	MANUFACTURER	EMERGENCY TELE NO
	NATIONAL AEROSOL PRODUCT(DIST)DEVOE&RAYNOLDS(MFR)	(213)627-2668

ITEM NAME	UI CN	UI CONTAINER QTY	TYPE OF CONT	NET UNIT WT	MAG/MILGAUS	EXEMPTION NO
AEROSOL PROPELLANT		1PT.				

RADIOACTIVITY	FORM	TR CD	NRC LIC NUMBER	CHEMICAL NAME	CHEMICAL FAMILY	SPECIFICATION	FORMULA
			N/A			TT-L-50	

* * * * * HAZARDOUS COMPONENTS * * * * *

NIOSH NO	CHEMICAL NAME	PCT	T L V
XS5250000	TOLUENE	85.0	8,100 PPM
ZE2100000	XYLENE	5.0	8,100 PPM
EL6475000	METHYL ETHYL KETONE	<10.	200 PPM
KJ8925000	ETHYLENE GLYCOL MONOBUTYL ETHER ACETATE	<5.0	

* * * * * * TRANSPORTATION DATA * * * * * *

DOT SHIPPING NAME: COMPRESSED GAS,N.O.S.

CLASS: FLAMMABLE GAS LABEL: FLAMMABLE GAS MODE: ID NO: RQ:

WATER SHIPPING NAME: COMPRESSED GASES

CLASS: FLAMMABLE GAS LABEL: FLAMMABLE GAS UN NO: 1954 UN CLASS: 2 COM CP: DOT: YES INCO YES

TARIFF 6-D SHIPPING: COMPRESSED GAS,N.O.S.

CLASS: FLAMMABLE GAS LABEL: FLAMMABLE GAS

IATA SHIPPING NAME: COMPRESSED GASES,FLAMMABLE,N.O.S.

CLASS: FLAMMABLE GAS LABEL: FLAMMABLE GAS IATA ARTICLE NO: 1954

AFR 71-4 SHIPPING NAME: COMPRESSED GAS,N.O.S.

CLASS: FLAMMABLE GAS LABEL: FLAMMABLE GAS NMAC:

* * * * * * ADDITIONAL DATA * * * * * *

PRESSURED SPRAY CAN.

F 7

N S N

ACT CD DATE PAGE NR

8010-00-290-6984 * * * * HEALTH AND PHYSICAL PROPERTY DATA * * * * 81027 2

BOILING POINT	VAP DEN/AIR=1/	SOL IN H2O	FLASH POINT	VAP PRESS/MM HG/70 F/	TLV-MIXTURE	STORAGE CODE
172-320F		SLIGHT	38 F PMCC			

APPEARANCE AND ODOR
BLACK,MOBILE LIQUID CONTAINING VOLATILE SOLVENTS.

LEL/PCT/	UEL/PCT/	SP GR	PCT VOLT BY VOL	EVAP RATE PER REFERENCE
		0.94	79.3	SLOWER THAN ETHER

EFFECTS OF OVEREXPOSURE
INHAL:HEADACHE,NAUSEA,DIZZINESS,SKIN CONTACT:PROLONGED OR REPEATED CONTACT MAY CAUSE IRRITATION.

NET PROP WT-AMMO: N/A NEW LB

STABLE: YES

CONDITIONS TO AVOID

MATERIALS TO AVOID
OXIDIZING MATERIALS,SOFTENS RUBBER

HAZ POLYMERIZATION OCCUR: NO

CONDITIONS TO AVOID

AUTO IGN TEMP VISCOSITY CG AMMO CD

HAZARDOUS DECOMPOSITION PRODUCTS
CARBON MONOXIDE,CARBON DIOXIDE

* * * * SAFETY STORAGE HANDLING AND FIRE FIGHTING PROCEDURES * * * *

EXTINGUISHING MEDIA
CARBON DIOXIDE,DRY CHEMICAL,FOAM

SPECIAL FIRE FIGHTING PROCEDURES
SELF-CONTAINED BREATHING APPARATUS TO BE WORN BY FIREFIGHTER

UNUSUAL FIRE / EXPLOSION HAZARDS
WATER SHOULD BE USED TO COOL CONTAINERS EXPOSED TO FIRE

PROTECTIVE GLOVES
SOLVENT RESIST

EMERGENCY FIRST AID PROCEDURES
INHAL:MOVE TO FRESH AIR.SKIN CONTACT-FLUSH W/LG AMOUNTS OF WATER.REMOVE CONTAMINATED CLOTHING.EYE CONTACT-FLUSH W/CLEAN WATER FOR AT LEAST 15 MIN.CALL PHYSICIAN.

TYPE OF RESPIRATORY PROTECTION
USE NIOSH/MSHA APPROVED RESPIRATOR DEVICE IN CONF INED AREAS.

VENTILATION
SUFFICIENT LOCAL EXHAUST TO DEEP CONCENTRATION BELOW TLV

EYE PROTECTION

OTHER PROTECTIVE EQUIPMENT
NORMAL PROTECTIVE CLOTHING

HANDLING / STORAGE PRECAUTIONS
DO NOT STORE AT ELEVATED TEMPERATURES

* * * * SPILL AND LEAK PROCEDURES * * * *

SPILL AND LEAK CONTROL
AVOID BREATHING VAPORS,EXTINGUISH IGNITION SOURCE IN IMMEDIATE AREA.AVOID CONTACT W/LIQUID -MFR RECOMMENDATION

WASTE ELIMINATION
DISPOSE OF IN CLOSED CONTAINERS AWAY FROM IGNITION SOURCES.-MFR RECOMMENDATIONS.

OTHER PRECAUTIONS
CLOSE CONTAINERS AFTER USE

SUPPLEMENTAL DATA
BR038 ACRYLIC GLOSS BLACK LACQUER COLOR #17038 CONCENTRATE FOR T T-L-50. VAP PRESSURE IS UNKNOWN & VAPOR DENSITY IS >AIR.

GLC019 6 7 * * * HAZARDOUS ITEM BASIC PUBLICATION * * *

N S N	FSCM	MGR	F P IND	PN IND	PART NUMBER/TRADE NAME	ACT CD	DATE	PAGE NR
8010-00-290-6984	59581	GSA	6	A	LACQUER, AEROSOL 17038 BLACK		85144	1

*** * * * GENERAL INFORMATION * * * ***

PROPRIETARY NO

MANUFACTURER
SEYMOUR OF SYCAMORE

EMERGENCY TELE NO
815-895-9101

ITEM NAME	UI CN	UI CONTAINER QTY	TYPE OF CONT	NET UNIT WT	MAG/NILGAUS	EXEMPTION NO
AEROSOL LACQUER	CN	1 PT	CAN, AEROSOL			

AEROSOL PROPELLANT

SPECIFICATION
A-A-65

PROPANE/ISOBUTANE

RADIOACTIVITY	FORM	TR GP	NRC LIC NUMBER	CHEMICAL NAME	CHEMICAL FAMILY	FORMULA

*** * * * * HAZARDOUS COMPONENTS * * * * ***

NIOSH NO	CHEMICAL NAME	PCT	T L V
ZB1600000	VM&P NAPHTHA	7.33	300 PPM
XS5250000	TOLUENE	19.6	100 PPM
ZE2100000	XYLENE	3.23	100 PPM
PL5775000	METHYLENE CHLORIDE	26.3	100 PPM
	PROPANE	18.0	2.30 LEL

*** * * * * * TRANSPORTATION DATA * * * * * ***

DOT SHIPPING NAME: CONSUMER COMMODITY

CLASS: ORM-D LABEL: MODE: N/A ID NO: N/A RQ: NO

WATER SHIPPING NAME:

CLASS: LABEL: UN NO: UN CLASS: CON GP: DOT: IMCO

TARIFF 6-D SHIPPING:

CLASS: LABEL:

IATA SHIPPING NAME:

CLASS: LABEL: IATA ARTICLE NO:

AFR 71-4 SHIPPING NAME:

CLASS: LABEL: MMAC:

*** * * * * * ADDITIONAL DATA * * * * * ***

DOT 173.1200(8) APPLIES TO COMPRESSED GASES SHIPPED AS CONSUMER COMMODITY.

H 7

N S N

ACT CD DATE PAGE NR

8010-00-290-6984 * * * * HEALTH AND PHYSICAL PROPERTY DATA * * * * 85095 2

BOILING POINT: NA | VAP DEN/AIR=1/: >AIR | SOL IN H2O | FLASH POINT: -10F, AEROSOL | VAP PRESS/MM HG/70 F/ | TLV-MIXTURE | STORAGE CODE

APPEARANCE AND ODOR | LEL/PCT/ | UEL/PCT/ | SP GR | PCT VOLT BY VOL: 85 | EVAP RATE PER REFERENCE: >ETHER

EFFECTS OF OVEREXPOSURE

INHALATION-IRRITATE RESP. TRACT; HEADACHE,DIZZINESS,CONFUSION MAY BE EYE IRRITANT.

NET PROP WT-AMMO | NEW LB

STABLE: YES

CONDITIONS TO AVOID: OPEN FLAME

MATERIALS TO AVOID

HAZ POLYMERIZATION OCCUR: NO

CONDITIONS TO AVOID

AUTO IGN TEMP | VISCOSITY | CG AMMO CD

HAZARDOUS DECOMPOSITION PRODUCTS

CO, OXIDES OF NITROGEN, & PHOSGENE

* * * * SAFETY STORAGE HANDLING AND FIRE FIGHTING PROCEDURES * * * *

EXTINGUISHING MEDIA

CO2, DRY CHEMICAL OR FOAM

SPECIAL FIRE FIGHTING PROCEDURES

WATER MAY BE INEFFECTIVE WEAR GOGGLES &SELF CONTAINED RESPIR

UNUSUAL FIRE / EXPLOSION HAZARDS

EXPOSURE TO HEAT MAY CAUSE AEROSOL CAN TO BURST

PROTECTIVE GLOVES: OPTIONAL

EMERGENCY FIRST AID PROCEDURES

FUMES-REMOVE FROM EXPOSURE, RESTORE BREATHING, NOTIFY PHYSICIAN. EYES-FLUSH WITH COPIOUS AMOUNTS OF WATER FOR AT LEAST 15 MIN . GET MEDICAL TREATMENT IMMEDIATELY. SKIN-WASH WITH SOAP & WATER. REMOVE CONTAMINATED CLOTHING.

TYPE OF RESPIRATORY PROTECTION

AVOID CONTINUOUS BREATHING OF VAPORS & SPRAY MIST.

VENTILATION

USE WITH ADEQUATE VENTILATION.

EYE PROTECTION

IF MIST CAN GET INTO EYES

OTHER PROTECTIVE EQUIPMENT

HANDLING / STORAGE PRECAUTIONS

DO NOT STORE ABOVE 120F. EXPOSURE TO H

EAT OR PROLONGED EXPOSURE TO SUN MAY CAUSE BURSTING.

* * * * SPILL AND LEAK PROCEDURES * * * *

SPILL AND LEAK CONTROL

REMOVE SOURCES OF IGNITION, AVOID BREATHING VAPORS, VENTILATE AREA. WIPE UP WITH INERT MATERIALS & PLACE IN APPROPRIATE CONTA INERS.

WASTE ELIMINATION

DO NOT INCINERATE AEROSOL. DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE & FEDERAL REGULATIONS. DO NOT PLACE AEROSOL CANS IN HOM E COMPACTOR. DO NOT PUNCTURE CANS.

OTHER PRECAUTIONS

USE ONLY AS DIRECTED. INTENTIONAL MISUSE BY DELIBERATELY CONCENT RATING VAPOR & INHALING CAN BE HARMFUL OR FATAL.

SUPPLEMENTAL DATA

CONTRACT NO. TC-68-10F-46124

GLC019 K 7 * * * HAZARDOUS ITEM BASIC PUBLICATION * * *

NSN	FSCM	MGR	F P IND	PN IND	PART NUMBER/TRADE NAME	ACT CD	DATE	PAGE NR
8010-00-290-6984	91794	GSA	G	A	LACQUER SPRAY PAINT,BLACK 17038		83273	1

* * * * GENERAL INFORMATION * * * *

PROPRIETARY NO

MANUFACTURER
ILLINOIS BRONZE PAINT CO.

EMERGENCY TELE NO
312-438-8201

ITEM NAME	UI	UI CONTAINER QTY	TYPE OF CONT	NET UNIT WT	MAG/NILGAUS	EXEMPTION NO
	PT	1 PT	CAN AEROSOL			
AEROSOL PROPELLANT						SPECIFICATION

RADIOACTIVITY	FORM	TR GP	NRC LIC NUMBER	CHEMICAL NAME	CHEMICAL FAMILY	FORMULA

* * * * * HAZARDOUS COMPONENTS * * * * *

NIOSH NO	CHEMICAL NAME	PCT	T L V
PL5775000	METHYLENE CHLORIDE	33.0	250PPM
SE7555000	VM&P NAPHTHA	16	500PPM
1000257IP	ISOBUTANE-PROPANE(50-50 MOL WTX)		
XV1400000	TOLUOL	2.0	100PPM
EP3400000	BUTYL CELLOSOLVE	1.5	50PPM

* * * * * * TRANSPORTATION DATA * * * * * *

DOT SHIPPING NAME: COMPRESSED GAS, N.O.S.

CLASS: FLAMMABLE GAS LABEL: NONE-LIMITED QUANITY MODE: ID NO: UN1954 RQ:

WATER SHIPPING NAME:

CLASS: LABEL: UN NO: UN CLASS: COM GP: DOT: INCO

TARIFF 6-D SHIPPING:

CLASS: LABEL:

IATA SHIPPING NAME:

CLASS: LABEL: IATA ARTICLE NO:

AFR 71-4 SHIPPING NAME:

CLASS: LABEL: NMAC:

* * * * * * ADDITIONAL DATA * * * * * *

DOT 173.306(3) APPLIES-LIMITED QUANTITIES OF COMPRESSED GASES.

L 7

M S N

ACT CD DATE PAGE NR

8010-00-290-6984 * * * * HEALTH AND PHYSICAL PROPERTY DATA * * * * 83273 2

BOILING POINT 42-391F | VAP DEN/AIR=1/ HEAV | SOL IN H2O | FLASH POINT -40F-40C | VAP PRESS/MM HG/70 F/ | TLV-MIXTURE | STORAGE CODE

APPEARANCE AND ODOR | LEL/PCT/ 0.8 | UEL/PCT/ | SP GR | PCT VOLT BY VOL 89 | EVAP RATE PER REFERENCE PROPELL-FASTR,SOLV

EFFECTS OF OVEREXPOSURE

INHAL:ANEST.IRRIT OF RESPIR TRACT OR ACUTE NERV SYS DEPRESN,HDACH,DIZZ;STAGGERING GAIT,CONFUS,COMA.

NET PROP WT-AMMO | NEW LB

STABLE YES | CONDITIONS TO AVOID | MATERIALS TO AVOID

HAZ POLYMERIZATION OCCUR NO | CONDITIONS TO AVOID | AUTO IGN TEMP | VISCOSITY | CG AMMO CD

HAZARDOUS DECOMPOSITION PRODUCTS

HYDROGEN CHLORIDE,CARBON MONOXIDE,PHOSGENE

* * * * SAFETY STORAGE HANDLING AND FIRE FIGHTING PROCEDURES * * * *

EXTINGUISHING MEDIA

NFPA CL B EXTING LCO=2,DRY CHEM OR FOAM)F/A FLAMB LIQD FIRE

SPECIAL FIRE FIGHTING PROCEDURES

WEAR GOGG & SELF-CONT BREATHING APP. WATR.SPRAY MAY (SUP

UNUSUAL FIRE / EXPLOSION HAZARDS

CNS WILL RPTR FR INTERNAL PRESSR AT ABOUT 190F & DISCHRG FLAMBL CONTNT.IF HEATD TO DECOMP,TOXIC FUM

PROTECTIVE GLOVES NONE

EMERGENCY FIRST AID PROCEDURES

FUMES:REMOV FROM EXPO GET FRESH AIR.SPRAY EYES:FLUSH IMMED W LG QTY OF RUNNING WATR F/AT LEAST 15 MIN.TAKE TO DR.SPRAY(SKIN): WIPE OFF W/TOWEL.REMOV REMAIND W/MINERAL SPIRITS,TURPENT OR LACQ THNNR,INCASE OF LACQ.WASH W/SOAP/WATR.REMOVE CONTAM CLOTH.

TYPE OF RESPIRATORY PROTECTION

CASUAL USE,NONE REQD,PROVIDE VENTILATION IS AVAIL.

VENTILATION

DILUTION OR EXHAUST TO KEEP BELOW TLV

EYE PROTECTION

NO SPECIAL PROTECTION REQ

OTHER PROTECTIVE EQUIPMENT

HANDLING / STORAGE PRECAUTIONS

DO NOT STORE ABOVE 120F.STORE LG QUANT ITIES IN BLDGS DESIGNED & PROTECTED F/STORAGE OF NFPA CL IA FLAMMABLE LIQUIDS.

* * * * SPILL AND LEAK PROCEDURES * * * *

SPILL AND LEAK CONTROL

REMOV ALL SOURCES OF IGNIT (FLAMES,HOT SURFACES & ELECTR; STATIC OR FRICTIONAL SPARKS).AVOID BREATHING VAPORS.VENTILATE AREA. REMOVE W/INERT ABSORBENT.

WASTE ELIMINATION

DISPOSE OF IN ACCORD W/LOCAL, STATE & FEDERAL REGULATION. INCINERATE IN APPROVED FACILITY. DO NOT INCINERATE CLOSED CONTAINER .

OTHER PRECAUTIONS

DO NOT SPRAY IN EYES.DO NOT PUNCTROR INCIN CNS.DO NOT STICK PIN, NAIL OR ANYOTH SHARP OBJS INTO OPENING ON TOP OF CN.DO NOT TAKE INTERN.AVD BREATHING OF VAP MIST.DO NOT FLAME CUT,BRAZE OR (SUP)

SUPPLEMENTAL DATA

GLCQ019 I 7 * * * HAZARDOUS ITEM BASIC PUBLICATION * * *

NSN	FSCM	MGR	F P IND	PN IND	PART NUMBER/TRADE NAME	ACT CD	DATE	PAGE NR
8010-00-290-6984	70506	GSA	G	A	DR038-CONCENTRATE		80031	1

* * * * GENERAL INFORMATION * * * *

PROPRIETARY NO

MANUFACTURER: DEVOE & RAYNOLDS CO., INC.

EMERGENCY TELE NO: 714-686-6930

ITEM NAME: AEROSOL LACQUER

UI CN	UI CONTAINER QTY PT	TYPE OF CONT	NET UNIT WT	MAG/MILGAUS	EXEMPTION NO
		AEROSOL			

AEROSOL PROPELLANT

SPECIFICATION: TT-L-50

RADIOACTIVITY	FORM	TR GP	NRC LIC NUMBER	CHEMICAL NAME	CHEMICAL FAMILY	FORMULA

* * * * * HAZARDOUS COMPONENTS * * * * *

NIOSH NO	CHEMICAL NAME	PCT	T L V
XS5250000	TOLUENE	85.0	100 PPM
ZE2100000	XYLENE	5.0	100 PPM
KJ8575000	ETHYLENE GLYCOL MONOBUTYL ETHER	<5.0	50 PPM
EL6475000	METHYL ETHYL KETONE	<10	200 PPM

* * * * * * TRANSPORTATION DATA * * * * * *

DOT SHIPPING NAME: CONSUMER COMMODITY

CLASS: LABEL: MODE: ID NO: RQ:

WATER SHIPPING NAME:

CLASS: LABEL: UN NO: UN CLASS: COM GP: DOT: IMCO

TARIFF 6-D SHIPPING:

CLASS: LABEL:

IATA SHIPPING NAME:

CLASS: LABEL: IATA ARTICLE NO:

AFR 71-4 SHIPPING NAME:

CLASS: LABEL: NMAC:

* * * * * * ADDITIONAL DATA * * * * * *

J 7

NSN

ACT CD DATE PAGE NR

8010-00-290-6984 * * * * HEALTH AND PHYSICAL PROPERTY DATA * * * * 80031 2

BOILING POINT	VAP DEN/AIR=1/	SOL IN H2O	FLASH POINT	VAP PRESS/MM HG/70 F/	TLV-MIXTURE	STORAGE CODE
172-320F	>1	SLIGHT	38 F;3.3 C PMCC		SEE II	

APPEARANCE AND ODOR
BLACK, MOBILE LIQUID CONTAINING VOLATILE SOLVENTS.

LEL/PCT/	UEL/PCT/	SP GR	PCT VOLT BY VOL	EVAP RATE PER REFERENCE
		0.94	79.3	< ETHER

EFFECTS OF OVEREXPOSURE
INHALATION: HEADACHE, NAUSEA, DIZZINESS. SKIN CONTACT: MAY CAUSE SKIN IRRITATION IF PROLONGED.

NET PROP WT-AMMO NEW LB

STABLE	CONDITIONS TO AVOID	MATERIALS TO AVOID
YES NA		OXIDIZING MATERIALS; SOFTENS RUBBER

HAZ POLYMERIZATION OCCUR	CONDITIONS TO AVOID	AUTO IGN TEMP	VISCOSITY	CG AMMO CD
NO NA				

HAZARDOUS DECOMPOSITION PRODUCTS
CO; CO=2.

* * * * SAFETY STORAGE HANDLING AND FIRE FIGHTING PROCEDURES * * * *

EXTINGUISHING MEDIA
CO=2, DRY CHEMICAL, FOAM.

SPECIAL FIRE FIGHTING PROCEDURES
WEAR SELF-CONTAINED BREATHING APPARATUS.

UNUSUAL FIRE / EXPLOSION HAZARDS
WATER SHOULD BE USED TO COOL CONTAINERS EXPOSED TO FIRE.

PROTECTIVE GLOVES
PROLONGED USE.

EMERGENCY FIRST AID PROCEDURES
INHALATION: MOVE TO FRESH AIR. SKIN: FLUSH WITH LARGE AMOUNTS OF WATER. REMOVE CONTAMINATED CLOTHING. EYE CONTACT: FLUSH WITH CLEAN WATER FOR AT LEAST 15 MIN. CALL PHYSICIAN.

TYPE OF RESPIRATORY PROTECTION
U.S. BUR. MINES APPROVED RESPIRATOR IN CONFINED AREAS

VENTILATION
SUFFICIENT TO KEEP CONCENTRATION BELOW GIVEN TLV.

EYE PROTECTION
SOLVENT RESISTANT

OTHER PROTECTIVE EQUIPMENT
NORMAL PROTECTIVE CLOTHING.

HANDLING / STORAGE PRECAUTIONS
DO NOT STORE AT ELEVATED TEMPERATURES.

* * * * SPILL AND LEAK PROCEDURES * * * *

SPILL AND LEAK CONTROL
AVOID BREATHING VAPORS; EXTINGUISH IGNITION SOURCES IN IMMEDIATE AREA. AVOID CONTACT WITH LIQUID.

WASTE ELIMINATION
DISPOSE OF IN CLOSED CONTAINERS-AWAY FROM IGNITION SOURCES.

OTHER PRECAUTIONS
CLOSE CONTAINERS AFTER USE.

SUPPLEMENTAL DATA
BOILING POINT: 78.0-160C

GCC019 M17

NSN	FSCM	NCGR	* * * HAZARDOUS ITEM BASIC PUBLICATION * * * F P IND	PN IND	PART NUMBER/TRADE NAME	ACT CD	DATE	PAGE NR
8010-00-141-2952	11136		A	A	TT-L-50F		84325	1

* * * * GENERAL INFORMATION * * * *

PROPRIETARY MANUFACTURER EMERGENCY TELE NO

ITEM NAME UI EA | UI CONTAINER QTY | TYPE OF CONT | NET UNIT WT | MAG/MILGAUS | EXEMPTION NO

AEROSOL PROPELLANT SPECIFICATION

RADIOACTIVITY FORM TR GP NRC LIC NUMBER CHEMICAL NAME CHEMICAL FAMILY FORMULA

* * * * * HAZARDOUS COMPONENTS * * * * *

NIOSH NO CHEMICAL NAME PCT T L V

* * * * * * TRANSPORTATION DATA * * * * * *

DOT SHIPPING NAME: LACQUER BASE

CLASS: FLAMMABLE LIQUID LABEL: FLAMMABLE LIQUID MODE: ID NO: UN1263 RQ:

WATER SHIPPING NAME: LACQUERS

CLASS: FLAMMABLE LIQUID LABEL: FLAMMABLE LIQUID UN NO: 1263 UN CLASS: 3.1 COM GP: DOT: YES INCO YES

TARIFF 6-D SHIPPING: SEE TITLE 49 CFR, SECTION

CLASS: LABEL:

IATA SHIPPING NAME: FORBIDDEN

CLASS: LABEL: IATA ARTICLE NO:

AFR 71-4 SHIPPING NAME: LACQUER BASE UN1263

CLASS: FLAMMABLE LIQUID LABEL: FLAMMABLE LIQUID MMAC:

* * * * * * ADDITIONAL DATA * * * * * *

N17

N S N

ACT CD DATE PAGE NR

8010-00-141-2952 * * * * HEALTH AND PHYSICAL PROPERTY DATA * * * * 2

BOILING POINT VAP DEN/AIR=1/ SOL IN H20 FLASH POINT VAP PRESS/MM HG/70 F/ TLV-MIXTURE STORAGE CODE

25F -19C

APPEARANCE AND ODOR LEL/PCT/ UEL/PCT/ SP GR PCT VOLT BY VOL EVAP RATE PER REFERENCE

EFFECTS OF OVEREXPOSURE NET PROP WT-AMMO NEW LB

STABLE CONDITIONS TO AVOID MATERIALS TO AVOID

HAZ POLYMERIZATION OCCUR CONDITIONS TO AVOID AUTO IGN TEMP VISCOSITY CG AMMO CL

HAZARDOUS DECOMPOSITION PRODUCTS

* * * * SAFETY STORAGE HANDLING AND FIRE FIGHTING PROCEDURES * * * *

EXTINGUISHING MEDIA SPECIAL FIRE FIGHTING PROCEDURES

UNUSUAL FIRE / EXPLOSION HAZARDS PROTECTIVE GLOVES

EMERGENCY FIRST AID PROCEDURES

TYPE OF RESPIRATORY PROTECTION VENTILATION

EYE PROTECTION OTHER PROTECTIVE EQUIPMENT HANDLING / STORAGE PRECAUTIONS

* * * * SPILL AND LEAK PROCEDURES * * * *

SPILL AND LEAK CONTROL

WASTE ELIMINATION

OTHER PRECAUTIONS SUPPLEMENTAL DATA

GLC019 017

* * * HAZARDOUS ITEM BASIC PUBLICATION * * *

N S N	FSCM	MGR	F P IND	PN IND	PART NUMBER/TRADE NAME	ACT CD	DATE	PAGE NR
8010-00-141-2952	60957		N	A	DR055 RED ACRYLIC LACQUER		83026	1

* * * * GENERAL INFORMATION * * * *

PROPRIETARY NO

MANUFACTURER
DEVOE & RAYNOLDS CO., INC.

EMERGENCY TELE NO
(714)686-6930

ITEM NAME	UI	UI CONTAINER QTY	TYPE OF CONT	NET UNIT WT	MAG/MILGAUS	EXEMPTION NO
	CN	1PT				

AEROSOL PROPELLANT

SPECIFICATION
FED SPEC TT-L-506

RADIOACTIVITY	FORM	TR GP	NRC LIC NUMBER	CHEMICAL NAME	CHEMICAL FAMILY	FORMULA
			N/A	NOT A SINGLE CHEMICAL		

* * * * * HAZARDOUS COMPONENTS * * * * *

NIOSH NO	CHEMICAL NAME	PCT	T L V
XS5250000	TOLUENE	59.0	100 PPM
ZE2100000	XYLENE	7.0	100 PPM
KJ8575000	ETHYLENE GLYCOL MONOBUTYL ETHER (BUTYL CELLOSOLVE)	<3.5	50 PPM
EL6475000	METHYL ETHYL KETONE (ALSO:2-BUTANONE)	<3.5	200 PPM

* * * * * TRANSPORTATION DATA * * * * *

DOT SHIPPING NAME: PAINT,ENAMEL,LACQUER,STAIN,SHELLAC OR VARNISH

CLASS: FLAMMABLE LIQUID LABEL: FLAMMABLE LIQUID MODE: ID NO: RQ:

WATER SHIPPING NAME: PAINTS,ENAMELS,LACQUERS,SHELLAC STAINS,VARNISH

CLASS: FLAMMABLE LIQUID LABEL: FLAMMABLE LIQUID UN NO: 1263 UN CLASS: 3.2 COM GP: DOT: YES IMCO YES

TARIFF 6-D SHIPPING: PAINT,ENAMEL,LACQUER,STAIN,SHELLAC,OR VARNISH,LIQUID

CLASS: FLAMMABLE LIQUID LABEL: FLAMMABLE LIQUID

IATA SHIPPING NAME: PAINT,ENAMEL OR LACQUER OR STAIN OR SHELLAC OR VARNISH,LIQUID

CLASS: FLAMMABLE LIQUID LABEL: FLAMMABLE LIQUID IATA ARTICLE NO: 1263

AFR 71-4 SHIPPING NAME: PAINT,ENAMEL,LACQUER,STAIN,SHELLAC OR VARNISH,LIQUID

CLASS: FLAMMABLE LIQUID LABEL: FLAMMABLE LIQUID NMAC:

* * * * * ADDITIONAL DATA * * * * *

PRESSURIZED SPRAY CAN

-2952 * * * * HEALTH AND PHYSICAL PROPERTY DATA * * * * ACT CD 80157 DATE PAGE NR 2

BOILING POINT	VAP DEN/AIR=1/	SOL IN H2O	FLASH POINT	VAP PRESS/MM HG/70 F/	TLV-MIXTURE	STORAGE CODE
176-343F		SLIGHT	43F PMCC			

APPEARANCE AND ODOR
LIQUID CONTAINING VOLATILE SOLVENTS

LEL/PCT/	UEL/PCT/	SP GR	PCT VOLT BY VOL	EVAP RATE PER REFERENCE
		0.9500	75.7	SLOWER THAN ETHER

EFFECTS OF OVEREXPOSURE
HEADACHE, NAUSEA, DIZZINESS. SKIN: PROLONGED OR REPEATED CONTACT MAY CAUSE IRRITATION.

NET PROP WT-AMMO M/A NEW LB

CONDITIONS TO AVOID

MATERIALS TO AVOID
OXIDIZING MATERIALS; RUBBER SOFTENS

ZATION OCCUR
N/A

CONDITIONS TO AVOID

AUTO IGN TEMP VISCOSITY CG AMMO CD

HAZARDOUS DECOMPOSITION PRODUCTS
IDE, CARBON DIOXIDE

* * * * SAFETY STORAGE HANDLING AND FIRE FIGHTING PROCEDURES * * * *

EXTINGUISHING MEDIA
DE, DRY CHEMICAL, FOAM

SPECIAL FIRE FIGHTING PROCEDURES
SELF-CONTAINED BREATHING APPARATUS TO BE WORN BY FIREFIGHTER

UNUSUAL FIRE / EXPLOSION HAZARDS
BE USED TO COOL CONTAINERS EXPOSED TO FIRE

PROTECTIVE GLOVES
RECOMMENDED

EMERGENCY FIRST AID PROCEDURES
OVE TO FRESH AIR. SKIN CONTACT: FLUSH WITH LARGE AMOUNTS OF WATER. REMOVE CONTAMINATED CLOTHING. EYE CONTACT: FL
N WATER FOR AT LEAST 15 MIN. CALL A PHYSICIAN.

TYPE OF RESPIRATORY PROTECTION
REA USE APPROVED RESPIRATOR DEVICE.

VENTILATION
PROVIDE SUFFICIENT VENTILAT. TO KEEP CONCENTRATION BELOW TLV

TECTION
TANT

OTHER PROTECTIVE EQUIPMENT
NORMAL PROTECTIVE CLOTHING

HANDLING / STORAGE PRECAUTIONS
DO NOT STORE AT ELEVATED TEMPERATURES

* * * * SPILL AND LEAK PROCEDURES * * * *

SPILL AND LEAK CONTROL
NG VAPORS. EXTINGUISH IGNITION SOURCES IN IMMEDIATE AREA. AVOID CONTACT WITH LIQUID.

WASTE ELIMINATION
CLOSED CONTAINERS AWAY FROM IGNITION SOURCES.

OTHER PRECAUTIONS

ERS AFTER USE

SUPPLEMENTAL DATA

PRODUCT CONTAINS ACRYLIC LACQUER VEHICLE (26%) AND PIGMENT, TYPE UNSPECIFIED (5%).

B18 * * * HAZARDOUS ITEM BASIC PUBLICATION * * *

FSCM	NGR	F P IND	PN IND	PART NUMBER/TRADE NAME	ACT CD	DATE	PAGE NR
-2952	7F670	F	A	RED ACRYLIC LACQUER			1

* * * * GENERAL INFORMATION * * * *

MANUFACTURER
DEVOE & RAYNOLDS CO, INC.

EMERGENCY TELE NO
(714) 686-6930

ITEM NAME	UI	UI CONTAINER QTY	TYPE OF CONT	NET UNIT WT	MAG/MILGAUS	EXEMPTION NO
AEROSOL PROPELLANT						

SPECIFICATION
TT-L-506

FORM	TR GP	NRC LIC NUMBER	CHEMICAL NAME	CHEMICAL FAMILY	FORMULA
			NOT APPLICABLE	ACRYLIC	

* * * * * HAZARDOUS COMPONENTS * * * * *

CHEMICAL NAME	PCT	T L V

* * * * * * TRANSPORTATION DATA * * * * * *

PING NAME:

LABEL: NODE: ID NO: RQ:

PING NAME:

LABEL: UN NO: UN CLASS: COM GP: DOT: IMCO

SHIPPING:

LABEL:

PING NAME:

LABEL: IATA ARTICLE NO:

PING NAME:

LABEL: NMAC:

* * * * * * ADDITIONAL DATA * * * * * *

C18

								ACT CD	DATE	PAGE NR
1-2952			* * * * HEALTH AND PHYSICAL PROPERTY DATA * * * *					A	85026	2
BOILING POINT	VAP DEN/AIR=1/	SOL IN H2O	FLASH POINT	VAP PRESS/MM HG/70 F/			TLV-MIXTURE		STORAGE CODE	
343F	>AIR	SLIGHT	43F PMCC							
APPEARANCE AND ODOR			LEL/PCT/	UEL/PCT/	SP GR	PCT VOLT BY VOL	EVAP RATE PER REFERENCE			
LIQUID CONTAINING VOLATILE SOLVENTS					0.95	75.6	SLOWER THAN ETHER			

EFFECTS OF OVEREXPOSURE

HEADACHE, NAUSEA, DIZZINESS. SKIN: PROLONGED OR REPEATED CONTACT MAY CAUSE IRRITATION.

NET PROP WT-AMMO | MEN LB

CONDITIONS TO AVOID

APPLIICABLE

MATERIALS TO AVOID

OXIDIZING MATERIALS, RUBBER SOFTENS.

ZATION OCCUR | CONDITIONS TO AVOID | AUTO IGN TEMP | VISCOSITY | CG AMMO CD

NOT APPLICABLE

HAZARDOUS DECOMPOSITION PRODUCTS

IDE, CARBON DIOXIDE

* * * * SAFETY STORAGE HANDLING AND FIRE FIGHTING PROCEDURES * * * *

EXTINGUISHING MEDIA

DE, DRY CHEMICAL, FOAM

SPECIAL FIRE FIGHTING PROCEDURES

SELF CONTAINED BREATHING APPARATUS SHOULD BE WORN BY FIRE.

UNUSUAL FIRE / EXPLOSION HAZARDS

BE USED TO COOL CONTAINERS EXPOSED TO FIRE.

PROTECTIVE GLOVES

PROLONGED

EMERGENCY FIRST AID PROCEDURES

MOVE TO FRESH AIR. SKIN: FLUSH WITH LARGE AMOUNTS OF WATER. REMOVE CONTAMINATED CLOTHING. EYE: FLUSH WITH CLEAN W
LEAST 15 MINUTES. CALL PHYSICIAN.

TYPE OF RESPIRATORY PROTECTION

AREAA USE U.S. B OF M APPROVED RESPIRATOR DEVICE.

VENTILATION

PROVIDE LOCAL VENTILATION TO KEEP BELOW TLV AND LEL.

DTECTION | OTHER PROTECTIVE EQUIPMENT | HANDLING / STORAGE PRECAUTIONS

STANT | NORMAL PROTECTIVE CLOTHING. | DO NOT STORE AT ELEVATED TEMPERATURES.

* * * * SPILL AND LEAK PROCEDURES * * * *

SPILL AND LEAK CONTROL

ING VAPORS, EXTINGUISH IGNITION SOURCES IN IMMEDIATE AREA. AVOID CONTACTITH LIQUID.

WASTE ELIMINATION

N CLOSED CONTAINERS AWAY FROM IGNITION SOURCES.

OTHER PRECAUTIONS

SUPPLEMENTAL DATA

NERS AFTER USE.

D18 * * * HAZARDOUS ITEM BASIC PUBLICATION * * *

	FSCM	MGR	F P IND	PN IND	PART NUMBER/TRADE NAME	ACT CD	DATE	PAGE NR
1952	70506	6SA	6	A	DROSS-CONCENTRATE		80016	1

* * * * GENERAL INFORMATION * * * *

MANUFACTURER
DEVOE & RAYNOLDS CO INC

EMERGENCY TELE NO
714-686-6930

ITEM NAME	UI	UI CONTAINER QTY	TYPE OF CONT	NET UNIT WT	MAG/MILGAUS	EXEMPTION NO
ER-AEROSOL	CN	14 FL OZ				

AEROSOL PROPELLANT

SPECIFICATION
TT-L-50

FORM	TR CD	NRC LIC NUMBER	CHEMICAL NAME	CHEMICAL FAMILY	FORMULA

* * * * * HAZARDOUS COMPONENTS * * * * *

CHEMICAL NAME	PCT	T L V
TOLUENE	86.0	100 PPM
XYLENE	12.0	100 PPM
METHYL-ETHYL KETONE	<5.0	200 PPM
ETHYLENE GLYCOL MONOBUTYL ETHER	<5.0	50 PPM

* * * * * * TRANSPORTATION DATA * * * * * *

ING NAME: CONSUMER COMMODITY

LABEL: MODE: ID NO: RQ:

ING NAME:

LABEL: UN NO: UN CLASS: CON GP: DOT: IMCO

SHIPPING:

LABEL:

ING NAME:

LABEL: IATA ARTICLE NO:

ING NAME:

LABEL: MMAC:

* * * * * * ADDITIONAL DATA * * * * * *

E18

S N					ACT CD	DATE	PAGE NR
-141-2952	*** * * * HEALTH AND PHYSICAL PROPERTY DATA * * * ***					80016	2

BOILING POINT	VAP DEN/AIR=1/	SOL IN H20	FLASH POINT	VAP PRESS/MM HG/70 F/	TLV-MIXTURE	STORAGE CODE
176-343 F	>1	SLIGHT	43 F,6.1 C PMCC		SEE SECTION II	

APPEARANCE AND ODOR	LEL/PCT/	UEL/PCT/	SP GR	PCT VOLT BY VOL	EVAP RATE PER REFERENCE
IQUID WITH VOLATILE SOLVENTS, RED COLOR			0.95	75.7	SLOWER THAN ETHER

EFFECTS OF OVEREXPOSURE

ON-HEADACHE, NAUSEA, DIZZINESS. PROLONGED OR REPEATED CONTACT MAY CAUSE SKIN IRRITATION.

MET PROP WT-AMMO | MEM LB

CONDITIONS TO AVOID

MATERIALS TO AVOID

OXIDIZING MATERIALS SOFTEN RUBBER

HERIZATION OCCUR	CONDITIONS TO AVOID	AUTO IGN TEMP	VISCOSITY	CG AMMO CD
NO				

HAZARDOUS DECOMPOSITION PRODUCTS

ONOXIDE, CARBON DIOXIDE

*** * * * SAFETY STORAGE HANDLING AND FIRE FIGHTING PROCEDURES * * * ***

EXTINGUISHING MEDIA

IOXIDE, DRY CHEMICAL, FOAM

SPECIAL FIRE FIGHTING PROCEDURES

SELF-CONTAINED BREATHING APPARATUS SHOULD BE WORN BY FIREMEN

UNUSUAL FIRE / EXPLOSION HAZARDS

R TO COOL CONTAINERS EXPOSED TO FIRE

PROTECTIVE GLOVES

PROLONGED USE

EMERGENCY FIRST AID PROCEDURES

ON-MOVE TO FRESH AIR. SKIN CONTACT-FLUSH WITH LARGE AMOUNT OF WATER; REMOVE CONTAMINATED CLOTHING. EYE CONTACT-FLUSH AN WATER FOR AT LEAST 15 MIN.-CALL PHYSICIAN.

TYPE OF RESPIRATORY PROTECTION

WED AREA USE U.S. BUR. OF MINES APPROVED RESPIRATOR.

VENTILATION

LOCAL-SUFFICIENT TO KEEP CONCENTRATION BELOW GIVEN TLV.

E PROTECTION
RESISTANT

OTHER PROTECTIVE EQUIPMENT

NORMAL PROTECTIVE CLOTHING

HANDLING / STORAGE PRECAUTIONS

DO NOT STORE AT ELEVATED TEMPERATURES.

*** * * * SPILL AND LEAK PROCEDURES * * * ***

SPILL AND LEAK CONTROL

EATHING VAPORS; EXTINGUISH IGNITION SOURCES IN AREA. AVOID CONTACT WITH LIQUID.

WASTE ELIMINATION

OF IN CLOSED CONTAINERS AWAY FROM IGNITION SOURCES.

OTHER PRECAUTIONS

NTAINERS AFTER USE

SUPPLEMENTAL DATA

BOILING POINT: 80-172.8 C

F18 * * * HAZARDOUS ITEM BASIC PUBLICATION * * *

I	FSCM	MGR	F P IND	PN IND	PART NUMBER/TRADE NAME	ACT CD	DATE	PAGE NR
-2952	91794	GSA	G	A	IB NO 2654		80071	1

* * * * GENERAL INFORMATION * * * *

MANUFACTURER
ILLINOIS BRONZE POWDER AND PAINT COMPANY

EMERGENCY TELE NO
312-438-8201

ITEM NAME	UI CN	UI CONTAINER QTY PT	TYPE OF CONT	NET UNIT WT	MAG/WILGAUS	EXEMPTION NO
UER AEROSOL			AEROSOL			

AEROSOL PROPELLANT

SPECIFICATION
TT-L-50

Y	FORM	TR GP	NRC LIC NUMBER	CHEMICAL NAME	CHEMICAL FAMILY	FORMULA

* * * * * HAZARDOUS COMPONENTS * * * * *

CHEMICAL NAME	PCT	T L V
TOLUENE	24.1	100 PPM
METHYLENE CHLORIDE	26.7	250 PPM

* * * * * * TRANSPORTATION DATA * * * * * *

PING NAME: FLAMMABLE COMPRESSED GAS

LABEL: NONE MODE: ID NO: RQ:

PING NAME:

LABEL: UN NO: UN CLASS: COM GP: DOT: IMCO

SHIPPING:

LABEL:

PING NAME:

LABEL: IATA ARTICLE NO:

PING NAME:

LABEL: MMAC:

* * * * * * ADDITIONAL DATA * * * * * *

952 * * * * HEALTH AND PHYSICAL PROPERTY DATA * * * * ACT CD DATE 80071 PAGE NR 2

ILING POINT 2-391F | VAP DEN/AIR=1/ | SOL IN H20 | FLASH POINT -40F,-40C | VAP PRESS/MM HG/70 F/ | TLV-MIXTURE SEE SECTION II | STORAGE CODE

APPEARANCE AND ODOR | LEL/PCT/ 1.3% | UEL/PCT/ | SP GR | PCT VOLT BY VOL 89 | EVAP RATE PER REFERENCE

EFFECTS OF OVEREXPOSURE

STHETIC;IRRITATION OF RESPIRATORY TRACT;DIZZINESS.SKIN OR EYE-PRIMARY IRRITATION | NET PROP WT-AMMO | NEW LB

CONDITIONS TO AVOID | MATERIALS TO AVOID

TION OCCUR | CONDITIONS TO AVOID | AUTO IGN TEMP | VISCOSITY | CG AMMO CD

HAZARDOUS DECOMPOSITION PRODUCTS
E

* * * * SAFETY STORAGE HANDLING AND FIRE FIGHTING PROCEDURES * * * *

EXTINGUISHING MEDIA

XTINGUISHERS

SPECIAL FIRE FIGHTING PROCEDURES

WATER TO COOL CONTAINERS WEAR GOGGLES & BREATHING APPARATUS.

UNUSUAL FIRE / EXPLOSION HAZARDS

URE AT 190F AND DISCHARGE FLAMMABLE CONTENTS

PROTECTIVE GLOVES

NONE

EMERGENCY FIRST AID PROCEDURES

ROM EXPOSURE.MOVE TO FRESH AIR.EYES-FLUSH WITH LARGE AMOUNTS OF WATER FOR AT LEAST 15 MIN.CALL PHYSICIAN.SKIN-W
DWEL.REMOVE REMAINDER WITH MINERAL SPIRITS OR LACQUER REMOVER.WASH WITH SOAP & WATER.

TYPE OF RESPIRATORY PROTECTION

L USE

VENTILATION

DILUTION OR EXHAUST TO KEEP BELOW TLV

ECTION
UIRED

OTHER PROTECTIVE EQUIPMENT

HANDLING / STORAGE PRECAUTIONS

DO NOT STORE ABOVE 120F.STORE LARGE QU

ILDINGS DESIGNED AND PROTECTED FOR STORAGE OF NFPA CLASS 1A FLAMMABLE LIQUIDS

* * * * SPILL AND LEAK PROCEDURES * * * *

PILL AND LEAK CONTROL

RCES OF IGNITION.AVOID BREATHING VAPORS.VENTILATE AREA.REMOVE WITH INERT ABSORBENT

ASTE ELIMINATION

ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.INCINERATE IN APPROVED FACILITY.DO NOT INCINERATE CLOSED C

OTHER PRECAUTIONS

SUPPLEMENTAL DATA

N EYES.DO NOT PUNCTURE OR INCINERATE CANS.DO NOT F
E OR WELD WITHOUT BUR. OF MINES APPROVED RESPIRATO
TE VENTILATION

B.P. RANGE 6-199C

UNITED STATES MARINE CORPS
MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA 28542-5001

IN REPLY REFER TO:
6240
BEMD
22 Feb 90

From: Director, Hazardous Waste and Pollution Control Division
To: Distribution

Subj: MATERIAL SAFETY DATA SHEET

Encl: (1) MSDS for Chemical Toilet Solution

1. The enclosure is provided for your information.

D. D. Sharpe

D. D. SHARPE

Distribution:
BFIRE
BSAFE
BMAIN (Utilities)
Industrial Hygiene
P & C (Attn: Kathy Gill)
MCAS, Ground Safety (Attn: Mary Wheat)

Section V — Reactivity Data

Stability			Conditions to Avoid
	Unstable		
	Stable		

Incompatibility (*Materials to Avoid*)
none known

Hazardous Decomposition or Byproducts
none known

Hazardous Polymerization			Conditions to Avoid
	May Occur		
	Will Not Occur	✓	

Section VI — Health Hazard Data

Route(s) of Entry: Inhalation? yes Skin? yes Ingestion? yes

Health Hazards (*Acute and Chronic*)
gastrointestinal, intoxication

Carcinogenicity: NTP? not known IARC Monographs? OSHA Regulated?

Signs and Symptoms of Exposure
Blue discoloration of skin

Medical Conditions
Generally Aggravated by Exposure
emphysema

Emergency and First Aid Procedures
wash affected warm soapy water
if acute induce vomiting

Section VII — Precautions for Safe Handling and Use

Steps to Be Taken in Case Material Is Released or Spilled
wash off immediately

Waste Disposal Method
sewage plant

Precautions to Be Taken in Handling and Storing
avoid contact with skin - do not swallow

Other Precautions
none

Section VIII — Control Measures

Respiratory Protection (*Specify Type*)
none

Ventilation		
	Local Exhaust: open air	Special
	Mechanical (*General*)	Other

Protective Gloves: yes
Eye Protection: yes

Other Protective Clothing or Equipment
long sleeve lab coat

Work/Hygienic Practices
wash often

* U.S.G.P.O. 1986-491-529/45775

Material Safety Data Sheet

May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910.1200. Standard must be consulted for specific requirements.

U.S. Department of Labor
Occupational Safety and Health Administration
(Non-Mandatory Form)
Form Approved
OMB No. 1218-0072

IDENTITY *(As Used on Label and List)*

Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.

Section I

Manufacturer's Name: Down East Chemical Co.	Emergency Telephone Number: 919-448-8781 or 919-577-2345
Address *(Number, Street, City, State, and ZIP Code)*: P.O. Box 926, Jacksonville, N.C. 28540	Telephone Number for Information: 919-347-2424
	Date Prepared: January 3, 1990
	Signature of Preparer *(optional)*

Section II — Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity; Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	% *(optional)*
Surfactant- NP-9 (not hazardous) nonylphenol polyethylene glyiolethen				
Poly Tergent B 500 (not hazardous) nonylphenoxyeoyethoxy ethenol water				
Acid Blue #9 Dye (non hazardous) ammomium, (Ethyl 4- Dethyl) M-Sulfobenzyl Aminoalpha, O-Sulfgshina-benzylidene-2, 5, Cyclohexodien, 1-Ylidine, M-Sulfenzyl, Hydroxide, inner salt, diamnium, salt CI Acid #9 Case reg. #3844-45-9				
Bubble gum, cherry or floral fragrance-not applicable				
Industrial cherry, bubble gum orfloral				
Formaldehyde: with (with-out)				

Section III — Physical/Chemical Characteristics

Boiling Point: 100 Degrees F		Specific Gravity (H_2O = 1): 1.025	
Vapor Pressure (mm Hg.): 76 Degrees		Melting Point: 06 Degrees F	
Vapor Density (AIR = 1): 1.15		Evaporation Rate (Butyl Acetate = 1): 1.1	

Solubility in Water: 100%

Appearance and Odor: Blue; Cherry, bubble gum or floral

Section IV — Fire and Explosion Hazard Data

Flash Point (Method Used)	Flammable Limits	LEL	UEL
not applicable	non-flamable		

Extinguishing Media: not applicable

Special Fire Fighting Procedures: not applicable

Unusual Fire and Explosion Hazards: none

ENCLOSURE (1)

3

ALC010 N11

* * * HAZARDOUS ITEM BASIC PUBLICATION * * *

NSN	FSCM	MGR	F P IND	PN IND	PART NUMBER/TRADE NAME	ACT CD	DATE	PAGE NR
7930-00-282-9699	53984	GSA	G	A	7060L			1

* * * * GENERAL INFORMATION * * * *

PROPRIETARY NO: CHEMSCOPE CORP

MANUFACTURER

EMERGENCY TELE NO: 817-261-2287

ITEM NAME: DETERGENT GENERAL PURPOSE

UI | UI CONTAINER QTY | TYPE OF CONT | NET UNIT WT | MAG/MILGAUS | EXEMPTION NO

AEROSOL PROPELLANT

SPECIFICATION: MIL-D-16791E

RADIOACTIVITY | FORM | TR GP | NRC LIC NUMBER | CHEMICAL NAME | CHEMICAL FAMILY | FORMULA

* * * * * HAZARDOUS COMPONENTS * * * * *

NIOSH NO | CHEMICAL NAME | PCT | T L V

* * * * * * TRANSPORTATION DATA * * * * * *

DOT SHIPPING NAME:

CLASS: LABEL: MODE: ID NO: RQ:

WATER SHIPPING NAME:

CLASS: LABEL: UN NO: UN CLASS: COM GP: DOT: IMCO

TARIFF 6-D SHIPPING:

CLASS: LABEL:

IATA SHIPPING NAME:

CLASS: LABEL: IATA ARTICLE NO:

AFR 71-6 SHIPPING NAME:

CLASS: LABEL: NMAC:

* * * * * * ADDITIONAL DATA * * * * * *

011

N S N

7930-00-282-9699

ACT CD DATE PAGE NR

81075 2

* * * * HEALTH AND PHYSICAL PROPERTY DATA * * * *

BOILING POINT 560F,293.3C | VAP DEN/AIR=1/ 1.5 | SOL IN H2O COMPLETE | FLASH POINT 550F,287.7C TOC | VAP PRESS/MM HG/70 F/ | TLV-MIXTURE | STORAGE CODE

APPEARANCE AND ODOR

TRANSLUCENT

LEL/PCT/ | UEL/PCT/ | SP GR 1.07 | PCT VOLT BY VOL | EVAP RATE PER REFERENCE

EFFECTS OF OVEREXPOSURE

SKIN AND EYE IRRITANT

NET PROP WT-AMMO | NEW LB

STABLE

NO

CONDITIONS TO AVOID

MATERIALS TO AVOID

HAZ POLYMERIZATION OCCUR

NO

CONDITIONS TO AVOID

AUTO IGN TEMP | VISCOSITY | CG AMMO CD

HAZARDOUS DECOMPOSITION PRODUCTS

* * * * SAFETY STORAGE HANDLING AND FIRE FIGHTING PROCEDURES * * * *

EXTINGUISHING MEDIA ,

SPECIAL FIRE FIGHTING PROCEDURES

UNUSUAL FIRE / EXPLOSION HAZARDS

PROTECTIVE GLOVES

WASH SKIN AND EYES

EMERGENCY FIRST AID PROCEDURES

TYPE OF RESPIRATORY PROTECTION

VENTILATION

EYE PROTECTION

OTHER PROTECTIVE EQUIPMENT

HANDLING / STORAGE PRECAUTIONS

* * * * SPILL AND LEAK PROCEDURES * * * *

MOP UP

SPILL AND LEAK CONTROL

WASTE ELIMINATION

OTHER PRECAUTIONS

SUPPLEMENTAL DATA

TYPE I OF SPEC.

GLC019 A12

* * * HAZARDOUS ITEM BASIC PUBLICATION * * *

NSN	FSCM	MGR	F P IND	PN IND	PART NUMBER/TRADE NAME	ACT CD	DATE	PAGE NR
7930-00-282-9699	58215	N	A		TRITON X-100 SURFACTANT (6-1572) TYPE 1		84165	1

* * * * GENERAL INFORMATION * * * *

PROPRIETARY NO

MANUFACTURER
NATIONAL DIAGNOSTICS

EMERGENCY TELE NO
(201) 874-8696

ITEM NAME
DETERGENT,GENERAL

UI	UI CONTAINER QTY	TYPE OF CONT	NET UNIT WT	MAG/NILGAUS	EXEMPTION NO

AEROSOL PROPELLANT

SPECIFICATION
MIL-D-16791

RADIOACTIVITY	FORM	TR GP	NRC LIC NUMBER	CHEMICAL NAME	CHEMICAL FAMILY	FORMULA
			N/A			

* * * * * HAZARDOUS COMPONENTS * * * * *

MIXTURE NO	CHEMICAL NAME	PCT	T L V
M0000700	OCTYLPHENOXYPOLETHANOL	99+	NOT ESTAB (MFR)

* * * * * * TRANSPORTATION DATA * * * * * *

DOT SHIPPING NAME: N/A
CLASS: LABEL: MODE: ID NO: RQ:

WATER SHIPPING NAME: N/A
CLASS: LABEL: UN NO: UN CLASS: CON GP: DOT: IMCO

TARIFF 6-D SHIPPING: N/A
CLASS: LABEL:

IATA SHIPPING NAME: N/A
CLASS: LABEL: IATA ARTICLE NO:

AFR 71-4 SHIPPING NAME: N/A
CLASS: LABEL: NMAC:

* * * * * * ADDITIONAL DATA * * * * * *

NOT REGULATED FOR SHIPPING.

B12

N S N

7930-00-282-9699

ACT CD DATE PAGE VR

84139 2

* * * * HEALTH AND PHYSICAL PROPERTY DATA * * * *

BOILING POINT: 270C,520F

VAP DEN/AIR=1/: 21.0

SOL IN H2O: COMPLETE

FLASH POINT: >300F TOC

VAP PRESS/MM HG/70 F/

TLV-MIXTURE

STORAGE CODE

APPEARANCE AND ODOR
CLEAR VISCOUS LIQ; MILD ODOR; PH 5% SOLN -6-8.

LEL/PCT/

UEL/PCT/

SP GR: 1.07

PCT VOLT BY VOL: 0

EVAP RATE PER REFERENCE: <1.0 (BU AC)

EFFECTS OF OVEREXPOSURE
EYES: SEV PERSIST IRRIT. POSS CONEAL DAMAGE. SKIN:PRLNG/RPTD CONTACT MILD/MOD IRRIT.

NET PROP WT-AMMO: M/A

NEW LB

STABLE
YES

CONDITIONS TO AVOID
EXCESSIVE HEAT

MATERIALS TO AVOID
STRONG OXIDIZING OR REDUCING AGENTS.

HAZ POLYMERIZATION OCCUR
NO

CONDITIONS TO AVOID

AUTO IGN TEMP

VISCOSITY

CG AMMO CD

HAZARDOUS DECOMPOSITION PRODUCTS
THERMAL DECOMP MAY YIELD OXIDES OF CARBON.

* * * * SAFETY STORAGE HANDLING AND FIRE FIGHTING PROCEDURES * * * *

EXTINGUISHING MEDIA
CO2,DRY CHEMICAL,WATER FOG. COOL EXPOS CANS -WATER SPRAY.

SPECIAL FIRE FIGHTING PROCEDURES
WEAR SELF-CONT BRTH APPAR (NIOSH/MSHA)

UNUSUAL FIRE / EXPLOSION HAZARDS
EXPLOSIVE MIXTURES MAY FORM BY COMPOUNDING W/STRONG OXIDIZING OR REDUCING AGENTS.

PROTECTIVE GLOVES
IMPERVIOUS

EMERGENCY FIRST AID PROCEDURES
INH: VAPOR,GIVE OFF AT HI TEMP,MAY CAUSE TGRAT IRRIT. MOVE SUBJECT TO FRESH AIR. EYES: MILD HEALTH HAZ. FLUSH W/PLENTY OF WAT ER AT LEAST 15 MIN,GET PROMPT MEDICAL ATTN. SKIN: WASH W/SOAP/WATER; WASH CONTAM CLOTHES BEFORE REUSE; (SEE SUPP DATA)

TYPE OF RESPIRATORY PROTECTION
NIOSH/MSHA APPRVD RESP IF CONDITIONS REQUIRED

VENTILATION
MECHANICAL DILUTION VENTILATION (FAN)

EYE PROTECTION
SPLASHPROOF GOGGLES

OTHER PROTECTIVE EQUIPMENT
EYEWASH FACILITY. MFR RECM ANSI Z87.1,1968 EYE PROTECTION.

HANDLING / STORAGE PRECAUTIONS
STORE AWAY FROM HEAT SOURCES.LOW TEMP STORAGE MAY PRESENT HANDLING PROBLEMS DUE TO INCREASED VISCOSITY.

* * * * SPILL AND LEAK PROCEDURES * * * *

SPILL AND LEAK CONTROL
WEAR EYE PROTECTION & IMPERVIOUS CLOTHES. DIKE & CONTAIN W/INERT MATRL (SAND,EARTH ETC)& TRANSFER LIQ & SOLID DIKING MATRL SE PARATELY TO CONTAINERS FOR RECOVERY OR DISPOSAL. FLOOR MAY BE SLIPPERY. REMOVE CONTAM CLOTHES & LAUNDER. KEEP FROM SEWERS.

WASTE ELIMINATION
MFR RECM: INCINERATE LIQ IN APPROVED EQUIP. LANDFILL CONTAM DIKING MATERIAL; RECOGNIZING THAT SIGNIFICANT QTY REACHING A STRE AM OR TREATMENT PLANT VIA LEACHATE CAN CAUSE FOAMING. LANDFILL MUST BE LG ENOUGH TO ABSORB. DISPOSE IAW FED,STATE,LOCAL CODES

OTHER PRECAUTIONS

SUPPLEMENTAL DATA

INGEST: DILUTE BY GIVING WATER TO DRINK & CALL A PHYSICIAN. NEVE R GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON VAPOR PRESSURE :NIL AT 20C. FREEZING PT: 45F POUR PT. VISCOSITY:240 CPS.

GLC019 C12

* * * HAZARDOUS ITEM BASIC PUBLICATION * * *

N S N	FSCM	MGR	F P IND	PN IND	PART NUMBER/TRADE NAME	ACT CD	DATE	PAGE NR
A 7930-00-282-9699	77902		N	A	TRITON X-100 SURFACTANT,6-1572	A	85228	1

* * * * GENERAL INFORMATION * * * *

PROPRIETARY NO	MANUFACTURER	EMERGENCY TELE NO
	ROHM & HAAS COMPANY	215-592-3000

ITEM NAME	UI	UI CONTAINER QTY	TYPE OF CONT	NET UNIT WT	MAG/MILGAUS	EXEMPTION NO
DETERGENT,GENERAL						

AEROSOL PROPELLANT

RADIOACTIVITY	FORM	TR GP	NRC LIC NUMBER	CHEMICAL NAME	CHEMICAL FAMILY	SPECIFICATION	FORMULA
			N/A			MIL-D-16791	

* * * * * HAZARDOUS COMPONENTS * * * * *

NIOSH NO	CHEMICAL NAME	PCT	T L V
NN0907600	OCTYLPHENOXYPOLYETHOXYETHANOL (HIGH HEALTH HAZARD-MFR)	>99	

* * * * * * TRANSPORTATION DATA * * * * * *

DOT SHIPPING NAME: N/A
CLASS: LABEL: MODE: ID NO: RQ:

WATER SHIPPING NAME: N/A
CLASS: LABEL: UN NO: UN CLASS: CON GP: DOT: IMCO

TARIFF 6-D SHIPPING: N/A
CLASS: LABEL:

IATA SHIPPING NAME: N/A
CLASS: LABEL: IATA ARTICLE NO:

AFR 71-4 SHIPPING NAME: N/A
CLASS: LABEL: NMAC:

* * * * * * ADDITIONAL DATA * * * * * *

NOT REGULATED FOR SHIPPING.

012

M S N

7930-00-282-9699

ACT CD DATE PAGE NR

A 84226 2

* * * * HEALTH AND PHYSICAL PROPERTY DATA * * * *

BOILING POINT	VAP DEN/AIR=1/	SOL IN H2O	FLASH POINT	VAP PRESS/MM HG/70 F/	TLV-MIXTURE	STORAGE CODE
520F;270C	21.0	COMPLETE	>300F;149C (TOC)	0		

APPEARANCE AND ODOR
CLEAR VISCOUS LIQ;MILD ODOR.

LEL/PCT/	UEL/PCT/	SP GR	PCT VOLT BY VOL	EVAP RATE PER REFERENCE
		1.07	0	<1 (BUAC=1)

EFFECTS OF OVEREXPOSURE
EYES: SEVERE PERSISTANT IRRIT. CORNEAL DAMAGE AFTER PROLONGED CONTACT. (SEE SUPP DATA)

NET PROP WT-AMMO N/A NEW LB

STABLE
YES

CONDITIONS TO AVOID
EXCESSIVE HEAT

MATERIALS TO AVOID
STRONG OXIDIZING & REDUCING AGENTS

HAZ POLYMERIZATION OCCUR
NO

CONDITIONS TO AVOID

AUTO IGN TEMP VISCOSITY CG AMMO CD

HAZARDOUS DECOMPOSITION PRODUCTS
THERMAL DECOMPOSITION MAY YIELD OXIDES OF CARBON.

* * * * SAFETY STORAGE HANDLING AND FIRE FIGHTING PROCEDURES * * * *

EXTINGUISHING MEDIA
CO=2, DRY CHEM, WATER FOG.

SPECIAL FIRE FIGHTING PROCEDURES
USE NIOSH/MSHA SCBA. USE H=20 SPRAY TO COOL FIRE EXPOSED CAN

UNUSUAL FIRE / EXPLOSION HAZARDS
EXPLOSIVE MIXTURES MAY FORM BY COMPOUNDING W/ STRONG OXIDIZING OR REDUCING AGENTS.

PROTECTIVE GLOVES
IMPERVIOUS

EMERGENCY FIRST AID PROCEDURES
EYES: FLUSH W/ H=20 FOR 15 MIN. CALL MD. SKIN: WASH SKIN THOROUGHLY W/ SOAP & H=20,REMOVE & WASH CLOTHING BEFORE REUSE. INGES
: DILUTE BY GIVING H=20 TO DRINK & CALL MD. DO NOT GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. INH: REMOVE TO FRESH AIR.

TYPE OF RESPIRATORY PROTECTION
NONE REQUIRED FOR NORMAL OPERATIONS (NFR).

VENTILATION
MECHANICAL DILUTION FAN/VENTILATION

EYE PROTECTION
SPLASH PROOF GOGGLES

OTHER PROTECTIVE EQUIPMENT
EYEWASH FACILITY

HANDLING / STORAGE PRECAUTIONS
MAY PRESENT HANDLING PROBLEMS DUE TO INCREASED VISCOSITY. PROD IS CORROSIVE TO COPPER & BRASS ON LONG STORAGE.
STORE AWAY FROM HEAT SOURCES. LOW TEMP

* * * * SPILL AND LEAK PROCEDURES * * * *

SPILL AND LEAK CONTROL
WEAR EYE PROTECTION & IMPERVIOUS CLOTHING. DIKE & CONTAIN SPILL W/INERT MATERIAL. TRANSFER LIQ & SOLID DIKING MATERIAL SEPARA
TELY TO CANS FOR RECOVERY OR DISPOSAL. FLOOR MAY BE SLIPPERY, USE CARE TO AVOID FALL. KEEP SPILL OUT OF SEWERS/OPEN WATERS.

WASTE ELIMINATION
NFR RECM: INCINERATE LIQ. DIKING MATERIAL SHOULD BE LANDFILLED AT A SITE LARGE ENOUGH TO ABSORB THE SURFACTANT. IF LARGE AMOU
NTS REACH A STREAM OR TREATMENT PLANT VIA LEACHATE, FOAMING MAY RESULT. DISPOSAL METHOD MUST BE IAW FED, STATE & LOCAL CODES.

OTHER PRECAUTIONS
THIS MATERIAL IS RATED A HIGH HEALTH HAZARD DUE TO CORNEAL DAMAG
E. SPEC; TYPE I.

SUPPLEMENTAL DATA
PH OF 5% SOLUTION = 6-8. OVEREXPOSURE; SKIN; RPTD/PRLNG CONTACT-
MILD TO MOD IRRIT. VAPORS, GIVEN OFF @ HI TEMP, MAY CAUSE THROAT
IRRIT. HARMFUL IF SWALLOWED. CONTAINER: 1 GAL.

GLC019 E12

* * * HAZARDOUS ITEM BASIC PUBLICATION * * *

NSN	FSCM	MGR	F P IND	PN IND	PART NUMBER/TRADE NAME	ACT CD	DATE	PAGE NR
7930-00-282-9699	82925	GSA	G	A	IGEPAL CC 630		82258	1

* * * * GENERAL INFORMATION * * * *

PROPRIETARY NO	MANUFACTURER	EMERGENCY TELE NO
	OCTAGON PROCESSING	201-945-9400

ITEM NAME	UI	UI CONTAINER QTY	TYPE OF CONT	NET UNIT WT	MAG/MILGAUS	EXEMPTION NO
DETERGENT,GENERAL	GL	1 GALLON		9.666		

AEROSOL PROPELLANT

RADIOACTIVITY	FORM	TR GP	NRC LIC NUMBER	CHEMICAL NAME	CHEMICAL FAMILY	FORMULA	SPECIFICATION
					DETERGENT	ALKYL ARYC	MIL-D-16791

* * * * * HAZARDOUS COMPONENTS * * * * *

NIOSH NO	CHEMICAL NAME	PCT	T L V
10000660T	DETERGENT		

* * * * * * TRANSPORTATION DATA * * * * * *

DOT SHIPPING NAME: N/A
CLASS: LABEL: MODE: ID NO: RQ:

WATER SHIPPING NAME: N/A
CLASS: LABEL: UN NO: UN CLASS: COM GP: DOT: IMCO

TARIFF 6-D SHIPPING:
CLASS: LABEL:

IATA SHIPPING NAME:
CLASS: LABEL: IATA ARTICLE NO:

AFR 71-4 SHIPPING NAME:
CLASS: LABEL: MMAC:

* * * * * * ADDITIONAL DATA * * * * * *

F12

N S N

7930-00-282-9699

ACT CD DATE PAGE NR

82259 2

**** HEALTH AND PHYSICAL PROPERTY DATA ****

BOILING POINT
372F 190 C

VAP DEN/AIR=1/
2.62

SOL IN H2O
COMPLETE

FLASH POINT
350 F 177 C

VAP PRESS/MM HG/70 F/

TLV-MIXTURE

STORAGE CODE

APPEARANCE AND ODOR
CLEAR LIQUID-S

LEL/PCT/

UEL/PCT/

SP GR
1.05

PCT VOLT BY VOL

EVAP RATE PER REFERENCE

EFFECTS OF OVEREXPOSURE

NET PROP WT-AMMO

MEW LB

STABLE
YES

CONDITIONS TO AVOID

MATERIALS TO AVOID

HAZ POLYMERIZATION OCCUR
NO

CONDITIONS TO AVOID

AUTO IGN TEMP

VISCOSITY

CG AMMO CD

HAZARDOUS DECOMPOSITION PRODUCTS

**** SAFETY STORAGE HANDLING AND FIRE FIGHTING PROCEDURES ****

EXTINGUISHING MEDIA

SPECIAL FIRE FIGHTING PROCEDURES

UNUSUAL FIRE / EXPLOSION HAZARDS

PROTECTIVE GLOVES
YES

EMERGENCY FIRST AID PROCEDURES

IF SWALLOWED INDUCE VOMITING CALL A DR. FOR EYES FLUSH WITH PLENTY OF WATER AND GET MEDICAL ATTENTION.

TYPE OF RESPIRATORY PROTECTION
N/A

VENTILATION

EYE PROTECTION
GOGGLES

OTHER PROTECTIVE EQUIPMENT

HANDLING / STORAGE PRECAUTIONS
NORMAL STORAGE & HANDLING

**** SPILL AND LEAK PROCEDURES ****

SPILL AND LEAK CONTROL
CLEAN AREA WITH WATER

WASTE ELIMINATION
FLUSH DOWN DRAIN WITH PLENTY OF WATER.

OTHER PRECAUTIONS

SUPPLEMENTAL DATA

GLC019 612

* * * HAZARDOUS ITEM BASIC PUBLICATION * * *

N S N	FSCM	MGR	F P IND	PN IND	PART NUMBER/TRADE NAME	ACT CD	DATE	PAGE NR
7930-00-282-9699	91341	GSA	G	A	FLOMO ION		85073	1

* * * * GENERAL INFORMATION * * * *

PROPRIETARY NO

MANUFACTURER: FORECHEM COMPANY

EMERGENCY TELE NO: 901-527-9520

ITEM NAME: DETERGENT GENERAL

UI	UI CONTAINER QTY	TYPE OF CONT	NET UNIT WT	MAG/MILGAUS	EXEMPTION NO
GL	1 GALLON				

AEROSOL PROPELLANT

SPECIFICATION: MIL-D-16791

RADIOACTIVITY | FORM | TR GP | NRC LIC NUMBER | CHEMICAL NAME: ALKYL PHENOL ETHOXYLATE | CHEMICAL FAMILY: NONIONIC SURFACTANT | FORMULA | CAS REG# 9016-45-9

* * * * * HAZARDOUS COMPONENTS * * * * *

NIOSH NO	CHEMICAL NAME	PCT	T L V
1000978NS	NON-IONIC SUFACTANT		

* * * * * * TRANSPORTATION DATA * * * * * *

DOT SHIPPING NAME: N/A

CLASS: LABEL: MODE: ID NO: RQ:

WATER SHIPPING NAME:

CLASS: LABEL: UN NO: UN CLASS: COM GP: DOT: IMCO

TARIFF 6-D SHIPPING:

CLASS: LABEL:

IATA SHIPPING NAME:

CLASS: LABEL: IATA ARTICLE NO:

AFR 71-4 SHIPPING NAME:

CLASS: LABEL: MMAC:

* * * * * * ADDITIONAL DATA * * * * * *

GLCQ19 I12

* * * HAZARDOUS ITEM BASIC PUBLICATION * * *

N S N	FSCM	MGR	F P IND	PN IND	PART NUMBER/TRADE NAME	ACT CD	DATE	PAGE NR
7930-00-282-9699	94341	GSA	G	A	9016-45-9-FLOMO ION		85128	1

* * * * GENERAL INFORMATION * * * *

PROPRIETARY NO

FORECHEM COMPANY

MANUFACTURER

EMERGENCY TELE NO
901-527-9520

DETERGENT

ITEM NAME

UI	UI CONTAINER QTY	TYPE OF CONT	NET UNIT WT	MAG/NILGAUS	EXEMPTION NO
GL	1 GALLON				

AEROSOL PROPELLANT

RADIOACTIVITY	FORM	TR GP	NRC LIC NUMBER	CHEMICAL NAME	CHEMICAL FAMILY	SPECIFICATION MIL-D-16791 FORMULA

* * * * * HAZARDOUS COMPONENTS * * * * *

NIOSH NO	CHEMICAL NAME	PCT	T L V
10000668T	DETERGENTS		

* * * * * * TRANSPORTATION DATA * * * * * *

DOT SHIPPING NAME: N/A

CLASS: LABEL: MODE: N/A ID NO: N/A RQ: NO

WATER SHIPPING NAME:

CLASS: LABEL: UN NO: UN CLASS: COM GP: DOT: IMCO

TARIFF 6-D SHIPPING:

CLASS: LABEL:

IATA SHIPPING NAME:

CLASS: LABEL: IATA ARTICLE NO:

AFR 71-4 SHIPPING NAME:

CLASS: LABEL: MMAC:

* * * * * * ADDITIONAL DATA * * * * * *

M12

M S H

7930-00-282-9699

ACT CD DATE PAGE NR

85073 2

*** * * * HEALTH AND PHYSICAL PROPERTY DATA * * * ***

BOILING POINT
300F,149C

VAP DEN/AIR=1/

SOL IN H2O
COMPLETELY

FLASH POINT
>200F, 93C TCC

VAP PRESS/MM HG/70 F/

TLV-MIXTURE
UNKNOWN

STORAGE CODE

APPEARANCE AND ODOR
VISCOUS YELLOW LIQUID - MILD ODOR

LEL/PCT/ UEL/PCT/ SP GR
1.059

PCT VOLT BY VOL
0

EVAP RATE PER REFERENCE

EFFECTS OF OVEREXPOSURE
MAY CAUSE SKIN IRRITATION.

NET PROP WT-AMMO NEW LB

STABLE
YES

CONDITIONS TO AVOID
NONE

MATERIALS TO AVOID

MAY POLYMERIZATION OCCUR
NO

CONDITIONS TO AVOID

AUTO IGN TEMP VISCOSITY CG AMMO CD

HAZARDOUS DECOMPOSITION PRODUCTS
NONE

*** * * * SAFETY STORAGE HANDLING AND FIRE FIGHTING PROCEDURES * * * ***

EXTINGUISHING MEDIA

SPECIAL FIRE FIGHTING PROCEDURES

UNUSUAL FIRE / EXPLOSION HAZARDS

PROTECTIVE GLOVES
YES

EMERGENCY FIRST AID PROCEDURES
SKIN-WASH WITH SOAP & WATER EYE CONT CI - FLUSH WITH WATER FOR 15 MIN.

TYPE OF RESPIRATORY PROTECTION

MECHANICAL

VENTILATION

EYE PROTECTION
YES

NONE

OTHER PROTECTIVE EQUIPMENT

HANDLING / STORAGE PRECAUTIONS
NORMAL

*** * * * SPILL AND LEAK PROCEDURES * * * ***

SPILL AND LEAK CONTROL
FLUSH AREA WITH HOT WATER.

WASTE ELIMINATION
ACCORDING TO FEDERAL STATE AND LOCAL REGULATIONS.

OTHER PRECAUTIONS
NONE

SUPPLEMENTAL DATA

J12

N S N

7930-00-282-9699

ACT CD DATE PAGE NR

85101 2

*** * * * HEALTH AND PHYSICAL PROPERTY DATA * * * ***

BOILING POINT
300F,149C

VAP DEN/AIR=1/

SOL IN H2O
DISPERSES

FLASH POINT
455F,235C COC

VAP PRESS/MM HG/70 F/

TLV-MIXTURE
UNKNOWN

STORAGE CODE

APPEARANCE AND ODOR
VISCOUS,YELLOW LIQUID - MILD ODOR

LEL/PCT/ UEL/PCT/

SP GR
1.059

PCT VOLT BY VOL
0

EVAP RATE PER REFERENCE

EFFECTS OF OVEREXPOSURE
MAY IRRITATE SKIN

NET PROP WT-AMMO NEW LB

STABLE
YES

CONDITIONS TO AVOID

MATERIALS TO AVOID

HAZ POLYMERIZATION OCCUR
NO

CONDITIONS TO AVOID

AUTO IGN TEMP VISCOSITY CG AMMO CD

HAZARDOUS DECOMPOSITION PRODUCTS

*** * * * SAFETY STORAGE HANDLING AND FIRE FIGHTING PROCEDURES * * * ***

EXTINGUISHING MEDIA

SPECIAL FIRE FIGHTING PROCEDURES

UNUSUAL FIRE / EXPLOSION HAZARDS

PROTECTIVE GLOVES
YES

EMERGENCY FIRST AID PROCEDURES
SKIN-WASH W SOAP & WATER. EYE-FLUSH W WATER FOR 15 MIN.

TYPE OF RESPIRATORY PROTECTION

MECHANICAL

VENTILATION

EYE PROTECTION
YES

NONE

OTHER PROTECTIVE EQUIPMENT

HANDLING / STORAGE PRECAUTIONS
NORMAL

*** * * * SPILL AND LEAK PROCEDURES * * * ***

SPILL AND LEAK CONTROL
FLUSH AREA W HOT WATER

WASTE ELIMINATION
ANY METHOD SUITABLE FOR DISPOSAL OF CHEMICAL WASTES SUBJECT TO FED, STATE & LOCAL REGS.

OTHER PRECAUTIONS
NONE

SUPPLEMENTAL DATA

NSN
6850-00-949-1397

• • • • HEALTH AND PHYSICAL PROPERTY DATA • • • •

85336

BOILING POINT	VAP DEN/AIR=1/	SOL IN H2O	FLASH POINT	VAP PRESS/MM HG/70 F/	TLV-MIXTURE	STORAGE CD
230F,110C	N/A	COMPLETE	NONE	N/A	UNKNOWN	C1

APPEARANCE AND ODOR	LEL/PCT/	UEL/PCT/	SP GR	PCT VOLT BY VOL	EVAP RATE PER REFERENCE
GREEN LIQUID/SWEET ACIDIC ODOR			1.22	73	1.2 WATER=1

NET PROP WT-AMMO NET EXP

EFFECTS OF OVEREXPOSURE
INHAL:INFLAM,IRRIT; SKIN/EYES:BURNS, INFLAM; INGEST:BURNS, INFLAM

STABLE	CONDITIONS TO AVOID	MATERIALS TO AVOID
YES	AVOID CONTACT W/ ALKALIES	AVOID STRONG ALKALI (E.G. NAOH, NH4OH,ETC.)

HAZ POLYMERIZATION OCCUR	CONDITIONS TO AVOID	AUTO IGN TEMP	VISCOSITY	CD AMMO
NO				

HAZARDOUS DECOMPOSITION PRODUCTS

• • • • SAFETY STORAGE HANDLING AND FIRE FIGHTING PROCEDURES • • • •

EXTINGUISHING MEDIA
NOT APPLICABLE

SPECIAL FIRE FIGHTING PROCEDURES
NOT APPLICABLE

UNUSUAL FIRE / EXPLOSION HAZARDS
KEEP OUT OF CONTACT WITH ALKALINE MATERIALS

PROTECTIVE GLOVES
RUBBER

EMERGENCY FIRST AID PROCEDURES
INHAL:REMOVE TO FRESH AIR. CONTACT:IMMED FLUSH EYES OR SKIN W/PLENTY OF WATER. INGEST:DO NOT INDUCE VOMITING. NOTHING BY MOUTH IF UNCONSC. GET MEDICAL ATTN. ANTIDOTE:MILK OF MAGNESIA W/MILK OR RAW EGG WHITES.

TYPE OF RESPIRATORY PROTECTION
NONE SHOULD BE NEEDED

VENTILATION
NORMAL ROOM VENTILATION.

EYE PROTECTION
FACE MASK

OTHER PROTECTIVE EQUIPMENT
NORMAL WORK CLOTHING COVERING ARMS & LEGS.

HANDLING / STORAGE PRECAUTIONS
STORE AWAY FROM ALKALIES IN A COOL
VENTILATED AREA.

• • • • SPILL AND LEAK PROCEDURES • • • •

SPILL AND LEAK CONTROL
SM AMT: FLUSH W/LG AMT WATER TO DRAIN. LG AMT: COVER W/SAND & NEUTRALIZE W/ SODA ASH.

WASTE ELIMINATION
DILUTE W/ LARGE AMOUNTS OF WATER AND FLUSH TO DRAIN IF IN ACCORDANCE WITH ALL LOCAL, STATE & FED REGULATIONS.

OTHER PRECAUTIONS
AVOID PROLONGED EXPOSURE TO SKIN.

SUPPLEMENTAL DATA
MSDS UNDATED

(4)

SPECS

NSN	FSCM	MGR	F P IND	PN IND	PART NUMBER/TRADE NAME	ACT CD	DATE	PAGE N
A 6850-00-281-1985	77410		D	A	AMSCO SOLV 1005,REGULAR MINERAL SPIRITS	A	86043	

. . . HAZARDOUS ITEM QUARTERLY CHANGES . . .

. . . . GENERAL INFORMATION . . . .

PROPRIETARY | MANUFACTURER | EMERGENCY TELE NO

ITEM NAME	UI	UI CONTAINER QTY	TYPE OF CONT	NET UNIT WT	MAG/MILGAUS	EXEMPTION
	GL	1.0 GL	CAN			

AEROSOL PROPELLANT | SPECIFICATION

RADIOACTIVITY	FORM	TR GP	NRC LIC NUMBER	CHEMICAL NAME	CHEMICAL FAMILY	FORMULA

. . . . . HAZARDOUS COMPONENTS . . . . .

NIOSH NO	CHEMICAL NAME	PCT	T L V

. . . . . TRANSPORTATION DATA . . . . . .

DOT SHIPPING NAME: N/A

CLASS: LABEL: MODE: ID NO: RQ:

WATER SHIPPING NAME: INFLAMMABLE LIQUIDS,N.O.S. (CONTAINING STODDARD SOLVENT)

CLASS: FLAMMABLE LIQUID LABEL: FLAMMABLE LIQUID UN NO: 1993 UN CLASS: 3-3 COM GP: DOT NO IMCO

TARIFF C-D SHIPPING: N/A REFER TO TITLE CFR 49

CLASS: LABEL:

IATA SHIPPING NAME: FLAMMABLE LIQUID N.O.S (CONTAINS STODDARD SOLVENT)

CLASS: FLAMMABLE LIQUID LABEL: FLAMMABLE LIQUID IATA ARTICLE NO 1993

AFR 71-4 SHIPPING NAME: N/A

CLASS: LABEL: MMAC:

. . . . . ADDITIONAL DATA . . . . . .

G18

NSN

6850-00-281-1985

ACT CD DATE PAGE NR

. . . . HEALTH AND PHYSICAL PROPERTY DATA . . . .

BOILING POINT VAP DEN/AIR=1/ SOL IN H2O FLASH POINT VAP PRESS/MM HG/70 F/ TLV-MIXTURE STORAGE CODE

APPEARANCE AND ODOR LEL/PCT/ UEL/PCT/ SP GR PCT VOLT BY VOL EVAP RATE PER REFERENCE

EFFECTS OF OVEREXPOSURE NET PROP WT-AMMO NET EXP WT

STABLE CONDITIONS TO AVOID MATERIALS TO AVOID

HAZ POLYMERIZATION OCCUR CONDITIONS TO AVOID AUTO IGN TEMP VISCOSITY CG AMMO CD

HAZARDOUS DECOMPOSITION PRODUCTS

. . . . SAFETY STORAGE HANDLING AND FIRE FIGHTING PROCEDURES

EXTINGUISHING MEDIA SPECIAL FIRE FIGHTING PROCEDURES

UNUSUAL FIRE / EXPLOSION HAZARDS PROTECTIVE GLOVES

EMERGENCY FIRST AID PROCEDURES

TYPE OF RESPIRATORY PROTECTION VENTILATION

EYE PROTECTION OTHER PROTECTIVE EQUIPMENT HANDLING / STORAGE PRECAUTIONS

. . . . SPILL AND LEAK PROCEDURES . .

SPILL AND LEAK CONTROL

WASTE ELIMINATION

OTHER PRECAUTIONS SUPPLEMENTAL DATA

GLC019 E15 * * * HAZARDOUS ITEM BASIC PUBLICATION * * *

M S N	FSCM	NGR	F P IND	PN IND	PART NUMBER/TRADE NAME	ACT CD	DATE	PAGE NR
2520-00-184-9452	31007		F	A	L201		84046	1

* * * * GENERAL INFORMATION * * * *

PROPRIETARY MANUFACTURER EMERGENCY TELE NO

ITEM NAME	UI	UI CONTAINER QTY	TYPE OF CONT	NET UNIT WT	MAG/MILGAUS	EXEMPTION NO
AEROSOL PROPELLANT						SPECIFICATION

RADIOACTIVITY	FORM	TR GP	NRC LIC NUMBER	CHEMICAL NAME	CHEMICAL FAMILY	FORMULA

* * * * * HAZARDOUS COMPONENTS * * * * *

MIXTURE NO	CHEMICAL NAME	PCT	T L V

* * * * * * TRANSPORTATION DATA * * * * * *

DOT SHIPPING NAME: MOTOR VEHICLE

CLASS: COMP-C LABEL: NONE MODE: ID NO: RQ:

WATER SHIPPING NAME: N/A

CLASS: LABEL: UN NO: UN CLASS: COM GP: DOT: YES IMCO NO

TARIFF 6-D SHIPPING: MOTOR VEHICLE

CLASS: COMP-C LABEL:

IATA SHIPPING NAME: VEHICLES,SELF PROPELLED

CLASS: MISCELLANEOUS DANGEROUS LABEL: NONE IATA ARTICLE NO: 8021

AFR 71-4 SHIPPING NAME: MOTOR VEHICLE

CLASS: FLAMMABLE LIQUID LABEL: NONE MMAC:

* * * * * * ADDITIONAL DATA * * * * * *

AFR 71-4 REF:FUELED,6-27;UNFUELD,6-28

41

GLC019 K 4 * * * HAZARDOUS ITEM BASIC PUBLICATION * * *

NSN	FSCM	MGR	F P IND	PN IND	PART NUMBER/TRADE NAME	ACT CD	DATE	PAGE NR
6850-01-108-5798	52790		D	A	BLAST OFF		81142	1

* * * * GENERAL INFORMATION * * * *

PROPRIETARY: YES

MANUFACTURER: ELSCO INTERNATIONAL

EMERGENCY TELE NO: (714) 444-8889

ITEM NAME	UI	UI CONTAINER QTY	TYPE OF CONT	NET UNIT WT	MAG/MILGAUS	EXEMPTION NO
CLEANING COMPOUND,GENERAL PURPOSE	QT	1 GAL				

AEROSOL PROPELLANT

SPECIFICATION

RADIOACTIVITY	FORM	TR CP	NRC LIC NUMBER	CHEMICAL NAME	CHEMICAL FAMILY	FORMULA
				CLEANING COMP & DEGREASER		

* * * * * HAZARDOUS COMPONENTS * * * * *

NIOSH NO	CHEMICAL NAME	PCT	T L V

* * * * * * TRANSPORTATION DATA * * * * * *

DOT SHIPPING NAME: N/A

CLASS: LABEL: MODE: ID NO: RQ:

WATER SHIPPING NAME: N/A

CLASS: LABEL: UN NO: UN CLASS: COM CP: DOT: IMCO

TARIFF 6-B SHIPPING: N/A

CLASS: LABEL:

IATA SHIPPING NAME: N/A

CLASS: LABEL: IATA ARTICLE NO:

AFR 71-4 SHIPPING NAME: N/A

CLASS: LABEL: MMAC:

* * * * * * ADDITIONAL DATA * * * * * *

ITEM NOT REGULATED FOR TRANSPORTATION

L A

N S N

6850-01-108-5798

ACT CD DATE PAGE NR

81142 2

* * * * HEALTH AND PHYSICAL PROPERTY DATA * * * *

BOILING POINT 211F

VAP DEN/AIR=1/

SOL IN H20 100%

FLASH POINT NONE

VAP PRESS/MM HG/70 F/

TLV-MIXTURE

STORAGE CODE L1

APPEARANCE AND ODOR
FORREST GREEN,SLIGHTLY ALKALING,PLEASANT

LEL/PCT/

UEL/PCT/

SP GR 1.070

PCT VOLT BY VOL 0

EVAP RATE PER REFERENCE 1.124,WATER=1

EFFECTS OF OVEREXPOSURE
EYES-SLIGHT IRRITATION.SKIN ABSORPTION POSSIBLE UNDER EXTREME HEAT

NET PROP WT-AMMO

NEW LB

STABLE YES

CONDITIONS TO AVOID

NONE

MATERIALS TO AVOID

HAZ POLYMERIZATION OCCUR NO

CONDITIONS TO AVOID

AUTO IGN TEMP

VISCOSITY

CG AMMO CD

HAZARDOUS DECOMPOSITION PRODUCTS
NONE

* * * * SAFETY STORAGE HANDLING AND FIRE FIGHTING PROCEDURES * * * *

EXTINGUISHING MEDIA
N/A

SPECIAL FIRE FIGHTING PROCEDURES
N/A

UNUSUAL FIRE / EXPLOSION HAZARDS
N/A

PROTECTIVE GLOVES
WATER PROOF

EMERGENCY FIRST AID PROCEDURES
EYES/SKIN-FLUSH WITH WATER.INGESTION-NEUTRALIZE BY DRINKING LOTS OF WATER OR WEAK ACID(LEMON/VINEGAR).CONCENTRATED SOLUTION I S ALKALINE

TYPE OF RESPIRATORY PROTECTION
NONE SPECIFIED BY MFR

VENTILATION
USE IN WELL VENTILATED AREA

EYE PROTECTION
GOGGLES WHEN SPRAYING

OTHER PROTECTIVE EQUIPMENT
RUBBER APRON RECOMMENDED IF PRODUCT IS BEING SPRAYED

HANDLING / STORAGE PRECAUTIONS
KEEP FROM EXTREME HEAT

* * * * SPILL AND LEAK PROCEDURES * * * *

SPILL AND LEAK CONTROL
ABSORB LARGE QUANTITIES WITH SUITABLE MATERIAL SUCH AS VERMICULITE-FLUSH RESIDUE WITH WATER.MATERIAL IS BIODEGRADABLE,CAN NEUTRALIZE WITH WATER & WEAK ACIDS

WASTE ELIMINATION
PLACE ABSORBED MATERIAL IN CONTAINERS SUITABLE FOR SHIPPING TO DISPOSAL AREA

OTHER PRECAUTIONS

SUPPLEMENTAL DATA

GLC019 A15 * * * HAZARDOUS ITEM BASIC PUBLICATION * * *

N S N	FSCM	MGR	F P IND	PN IND	PART NUMBER/TRADE NAME	ACT CD	DATE	PAGE N
7920-00-823-9818	90967	GSA	G	A	NEVR-DULL		84192	

*** * * * GENERAL INFORMATION * * * ***

PROPRIETARY NO

MANUFACTURER: GEO. BASCH CO. INC.

EMERGENCY TELE NO: 516-378-8100

ITEM NAME	UI CN	UI CONTAINER QTY	TYPE OF CONT	NET UNIT WT	MAG/MILGAUS	EXEMPTION
PAD, METAL POLISH		2 LB	CAN			

AEROSOL PROPELLANT

SPECIFICATION: MIL-I-22590

RADIOACTIVITY	FORM	TR CP	NRC LIC NUMBER	CHEMICAL NAME	CHEMICAL FAMILY	FORMULA
				IMPREGNATED WADDING	METAL POLISH	

*** * * * * HAZARDOUS COMPONENTS * * * * ***

NIOSH NO	CHEMICAL NAME	PCT	T L V
PY8240000	MINERAL SPIRITS.		

*** * * * * * TRANSPORTATION DATA * * * * * ***

DOT SHIPPING NAME: N/A

CLASS: LABEL: MODE: ID NO: RQ:

WATER SHIPPING NAME:

CLASS: LABEL: UN NO: UN CLASS: CON GP: DOT: INCO

TARIFF 6-9 SHIPPING:

CLASS: LABEL:

IATA SHIPPING NAME:

CLASS: LABEL: IATA ARTICLE NO:

AFR 71-4 SHIPPING NAME:

CLASS: LABEL: MMAC:

*** * * * * * ADDITIONAL DATA * * * * * ***

815

N S N

7920-00-823-9818

ACT CD DATE PAGE 1

84192

* * * * HEALTH AND PHYSICAL PROPERTY DATA * * * *

BOILING POINT N/A | VAP DEN/AIR=1/ | SOL IN H2O | FLASH POINT >140F 0C>60C 0 | VAP PRESS/MM HG/70 F/ | TLV-MIXTURE | STORAGE

APPEARANCE AND ODOR
IMPREGNATED METAL POLISH-COTTON WADDING.

LEL/PCT/ | UEL/PCT/ | SP GR | PCT VOLT BY VOL | EVAP RATE PER REFERENCE

EFFECTS OF OVEREXPOSURE
SLIGHTLY TOXIC-NO ADVERSE EFFECT ON PERSONNEL.CONTINU CONTCT W/SKIN WILL CAUSE SLIGHT IRRITATION.

MET PROP WT-AMMO | NEW

STABLE
N/A

CONDITIONS TO AVOID

MATERIALS TO AVOID

HAZ POLYMERIZATION OCCUR
NO

CONDITIONS TO AVOID

AUTO IGN TEMP | VISCOSITY | CG AMM

HAZARDOUS DECOMPOSITION PRODUCTS

* * * * SAFETY STORAGE HANDLING AND FIRE FIGHTING PROCEDURES * * * *

EXTINGUISHING MEDIA
BURNS SAME AS NEWSPAPER,EXINGUISHES SAME WAY.

SPECIAL FIRE FIGHTING PROCEDURES
KEEP AWAY FROM OPEN FLAME.

UNUSUAL FIRE / EXPLOSION HAZARDS
BURNS SAME AS NEWSPAPER.

PROTECTIVE GLOVES
IF DESIRED

EMERGENCY FIRST AID PROCEDURES
USE GLOVES OR WASH HANDS AFTER USING.

TYPE OF RESPIRATORY PROTECTION

VENTILATION
IF DESIRED BUT NOT NECESSARY

EYE PROTECTION

OTHER PROTECTIVE EQUIPMENT

HANDLING / STORAGE PRECAUTIONS
KEEP AWAY FROM OPEN FLAME.

* * * * SPILL AND LEAK PROCEDURES * * * *

SPILL AND LEAK CONTROL
N/A

WASTE ELIMINATION

OTHER PRECAUTIONS

SUPPLEMENTAL DATA

AGE NR
2
AGE CODE
ENCE
NEW LB
AMND CD
ONS
OR AMD

9

GLC019 H18 * * * HAZARDOUS ITEM BASIC PUBLICATION * * *

N S N	FSCM	MGR	F P IND	PN IND	PART NUMBER/TRADE NAME	ACT CD	DATE	PAGE
7930-00-045-6912	60672	GSA	G	A	WAX AWAY		85107	

* * * * GENERAL INFORMATION * * * *

PROPRIETARY NO

MANUFACTURER: MAGNAFLUX SURFACC CONDITIONERS INC.

EMERGENCY TELE NO

ITEM NAME: FLOOR WAX REMOVER

UI CN	UI CONTAINER QTY	TYPE OF CONT	NET UNIT WT	MAG/MILGAUS	EXEMPTION
	5-GALLON	CAN			

AEROSOL PROPELLANT

SPECIFICATION: P-R-1760

RADIOACTIVITY	FORM	TR GP	NRC LIC NUMBER	CHEMICAL NAME	CHEMICAL FAMILY	FORMULA

* * * * * HAZARDOUS COMPONENTS * * * * *

NIOSH NO	CHEMICAL NAME	PCT	T L V

* * * * * * TRANSPORTATION DATA * * * * * *

DOT SHIPPING NAME: N/A

CLASS: LABEL: MODE: ID NO: RQ:

WATER SHIPPING NAME:

CLASS: LABEL: UN NO: UN CLASS: COM GP: DOT: IMCO

TARIFF 6-D SHIPPING:

CLASS: LABEL:

IATA SHIPPING NAME:

CLASS: LABEL: IATA ARTICLE NO:

AFR 71-4 SHIPPING NAME:

CLASS: LABEL: MMAC:

* * * * * * ADDITIONAL DATA * * * * * *

NSN 7930-00-045-6912

ACT CD 85100 DATE PAGE NR 2

*** * * * HEALTH AND PHYSICAL PROPERTY DATA * * * ***

BOILING POINT	VAP DEN/AIR=1/	SOL IN H2O	FLASH POINT	VAP PRESS/MM HG/70 F/	TLV-MIXTURE	STORAGE CODE
220F, 105C		COMPLETE	NONE			

APPEARANCE AND ODOR
CLEAR LIQUID;MILD SOLVENT ODOR

LEL/PCT/ UEL/PCT/ SP GR 1.0 PCT VOLT BY VOL EVAP RATE PER REFERENCE

EFFECTS OF OVEREXPOSURE

NET PROP WT-AMMO NEW LB

STABLE
YES

CONDITIONS TO AVOID

MATERIALS TO AVOID

HAZ POLYMERIZATION OCCUR
NO

CONDITIONS TO AVOID

AUTO IGN TEMP VISCOSITY CG AMMO CD

HAZARDOUS DECOMPOSITION PRODUCTS

*** * * * SAFETY STORAGE HANDLING AND FIRE FIGHTING PROCEDURES * * * ***

EXTINGUISHING MEDIA

SPECIAL FIRE FIGHTING PROCEDURES

UNUSUAL FIRE / EXPLOSION HAZARDS

PROTECTIVE GLOVES
RUBBER, POLY

EMERGENCY FIRST AID PROCEDURES
IN CASE OF SKIN OR EYE CONTACT, FLUSH WELL WITH WATER. SEE PHYSICIAN FOR EYES

TYPE OF RESPIRATORY PROTECTION

VENTILATION

EYE PROTECTION
GLASSES

OTHER PROTECTIVE EQUIPMENT

HANDLING / STORAGE PRECAUTIONS

*** * * * SPILL AND LEAK PROCEDURES * * * ***

SPILL AND LEAK CONTROL
FLUSH TO DRAIN WITH WATER

WASTE ELIMINATION
FOLLOW LOCAL POLLUTION STANDARDS.

OTHER PRECAUTIONS

SUPPLEMENTAL DATA

GLC019 F 1

* * * HAZARDOUS ITEM BASIC PUBLICATION * * *

N S N	FSCM	MGR	F P IND	PN IND	PART NUMBER/TRADE NAME	ACT CD	DATE	PAGE NR
7930-00-141-5488	03256	GSA	G	A	SAF-T-POL II		85088	1

* * * * GENERAL INFORMATION * * * *

PROPRIETARY NO

MANUFACTURER
MASURY-COLUMBIA COMPANY

EMERGENCY TELE NO
312-345-9202

MAX, FLOOR	ITEM NAME	UI CN	UI CONTAINER QTY 5-GAL	TYPE OF CONT CN	NET UNIT WT	MAG/MILGAUS	EXEMPTION
	AEROSOL PROPELLANT						SPECIFICATION P-W-155

RADIOACTIVITY	FORM	TR GP	NRC LIC NUMBER	CHEMICAL NAME	CHEMICAL FAMILY	FORMULA
				BUFFABLE EMULSION FLOOR F	WATER-EMULSION FLOOR FINI	

* * * * * HAZARDOUS COMPONENTS * * * * *

NIOSH NO	CHEMICAL NAME	PCT	T L V

* * * * * * TRANSPORTATION DATA * * * * * *

DOT SHIPPING NAME: N/A

CLASS: LABEL: MODE: ID NO: RQ:

WATER SHIPPING NAME:

CLASS: LABEL: UN NO: UN CLASS: COM GP: DOT: IMCO

TARIFF 6-D SHIPPING:

CLASS: LABEL:

IATA SHIPPING NAME:

CLASS: LABEL: IATA ARTICLE NO:

AFR 71-4 SHIPPING NAME:

CLASS: LABEL: MMAC:

* * * * * * ADDITIONAL DATA * * * * * *

6 1

NSN	ACT CD	DATE	PAGE NR
7930-00-141-5888		81092	2

*** * * * HEALTH AND PHYSICAL PROPERTY DATA * * * ***

BOILING POINT	VAP DEN/AIR=1/	SOL IN H2O	FLASH POINT	VAP PRESS/MM HG/70 F/	TLV-MIXTURE	STORAGE COD
190F,87.8C		COMPLETE	NONE	20		

APPEARANCE AND ODOR
TAN,OPAQUE,MILKY EMULSION; BLAND ODOR

LEL/PCT/	UEL/PCT/	SP GR	PCT VOLT BY VOL	EVAP RATE PER REFERENCE
		1.0		

EFFECTS OF OVEREXPOSURE
IRRITATES EYES;NAUSEA IF SWALLOWED

NET PROP WT-AMMO | NEW LB

STABLE
YES

CONDITIONS TO AVOID

MATERIALS TO AVOID

HAZ POLYMERIZATION OCCUR
NO

CONDITIONS TO AVOID

AUTO IGN TEMP | VISCOSITY | CG AMMO C

HAZARDOUS DECOMPOSITION PRODUCTS

*** * * * SAFETY STORAGE HANDLING AND FIRE FIGHTING PROCEDURES * * * ***

EXTINGUISHING MEDIA

SPECIAL FIRE FIGHTING PROCEDURES

UNUSUAL FIRE / EXPLOSION HAZARDS

PROTECTIVE GLOVES

EMERGENCY FIRST AID PROCEDURES
WASH EYES WITH WATER;WAS OFF SKIN IF SWALLOWED, GIVE MILK OR WATER;CALL DOCTOR

TYPE OF RESPIRATORY PROTECTION

PROPER VENTILATION

VENTILATION

EYE PROTECTION

OTHER PROTECTIVE EQUIPMENT

HANDLING / STORAGE PRECAUTIONS
LOW 125F

DO NOT FREEZE;STORE AT TEMPERATURES BI

*** * * * SPILL AND LEAK PROCEDURES * * * ***

SPILL AND LEAK CONTROL
DILUTE WITH WATER; USE WET VACUUM,RINSE

WASTE ELIMINATION
APPROVED LANDFILL

OTHER PRECAUTIONS

SUPPLEMENTAL DATA

GLC019 N 1

* * * HAZARDOUS ITEM BASIC PUBLICATION * * *

NSN	FSCM	MGR	F P IND	PN IND	PART NUMBER/TRADE NAME	ACT CD	DATE	PAGE NR
A 7930-00-141-5888	2H830	N	A		8131 FORMULA	A	85228	1

* * * * GENERAL INFORMATION * * * *

PROPRIETARY NO

MANUFACTURER
CENTER FOR THE BLIND

EMERGENCY TELE NO
215-386-2333

ITEM NAME	UI	UI CONTAINER QTY	TYPE OF CONT	NET UNIT WT	MAG/MILGAUS	EXEMPTION NO
WAX, FLOOR, WATER EMULSION TYPE						

AEROSOL PROPELLANT

SPECIFICATION
P-W-155

RADIOACTIVITY	FORM	TR GP	NRC LIC NUMBER	CHEMICAL NAME	CHEMICAL FAMILY	FORMULA

* * * * * HAZARDOUS COMPONENTS * * * * *

NIOSH NO	CHEMICAL NAME	PCT	T L V
1000076MX	WAX	UNK	
ZC8110000	WATER	UNK	

* * * * * * TRANSPORTATION DATA * * * * * *

DOT SHIPPING NAME: N/A
CLASS: LABEL: MODE: ID NO: RQ:

WATER SHIPPING NAME: N/A
CLASS: LABEL: UN NO: UN CLASS: COM GP: DOT: IMCO

TARIFF 6-D SHIPPING: N/A
CLASS: LABEL:

IATA SHIPPING NAME: N/A
CLASS: LABEL: IATA ARTICLE NO:

AFR 71-4 SHIPPING NAME: N/A
CLASS: LABEL: MMAC:

* * * * * * ADDITIONAL DATA * * * * * *

NOT REGULATED FOR SHIPPING.

I 1

N S N

7930-00-141-5888

ACT CD DATE PAGE NR

A 84264 2

* * * * HEALTH AND PHYSICAL PROPERTY DATA * * * *

BOILING POINT
208F; 98C

VAP DEN/AIR=1/

SOL IN H2O
COMPLETE

FLASH POINT
N/A

VAP PRESS/MM HG/70 F/

TLV-MIXTURE

STORAGE CODE

APPEARANCE AND ODOR
TRANSLUCENT OFFWHITE, LT AMMONIA ODOR

LEL/PCT/

UEL/PCT/

SP GR
0.998

PCT VOLT BY VOL
19

EVAP RATE PER REFERENCE
N/A

EFFECTS OF OVEREXPOSURE
NOT APPLICABLE

NET PROP WT-AMMO

NEW LB

STABLE
YES

CONDITIONS TO AVOID
NOT APPLICABLE

MATERIALS TO AVOID

HAZ POLYMERIZATION OCCUR
NO

CONDITIONS TO AVOID

AUTO IGN TEMP

VISCOSITY

CG AMMO CD

HAZARDOUS DECOMPOSITION PRODUCTS
NOT APPLICABLE

* * * * SAFETY STORAGE HANDLING AND FIRE FIGHTING PROCEDURES * * * *

EXTINGUISHING MEDIA
NOT APPLICABLE

SPECIAL FIRE FIGHTING PROCEDURES
NOT APPLICABLE

UNUSUAL FIRE / EXPLOSION HAZARDS
NOT APPLICABLE

PROTECTIVE GLOVES

EMERGENCY FIRST AID PROCEDURES
NOT APPLICABLE

TYPE OF RESPIRATORY PROTECTION
MANUFACTURER STATES N/A

VENTILATION
NOT APPLICABLE

EYE PROTECTION
NOT APPLICABLE

OTHER PROTECTIVE EQUIPMENT

HANDLING / STORAGE PRECAUTIONS
NOT APPLICABLE

* * * * SPILL AND LEAK PROCEDURES * * * *

SPILL AND LEAK CONTROL
FLUSH WITH WATER

WASTE ELIMINATION
MANUFACTURER RECOMMENDS FLUSHING WITH WATER. DISPOSAL METHODS MUST BE IAW FEDERAL, STATE & LOCAL REGULATIONS.

OTHER PRECAUTIONS

SUPPLEMENTAL DATA
MFR IS OUT OF BUSINESS. CONTAINER; 5 GAL

GLC019 J 1 * * * HAZARDOUS ITEM BASIC PUBLICATION * * *

N S N	FSCM	NCR	F P IND	PN IND	PART NUMBER/TRADE NAME	ACT CD	DATE	PAGE NR
7930-00-141-5888	33338		N	A	SCUFF BAR WAX (NFR CODE 1316) P-W-155		83017	1

* * * * GENERAL INFORMATION * * * *

PROPRIETARY: YES

MANUFACTURER: BARRIER INDUSTRIES

EMERGENCY TELE NO: (914) 856-6633

ITEM NAME	UI	UI CONTAINER QTY	TYPE OF CONT	NET UNIT WT	MAG/MILGAUS	EXEMPTION NO
AEROSOL PROPELLANT						

SPECIFICATION: P-W-155

RADIOACTIVITY	FORM	TR GP	NRC LIC NUMBER	CHEMICAL NAME	CHEMICAL FAMILY	FORMULA
			N/A			

* * * * * HAZARDOUS COMPONENTS * * * * *

NIOSH NO	CHEMICAL NAME	PCT	T L V

* * * * * * TRANSPORTATION DATA * * * * * *

DOT SHIPPING NAME: N/A

CLASS: LABEL: MODE: ID NO: RQ:

WATER SHIPPING NAME: N/A

CLASS: LABEL: UN NO: UN CLASS: COM GP: INCO

TARIFF 6-D SHIPPING: N/A

CLASS: LABEL:

IATA SHIPPING NAME: N/A

CLASS: LABEL: IATA ARTICLE NO:

AFR 71-4 SHIPPING NAME: N/A

CLASS: LABEL: MMAC:

* * * * * * ADDITIONAL DATA * * * * * *

NOT REGULATED FOR SHIPPING.

K 1

N S N

7930-00-141-5888

ACT CD DATE 83118 PAGE NR 2

* * * * HEALTH AND PHYSICAL PROPERTY DATA * * * *

BOILING POINT 212F | VAP DEN/AIR=1/ | SOL IN H2O COMPLETE | FLASH POINT NONE | VAP PRESS/MM HG/70 F/ | TLV-MIXTURE | STORAGE CODE

APPEARANCE AND ODOR
LIGHT TAN LIQUID,LOW VISCOSITY,MILD ODOR

LEL/PCT/ | UEL/PCT/ | SP GR 1.00 | PCT VOLT BY VOL 83.5 | EVAP RATE PER REFERENCE

EFFECTS OF OVEREXPOSURE
NOT TESTED(MFR).MFR STATES IMMERSION OF SKIN INTO PRODUCT WILL BE HARMLESS TO MOST PEOPLE.

NET PROP WT-AMMO N/A | NEW LB

STABLE
YES

CONDITIONS TO AVOID

MATERIALS TO AVOID
STRONG OXIDIZING OR REDUCING AGENTS

HAZ POLYMERIZATION OCCUR
NO

CONDITIONS TO AVOID

AUTO IGN TEMP | VISCOSITY | CG AMMO CD

HAZARDOUS DECOMPOSITION PRODUCTS
NONE(MFR)

* * * * SAFETY STORAGE HANDLING AND FIRE FIGHTING PROCEDURES * * * *

EXTINGUISHING MEDIA
N/A

SPECIAL FIRE FIGHTING PROCEDURES
NONE

UNUSUAL FIRE / EXPLOSION HAZARDS

PROTECTIVE GLOVES

EMERGENCY FIRST AID PROCEDURES
WASH EXPOSED AREAS OF SKIN. IMMEDIATELY FLUSH EYES W/WATER AT LEAST 15 MIN.

TYPE OF RESPIRATORY PROTECTION

VENTILATION
LOCAL EXHAUST-PREFERRED.MECHANICAL-ACCEPTABLE

EYE PROTECTION
SFTY GLASSES W/SPLSH SHLD

OTHER PROTECTIVE EQUIPMENT

HANDLING / STORAGE PRECAUTIONS

* * * * SPILL AND LEAK PROCEDURES * * * *

SPILL AND LEAK CONTROL
MOP UP WEAR SAFETY GLASSES

WASTE ELIMINATION
DISPOSE IAW LOCAL,STATE, & FEDERAL REGS.

OTHER PRECAUTIONS

SUPPLEMENTAL DATA

29 CFR PART 1910.120
FINAL RULE

Hazardous Waste Operations and Emergency Response: Final Rule

HAZWOP

The Superfund Amendment Re-authorization Act, OSHA Section 1910.120, stipulates certain training requirements for employees of RCRA sites. The following is a series of excerpts, specific to the training requirements, taken from OSHA's final rule, dated Monday, March 6, 1989.

TRAINING PROGRAM

New Employees

The employer shall develop and implement a training program, which is part of the employer's safety and health program, for employees involved with hazardous waste operations to enable employees to perform their assigned duties and functions in a safe and healthful manner so as not to endanger themselves or other employees. The initial training shall be for 24 hours, and refresher training shall be for eight hours annually. Employees who have received the initial training required by this paragraph shall be given a written certificate attesting that they have successfully completed the necessary training.

Current Employees

Employers who can show by an employee's previous work experience and/or training that the employee has had training equivalent to the initial training required by this paragraph shall be considered as meeting the initial training requirements of this paragraph as to that employee. Equivalent training includes the training that existing employees might have already received from actual site work experience. Current employees shall receive eight hours of refresher training annually.

Trainers

Trainers who teach initial training shall have satisfactorily completed a training course for teaching the subjects they are expected to teach or they shall have the academic credentials and instruction experience necessary to demonstrate a good command of the subject matter of the courses and competent instructional skills.

TRAINING

Specialist Employees

Employees who, in the course of their regular job duties, work with and are trained in the hazards of specific hazardous substances, and who will be called upon to provide technical advice or assistance at a hazardous substance release incident to the individual in charge, shall receive training or demonstrate competency in the area of their specialization.

First Responder Awareness Level

First responders at the awareness level are individuals who are likely to witness or discover a hazardous substance release and who have been trained to initiate an emergency response sequence by notifying the proper authorities of the release. They would take no further action beyond notifying the authorities of the release. First responders at the awareness level shall have sufficient experience to objectively demonstrated competency in the following areas:

- An understanding of what hazardous materials are, and the risks associated with them in an incident.
- An understanding of the potential outcomes associated with an emergency created when hazardous materials are present.
- The ability to recognize the presence of hazardous materials in an emergency.
- The ability to identify the hazardous materials, if possible.
- An understanding of the role of the first responder awareness individual in the employer's emergency response plan, including site security and control and the US Department of Transportation's Emergency Response Guidebook.
- The ability to realize the need for additional resources, and to make appropriate notifications to the communication center.

First Responder Operations Level

First responders at the operations level are individuals who respond to releases or potential releases of hazardous substances as part of the initial response to the site for the purpose of protecting nearby persons, property, or the environment from the effects of the release. They are trained to respond in a defensive fashion without actually trying to stop the release. Their function is to contain the release from a safe distance, keep it from spreading, and prevent exposures. First responders at the operational level shall have received at least eight hours of training or have suffi-

cient experience to objectively demonstrate competency in the following areas in addition to those listed for the awareness level and the employer shall so certify:

- Knowledge of the basic hazard and risk assessment techniques.
- Know how to select and use proper personal protective equipment provided to the first responder operational level.
- An understanding of basic hazardous materials terms.
- Know how to perform basic control, containment, and/or confinement operations within the capabilities of the resources and personal protective equipment available with their unit.
- Know how to implement basic decontamination procedures.
- An understanding of the relevant standard operating procedures and termination procedures.

Hazardous Materials Technician

Hazardous materials technicians are individuals who respond to releases or potential releases for the purpose of stopping the release. They assume a more aggressive role than a first responder at the operations level in that they will approach the point of release of a hazardous substance. Hazardous materials technicians shall have received at least 24 hours of training equal to the first responder operation level, and in addition, have competency in the following areas, and the employer shall so certify:

- Know how to implement the employer's emergency response plan.
- Know the classification, identification, and verification of known and unknown materials by using field survey instruments and equipment.
- Be able to function within an assigned role in the Incident Command System.
- Know how to select and use proper specialized chemical personal protective equipment provided to the hazardous materials technician.
- Understand hazard and risk assessment techniques.
- Be able to perform specialized control, containment, and/or confinement operations within the capabilities of the resources and personal protective equipment available.

- Understand and implement decontamination procedures.
- Understand termination procedures.
- Understand basic chemical and toxicological terminology and behavior.

Hazardous Materials Specialist

Hazardous materials specialists are individuals who respond with and provide support to hazardous materials technicians. Their duties parallel those of the hazardous materials technician, however, those duties require a more directed or specific knowledge of the various substances they may be called upon to contain. The hazardous materials specialist would also act as the site liaison with Federal, state, local and other government authorities in regards to site activities. Hazardous materials specialists shall have received at least 24 hours of training equal to the technician level and in addition have competency in the following areas and the employer shall so certify:

- Know how to implement the local emergency response plan.
- Understand classification, identification, and verification of known and unknown materials by using advanced survey instruments and equipment.
- Know of the state emergency response plan.
- Be able to select and use proper specialized chemical personal protective equipment provided to the hazardous materials specialist.
- Understand in-depth hazard and risk techniques.
- Be able to perform specialized control, containment, and/or confinement operations within the capabilities of the resources and personal protective equipment available.
- Be able to determine and implement decontamination procedures.
- Have the ability to develop a site safety and control plan.
- Understand chemical, radiological and toxicological terminology and behavior.

On Scene Incident Commander

Incident commanders, who will assume control of the incident scene beyond the first responder awareness level, shall receive at least 24 hours of training equal to the first responder operations level and in addition have competency in the following areas and the employer shall so certify:

- Know and be able to implement the employer's incident command system.
- Know how to implement the employer's emergency response plan.
- Know and understand the hazards and risks associated with employees working in chemical protective clothing.
- Know how to implement the local emergency response plan.
- Know of the state emergency response plan and of the Federal Regional Response Team.
- Know and understand the importance of decontamination procedures.

Post-Emergency Response Operations

Upon completion of the emergency response, if it is determined that it is necessary to remove hazardous substances, health hazards, and materials contaminated with them (such as contaminated soil or other elements of the natural environment) from the site of the incident, the employer shall comply with one of the following:

- Meet all of the requirements of paragraphs (b) through (o); or
- Where the clean-up is done on plant property using plant or workplace employees, such employees shall have completed the training requirements of the following: 29 CFR 1910.38(a); 1910.134; 1910.1200, and other appropriate safety and health training made necessary by the tasks that they are expected to be performed such as personal protective equipment and decontamination procedures. All equipment to be used in the performance of the clean-up work shall be in serviceable condition and shall have been inspected prior to use.

MANAGEMENT'S RESPONSIBILITIES

Worker Right-to Know Laws

Both State, and recently enacted Federal Standards, require company officials and representatives to inform workers of the health and environmental hazards associated with any chemical they are handling, be it a pure product or a waste.

Safety Rule Enforcement

It is the responsibility of company officials and representatives to not only inform workers of safety rules, but also to insure that the workers comply with those rules.

Material Safety Data Sheets

In conjunction with the recent Hazard Communication Standards, Materials Safety Data Sheets (MSDSs) must be made readily available to workers, and by 1988, MSDSs must also be made available to the public.

Spill Contingency Plan

It is the responsibility of Company officials to provide a Spill Contingency Plan and to adequately inform workers of its content. Workers must be able to adequately respond to a hazardous substance spill, to protect themselves, fellow workers, and the environment. It is also the responsibility of company officials to notify local hospitals, fire departments, and emergency squads as to the hazards posed at company worksites.

Employee Training

Specific Federal and State Regulations require annual Training in hazardous waste management. New employees require training within six months of employment. Documentation of training is required.

Under the Superfund Amendment Re-Authorization Act of 1986, generating facilities must provide training to "Emergency Response" personnel, such as fire department, fire brigade, emergency medical service and HAZMAT team. The training sessions and drills must total 24 hours annually, and is designed to instruct employees in the proper procedures and precautions to follow when responding to a hazardous substance emergency incident.

Reports and Recordkeeping

State and Federal Regulations require reports and records be kept or sent on a regular basis.

Notification of Spills

State and federal Regulations require notification to the National Response Center and State Officials under certain spill conditions, such as when R.Q. Substances enter the environment.

SARA

The Superfund Amendment Re-Authorization Act: Title III, Subtitle B (Emergency Planning and Community Right-to Know) requires affected industries to play an active role in local emergency planning committees developing emergency response plans. Facilities must also provide information on the manufacture, use, and storage of chemicals present at their facility to the State Commission, local committees, and local fire departments, and it must be made available for the general public.

Table 1. Training Requirements

Hazardous Waste Clean-Up Sites

Staff	
• Routine site employees	40 hours initial 24 hours field 8 hours annual refresher
• Routine site employees (minimal exposure)	24 hours initial 8 hours field 8 hours annual refresher
• Non-routine site employees	24 hours initial 8 hours field 8 hours annual refresher
Supervisor/Managers of	
• Routine site employees	40 hours initial 24 hours field 8 hours hazardous waste management 8 hours annual refresher
• Routine site employees (minimal exposure)	24 hours initial 8 hours field 8 hours hazardous waste management 8 hours annual refresher
• Non-routine site employees	24 hours initial 8 hours field 8 hours hazardous waste management 8 hours annual refresher

Treatment, Storage, and Disposal Sites

Staff	
• General Site employees	24 hours initial or equivalent 8 hours annual refresher
• Emergency response personnel	Trained to a level of competency Annual refresher

Note: See 29 CFR 1910.120 (e) and (p)(7).

Table 2. Training Requirements

Other Emergency Response Staff

Level 1 - First responder (awareness) level[1]	Sufficient training or proven experience in specific competencies Annual refresher
Level 2 - First responder (operations level)[2]	Level 1 competency and 8 hours initial or proven experience in specific competencies Annual refresher
Level 3 - HAZMAT technician[3]	24 hours of Level 2 and proven experience in specific competencies Annual refresher
Level 4 - HAZMAT specialist[4]	24 hours of Level 3 and proven experience in specific competencies Annual refresher
Level 5 - On-the-scene incident commander[5]	24 hours of Level 1 and additional competencies Annual refresher

Note: See 29 CFR 1910 120 (q) (6).

[1] *Witnesses or discovers* a release of hazardous materials and who are trained to notify the proper authorities.

2 *Responds* to releases of hazardous substances in a defensive manner, without trying to stop the releases.

[3] Responds aggressively to stop the release of hazardous substances.

[4] Responds with and in support to HAZMAT technicians, but who have specific knowledge of various hazardous substances.

[5] Assumes control of the incident scene beyond the first-responder awareness level.

ILSCO

Electrical Connectors
COPPER · ALUMINUM

4730 MADISON ROAD · CINCINNATI, OHIO 45227
TELEPHONE 871-4000 AREA CODE 513

February 9, 1988

To Whom It May Concern:

Enclosed is a copy of our revised MATERIAL SAFETY DATA SHEET R-782-1 for De-Ox.

Please destroy copies you might already have in file for this product as they are outdated.

If you have any questions, please do not hesitate to contact me.

Very truly yours,

ILSCO

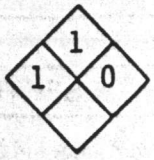
E. J. Schutte

Edward J. Schutte
Manager, Product Engineering

EJS/mah
Enclosure

MATERIAL SAFETY DATA SHEET

NFPA 704 DESIGNATION



MSDS Number R-782-1

Date Prepared: Dec. 11, 198

SECTION I

MANUFACTURER'S NAME	EMERGENCY TELEPHONE NO
Ilsco	Chemtrec - 800-424-9300 Ilsco - 513-871-4000
ADDRESS (NUMBER, STREET, CITY, STATE, AND ZIP CODE)	
4730 Madison Road; Cincinnati, Ohio 45227	
CHEMICAL NAME AND SYNONYMS: Lubricating Grease	TRADE NAME AND SYNONYMS: De-Ox Anti-Oxident
CHEMICAL FAMILY: Hydro Carbon	FORMULA: Proprietary Formula
CAS: Pet. Dist. 64742-54-7	COMMON NAME: Mineral Oil

SECTION II — HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS			BASE METAL		
CATALYST			ALLOYS		
VEHICLE			METALLIC COATINGS		
SOLVENTS Mineral Oil	90	5 MG/M³ AS Mist	FILLER METAL PLUS COATING OR CORE FLUX		
ADDITIVES			OTHERS		
OTHERS					

HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES	%	TLV (Units)
Other Components/Not Hazardous Under OSHA Hazardous	10	N.A.
Communication		

SECTION III — PHYSICAL DATA

BOILING POINT (°F)	N.A.	SPECIFIC GRAVITY (H_2O = 1)	.95
VAPOR PRESSURE (mm Hg)	N.A.	PERCENT VOLATILE BY VOLUME (%)	N.A.
VAPOR DENSITY (AIR = 1)	N.A.	EVAPORATION RATE (_____ = 1)	N.A.
SOLUBILITY IN WATER	Insoluble		

APPEARANCE AND ODOR: Dark Green Grease with Mineral Oil Odor

SECTION IV — FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (METHOD USED)	FLAMMABLE LIMITS	LEL	UEL
>450°F (COC)		Not Known	Not Known

EXTINGUISHING MEDIA: Dry Chemical, Carbon Dioxide, Water Fog or Foam

SPECIAL FIRE FIGHTING PROCEDURES: Fire Fighters should wear respiratory protection (positive pressure if available).

UNUSUAL FIRE AND EXPLOSION HAZARDS: Combustion in dense smoke, fumes and carbon monoxide.

(Continued on reverse side)

CHEMICAL NAME AND SYNONYMS	TRADE NAME AND SYNONYMS
Hydro Carbon	Ilsco De-Ox

SECTION V — HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE: 5 MG/M^3 As Mist

EFFECTS OF OVEREXPOSURE:
1. Acute Overexposure - Skin or Eye Irritation
2. Chronic Overexposure - Skin or Eye Irritation, Dermititis, Oil Acne

EMERGENCY AND FIRST AID PROCEDURES: Flush eyes for 15 minutes holding eyes open. CONSULT A PHYSICIAN - GET MEDICAL ATTENTION!! If irritation or rash develops, consult a physician. GET MEDICAL ATTENTION!!

ROUTES OF EXPOSURE: N.A.

SECTION VI — REACTIVITY DATA

STABILITY			CONDITIONS TO AVOID
	UNSTABLE		Strong Oxidizers
	STABLE	X	

INCOMPATABILITY *(MATERIALS TO AVOID)*: N.A.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon Dioxide, Carbon Monoxide and other combustion products of hydrocarbons

HAZARDOUS POLYMERIZATION			CONDITIONS TO AVOID
	MAY OCCUR		N.A.
	WILL NOT OCCUR	X	

SECTION VII — SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Scoop up material and dispose of in accordance with State and Local Regulations.

WASTE DISPOSAL METHOD: Same as above.

SECTION VIII — SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION *(SPECIFY TYPE)*: Normally not required in adequate ventilation. If exposure limit is exceeded, NIOSH or MSHA Approved Apparatus is required.

VENTILATION			
	LOCAL EXHAUST: As needed	SPECIAL: N.A.	
	MECHANICAL *(GENERAL)*: As needed	OTHER: N.A.	

PROTECTIVE GLOVES: Chemical resistant

EYE PROTECTION: Goggles

OTHER PROTECTIVE EQUIPMENT: As needed to prevent exposure

SECTION IX — SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Keep away from flames, sparks or hot surfaces. Never use a torch on or near container. Empty containers - Cans contain explosive vapors.

OTHER PRECAUTIONS: Never wear contaminated clothing. Launder or dry clean before wearing. Discard oil soaked shoes. Minimize skin contact.

Section IX must be completed or the following statement signed:
There are no known dangers, hazards or risks based upon tests conducted by the manufacturer or research of the technical literature available on the toxic or hazardous substance.

USMC HAZARDOUS MATERIAL POLLUTION PREVENTION (HMPP) PROGRAM

HISTORICAL PERSPECTIVE

- Where We Have Been - Past Practices
- Where We Are - Clean up
- Where We Are Heading - Reduction

OTHER PROSPECTIVE IMPACTS

- Reduce Impact of New Regulatory Changes
  - EPA - Toxicity Characteristics leaching procedure test (4x> hazardous wastes)
  - EPA - Hazardous Waste Land Ban (3x> waste streams, no land disposal, requires waste treatment/minimization)
  - EPA - Clean Air Act (Best Avail Tech - 150 HM)
  - OSHA - PEL Controls (Requires Admin or Engineering Control)

SCOPE OF PRESENTATION

- Requirements USMC Must Meet
- Background and Scope of Hazardous Material Pollution Prevention (HMPP)
- Life Cycles Approach/Acquisition to Demilitarization
- Objectives and Approach of this study
- Lessons Learned from USN Hazardous Material Control and Management
- Ultimate Goal

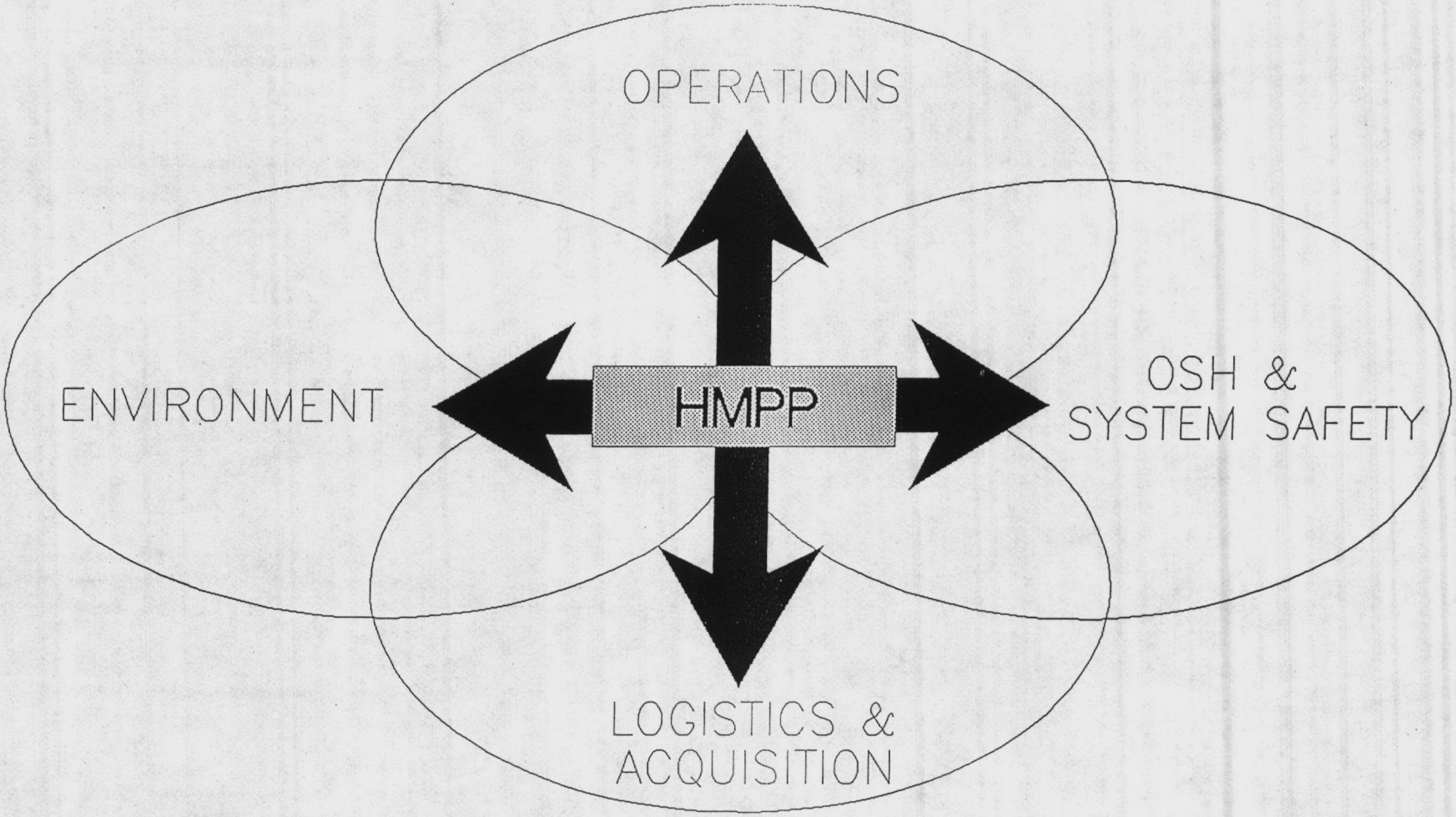
BACKGROUND

- Key Requirements DoD 4210.15, 27 Jul 1989
  - Life Cycle Approach
  - Services Must Implement with directives
  - Defense Acquisition Board Overview
  - Economic Analysis Required
- New / Pending Directives
  - Revision MIL STD 1388 - 1 A/B
  - SECNAVINST 5000.xx
  - DODI 5000.2 (Sec 6)

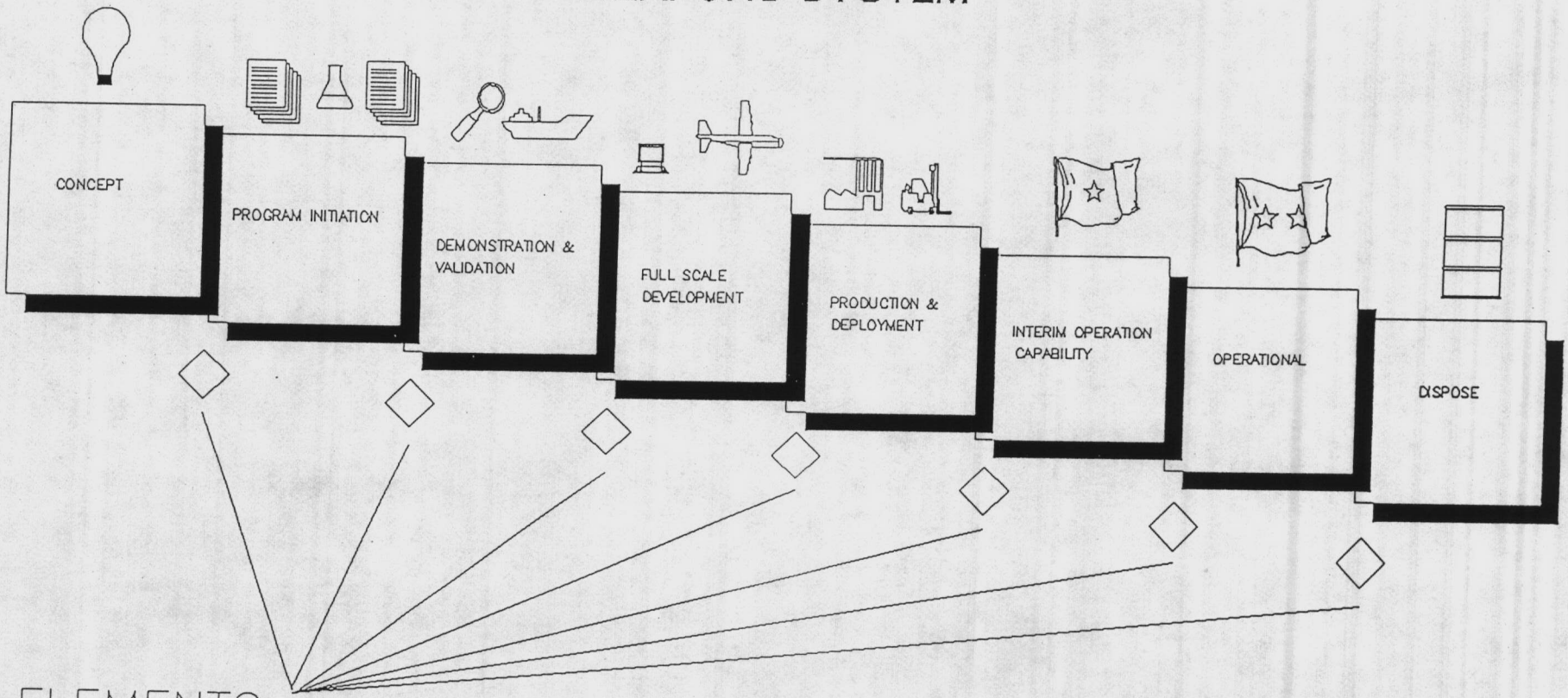
BACKGROUND (Continued)

- HMPP - A Logistic Management Component
  - Not Solely Environment, Health and Safety
- Objective
  - Life Cycle "Up-front" minimization of Hazardous Material/Hazardous Waste (HM/HW) costs
  - Reduce HM use and exposures
  - Supports Combat Readiness
  - Avoid/minimize impacts across the board (e.g. Supply, Maintenance, Facilities, Environmental, Safety, Operations).

SCOPE OF HMPP



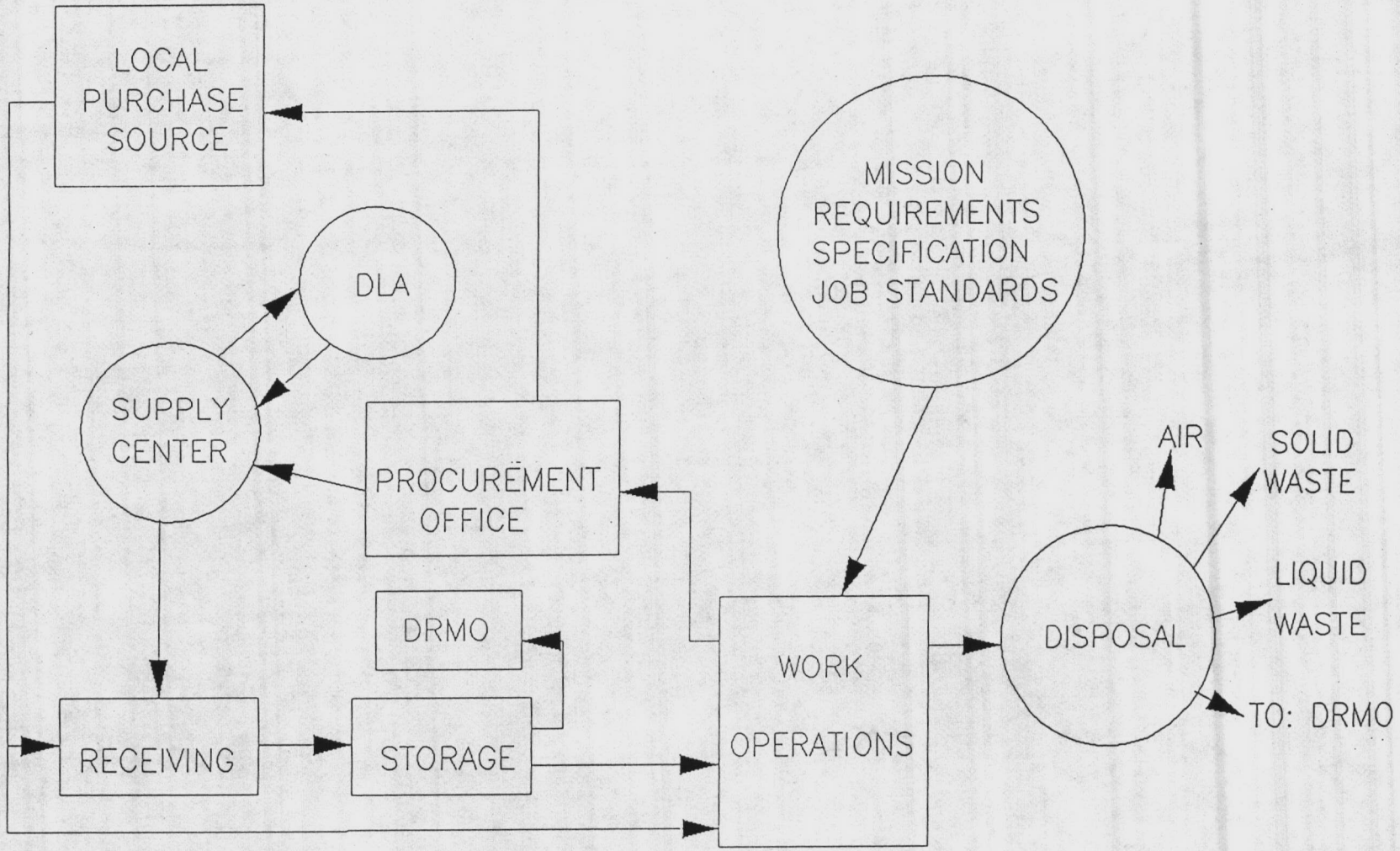
HMPP IN TYPICAL LIFE CYCLE WEAPONS SYSTEM



ELEMENTS INCLUDED IN ILSP AND CHECKED AT EACH DECISION POINT ◇

ACQUISITION MILESTONES

HAZARDOUS MATERIAL MANAGEMENT
REGULATORY REQUIREMENTS AND LIFE CYCLE CONCEPT



OBJECTIVES

- Develop Comprehensive USMC Program Procedures for HMPP
- Integrate HMPP into USMC Activities
  - Informed Decision For Use
  - "Up Front" Reduction - Design Out
  - Modify Procedures/Practices/Processes
  - Substitution of Less Hazardous Materials
  - Smart Procurement/Supply Discipline
  - User Restriction authorized use list

APPROACH

- Review all relevant USMC Orders/Manuals/Organizational
- Analysis of DoD/Navy/EPA/OSHA Requirements
- Headquarters Interviews/Site visits
- Develop Recommended Program Directive
- Recommend Changes to Appropiate Directives/Orders
- Develop suggested POA&M for Implementation and follow up

KEY ELEMENTS OF EFFECTIVE PROGRAM

- Clear Cut Policy - Management Responsibility/Action
- Assignment of "Action" to Headquarters Staff
- Requirements regarding Acquisition Program-Clear and Emphatic - ILSP/LSA
- Same regarding "Installations" (e.g. MCAS)
- "Authorized Use Lists"
- Training
- Closed Loop/Feedback (POA&M, Staff visits & LSA/Audits)

TRUE END OBJECTIVE

- Meet National Objectives
- Comply with Existing Directives
- Support Operational Readiness
  - Minimize Hazards to Support Personnel
  - Avoidance of Restrictions to Mission
  - Reduction in Cost (Direct and Indirect)
- GOAL - USMC Leadership

A. F. MEYER AND ASSOCIATES, INC.
Industrial Hygiene, Safety, and Occupational Health Consultants

FACSIMILE COVER LETTER

DATE: 2/12/91 TIME: _____

FAX #: 919 451 5068

TO: Penny Sharp (451 5093)

FROM: D. L. Watson

JOB ID # 5107 aH NUMBER OF PAGES (inc. cover): 1

COMMENTS: RE HMPP site visit

FOR ASSISTANCE: If you have any questions or do not receive all pages, please call 703/734-9093. Our FAX machine number is 703/734-9866.

6849 Old Dominion Drive, Suite 228 • McLean, Virginia 22101 • 703/734-9093 • FAX 703/734-9866

SITE VISIT PROTOCOL AND LINES OF INQUIRY FOR THE U.S. MARINE CORPS HAZARDOUS MATERIAL POLLUTION PREVENTION (HMPP) SITE VISITS

SPECIFIC LINES OF INQUIRY:

The following questions represent the principal elements of data to be obtained. Please note that many of the questions are directed at obtaining information from the local hazardous material management directive or instruction. If no such document exists, then the interviewer should determine how the activity handles each issue and which Marine Corps order they use to justify there actions.

Organization and Administration of current HMPP efforts. (Generally the source is the POC)

1. Is there a local directive for the following issues and if so who is responsible for updates/enforcement?

   Environmental
   Safety
   Hazardous Materials

2. Is there a designated HM Coordinator?

   Who is the designee, by name, title, and code?

   What were the qualification requirements used in his selection?

3. Has an HM Committee been established?

   If so, who are the members, by organization and code?

   How were they selected?

   Does it meet and how often?

   What are its functions?

4. Does the local directive clearly establish responsibilities for procurement, processing, and availability of MSDS?

5. Does the local directive have requirements for the establishment of an "authorized list of hazardous materials"?

   Does it also provide for maximum quantities allowed?

4. Is there an "annual inventory" of HM/HW? If not, is there a "periodic" inventory conducted?

   How is it conducted?

5. What is the role of the HM Coordinator re HAZCOM Training?

   How is the training accomplished, and by whom?

   Obtain information as to any locally developed, or procured HAZCOM Training materials and systems.

   (Note, if the HM Coordinator is not responsible for the training, determine what Code is, and direct these inquiries there.)

6. Obtain information on the details of the Activity's Hazardous Material Emergency procedures. (Note, similar information is to be obtained from the Public Works Code, with special reference to HW.)

7. How does the HM function interact with the Industrial Hygiene function?

8. Obtain information on the HM tracking system, if one is used.

   Is it computer based?

   (Note, this question also is to be used during meetings with Production and Supply.)

9. Request comments as to the good elements of the activities HM program and procedures, and thoughts on possible improvements. (Note, this close out inquiry is to be used at all interviews.)

Procurement Office:

1. How are procurement requests for Hazardous Materials identified as they come into the Procurement function?

2. If there is an Authorized or Prohibited List, what actions are taken if an item is requested that is not on the authorized list, or conversely is on the prohibited list?

3. What forms or computer generated procedures are used for initiation by Codes and/or Shops for Hazardous Materials?

4. How are local purchase requests and Blanket Procurement Authority (BPA) actions involving Hazardous Materials

6. How does the local directive set requirements and procedures for HAZCOM training?

7. Does the local directive contain requirements as to labeling of HM and HW.

8. Does the local directive have specific procedures for the disposal of excess hazardous material and hazardous waste?

9. Does the local directive provide for coordination of requirements of other instructions and program requirements (e.g., work place monitoring; medical surveillance, etc.)?

10. What are the requirements with respect to emergency procedures for spills and hazardous material emergencies?

11. Request comments as to the good elements of the activity's HM program and procedures and thoughts on possible improvements. (Note, this close out inquiry is to be used at all interviews.)

*Obtain a copy of the Activity's Hazardous Material Management and Hazardous Waste Instructions or directives (if they exist). Upon return to AFMA these will be compared with OPNAV INSTRUCTION 4110.2 and relevant Marine Corps orders.

Designated HM Coordinator (or OSH/ENVIRON POC if None)

1. If an HM list is established...

   What criteria was used?

   How were minimum needs and maximum on hand level determined?

   Is there a list of prohibited items?

   What are they, and how were they identified?

2. How does the HM Coordinator or equivalent function and who is responsible for Hazardous Waste (HW).

   Do these two function coordinate and/or overlap?

3. Describe how the MSDS system at this activity is conducted?

   Who has custody of the MSDS's?

   What systems are in place to ensure MSDS availability to employees?

dealt with, as to MSDS and Label requirements? What are the procedures used to ensure compliance with the Federal Acquisition Regulations (FAR 25.303 etc.)?

Are there any checks for less hazardous substitutes made?

5. How does the Procurement Office match the procurement request against established minimum/maximum on hand quantities?

6. Is the Procurement Office represented on any HazMat Committees or, if no committee exists in any HazMat decision process?

7. Request comments as to the good elements of the activities HM program and procedures, and thoughts on possible improvements. (Note, this close out inquiry is to be used at all interviews.)

Supply Code:

1. If there are authorized or prohibited lists, how does the Supply function maintain an overview of the storage and distribution of these materials? If not, what does Supply do regarding Hazardous Material?

2. Is the HM system integrated into the overall automated Supply Management System? Obtain details if so, and if not, how is this accomplished? If not what does Supply do regarding Hazardous Material?

3. Are there procedures in use with regard to control of quantities on hand, consistent with requirements regarding maximum amounts permitted?

4. Does Supply have a master file of MSDS for items procured and on hand?

5. What are the procedures with regard to HM that is nearing the approved shelf life, or which is excess to activity needs?

6. With reference to 5, obtain information as to any problems with disposal of excess or waste items with the Defense Reutilization and Marketing Organization (DRMO).

7. How are MSDSs obtained and distributed for any bulk quantity items (e.g., tank truck or similar deliveries)?

8. How does Supply participate in the annual or periodic HM Inventory?

9. Request comments as to the good elements of the activities HM program and procedures, and thoughts on possible improvements. (Note, this close out inquiry is to be used at all interviews.)

Supply;Receiving and Shipping:

1. What are the procedures used for inspecting incoming Hazardous Materials with reference to the presence and adequacy of labels; MSDS availability; and physical condition of the containers?

2. Do HM shipments go from Receiving and Shipping to the requesting Code or Shop direct, or to the HM Storage Facility? If direct, what system exists to ensure that the amounts are within authorized limits (if any exist)?

3. To what extent are items received through the Federal Supply System marked with the FS Bar Codes?

4. What documents are used to advise Receiving of incoming HM?

5. Request comments as to the good elements of the activities HM program and procedures, and thoughts on possible improvements. (Note, this close out inquiry is to be used at all interviews.)

Hazardous Material Storage Facility:

1. Obtain information on the specific procedures used on receipt of HM with reference to labels, MSDS, documentation, and storage records.

2. How is the issue and distribution to shops, stores, and users controlled?

3. Does information on the quantities of materials, normally on hand, and estimates of the amounts received and issued over a typical year exist? If the information exists, obtain a copy.

4. Is the storage facility adequate with regard to size, construction features, and compliance with OSHA storage and commodity segregation requirements?

5. Request comments as to the good elements of the activities HM program and procedures, and thoughts on possible improvements. (Note, this close out inquiry is to be used at all interviews.)

Production (or Comparable Code/Organization).

(NOTE-There may be several organizations within production at which information on the following may need to be obtained.)

1. How are requests for HM originated?

   What controls are provided to ensure that the HM is on an approved list, called for by a Standard Job Procedure or comparable standard for work operations?

   What controls are provided to ensure that the HM requested is the least hazardous available and most cost effective?

   Are disposal costs considered in above?

2. To what extent have supervisors and employees received the required HAZCOM training?

3. How are MSDSs made available to employees?

4. What procedures are used to ensure that materials on hand are the minimum needed for the required work?

5. How is the problem of expired or near expired shelf life on HM dealt with?

6. What procedures are being used to identify means for the elimination or reduction of HM?

7. To what extent are nonstandard local procured items used? How are the hazardous properties identified?

8. What procedures are used by shops to identify, collect, and prepare for collection and disposal of Hazardous Waste?

9. What input does production have into HM and HW inventories?

10. Are any records on HM and HW maintained in shops?

11. Request comments as to the good elements of the activities HM program and procedures, and thoughts on possible improvements. (Note, this close out inquiry is to be used at all interviews.)

Environmental Coordinator (EC)

1. How does the EC interact with the HM Manager and Public Works on both hazardous material control and hazardous waste functions.

2. Is there an overall Hazardous Waste Management Plan, aimed at meeting USMC's hazardous waste minimization requirements/goals? Obtain details and copies of specific documentation.

3. If the Activity operates waste water and industrial waste disposal facilities, are they in compliance with permit requirements?

   If not what are the problems that are traceable to improper HM or HW practices?

4. What organization plans, manages and operates the HM collections, temporary storage, and disposal functions?

5. What organization is responsible for preparing the EPA manifest and DD Forms 1348-1?

6. Obtain information on the emergency and spill response procedures and organization?

7. Request comments as to the good elements of the activities HM program and procedures, and thoughts on possible improvements. (Note, this close out inquiry is to be used at all interviews.)

Public Works:

1. Is there a hazardous waste storage facility?

   Are there satellite temporary collection and storage facilities?

   Do these meet EPA requirements?

2. Have the hazardous waste storage personnel received both HazCom and HW training?

3. How are HW collected and transported from originator locations?

4. Describe the relationship with DRMO, and explain how effective it is in meeting activity needs.

5. What system is used to maintain records and inventory data on HW.

6. How is the annual HW report developed?

7. What actions are taken with production and supply to reduce hazardous material usage, which may become HW?

8. Request comments as to the good elements of the activities HM program and procedures, and thoughts on

possible improvements. (Note, this close out inquiry is to be used at all interviews.)

Industrial Hygiene

1. Does the IH code play a role in reviewing MSDS's and providing advice to the HM/HW program?

2. To what extent if any is the information regarding HazMat and Haz Waste inventories and data systems used in the annual IH evaluation; and in assisting the activity in developing its work place monitoring program?

3. Is there a computer based or other automated IH and medical surveillance system? If so, how does it interact with any HM information management system of the activity.

4. Request comments as to the good elements of the activities HM program and procedures, and thoughts on possible improvements. (Note, this close out inquiry is to be used at all interviews.)

Cost Information

To the extent feasible in each interview, attempt to obtain cost related information on such considerations as:

1. Resources required to implement HM and HW Management Programs.

2. Cost savings associated with any innovative procedures.

3. Excessive costs associated with break downs in established systems (e.g., DRMO etc.).

4. Request comments as to the good elements of the activities HM program and procedures, and thoughts on possible improvements. (Note, this close out inquiry is to be used at all interviews.)

Carbon Dioxide Material Safety Data Sheet

Industrial Gas Division
Air Products and Chemicals, Inc.
P.O. Box 538
Allentown, PA 18105
Tel. (215) 481-4911 · TWX 510-651-3686
CABLE-AIRPROD · TELEX 84-7416

AIR PRODUCTS

EMERGENCY PHONE: 800—523-9374	IN PENNSYLVANIA: 800—322-9092	
ISSUE DATE Issued: 1 November 1977 REVISIONS Rev: 10 July 1986	TRADE NAME AND SYNONYMS Carbon Dioxide, Dry Ice (solid only)	CHEMICAL NAME AND SYNONYMS Carbon Dioxide, Carbonic Anhydride, Carbonic Acid Gas
	FORMULA CO_2 MW: 44.01	CHEMICAL FAMILY Nonmetallic Oxides CAS#124-38-9

HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE

ACGIH/OSHA PEL = 5000 PPM. STEL (Short term exposure limit) = 30.000 PPM. Carbon Dioxide is not listed as a carcinogen by IARC, NTP, or OSHA.

SYMPTOMS IF INGESTED, CONTACTED WITH SKIN, OR VAPOR INHALED

Carbon dioxide does not support life and may produce immediately hazardous atmospheres. At a concentration in excess of 1.5%, carbon dioxide may produce hyperventilation, headaches, visual disturbances, tremor, loss of consciousness and death. Symptoms of exposure in the concentration ranges of 1.5-5% may be highly variable, but typical symptoms of carbon dioxide intoxication include the following:

CO_2 Concentration	Symptoms
3-6%	Headaches, dyspnea, perspiration
6-10%	Headache, dyspnea, perspiration, tremors, visual disturbance, unconsciousness
Over 10%	Unconsciousness

If the concentration of carbon dioxide exceeds 10%, unconsciousness can occur without warning, preventing self-rescue. At much higher concentrations, carbon dioxide displaces the oxygen in air below levels necessary to support life.

TOXICOLOGICAL PROPERTIES

Carbon dioxide is a minor but important constituent of the atmosphere, averaging about 0.03% or 300 ppm by volume. At higher concentrations it affects the respiratory rate. Additional symptoms are described above.

RECOMMENDED FIRST AID TREATMENT

Persons suffering from the toxic effect of carbon dioxide should be moved to areas with normal atmosphere. SELF-CONTAINED BREATHING APPARATUS MAY BE NECESSARY TO PREVENT TOXIC EXPOSURE OR ASPHYXIATION OF RESCUE WORKERS. Assisted respiration and supplemental oxygen should be given if the victim is not breathing. Frozen tissues should be flooded or soaked with tepid water (105-115F; 41-46C). DO NOT USE HOT WATER. Cryogenic burns which result in blistering or deeper tissue freezing should be seen promptly by a physician.

FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used)	AUTO IGNITION TEMP	FLAMMABLE LIMITS	LEL	UEL
N/A	N/A	N/A	N/A	N/A

EXTINGUISHING MEDIA	ELECTRICAL CLASSIFICATION
Carbon dioxide is an extinguishing agent for Class B & C fires.	GROUP N/A

SPECIAL FIRE FIGHTING PROCEDURES

N/A

UNUSUAL FIRE AND EXPLOSION HAZARDS

N/A

PHYSICAL DATA

BOILING POINT (°F.) (Sublimes)	FREEZING POINT (°F)
@ 1 atm −109.3F (−78.5C)	@ 76 psia −69.9F (−56.6C)
VAPOR PRESSURE (psia)	SOLUBILITY IN WATER
@ 68F (20C) 831 psia (56.5 atm)	@ 68F (20C), 1 atm 87.8% by volume

VAPOR DENSITY (lb/cu ft)	SPECIFIC GRAVITY (AIR = 1)	LIQUID DENSITY (lb/cu ft)	SPECIFIC GRAVITY (H_2O = 1)
@ 68F (20C), 1 atm 0.115	@ 68F (20C), 1 atm 1.53	@ −35F (−37C), 11 atm 68.74	solid @ −110F (−79C), 1 atm 1.56

APPEARANCE AND ODOR

Carbon dioxide is colorless and odorless as gas or liquid. It is stored in containers under its own vapor pressure. If the pressure is suddenly relieved, the liquid rapidly cools as it evaporates and sublimes, forming dry ice at −109.3F (−78.5C).

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REACTIVITY DATA

STABILITY			CONDITIONS TO AVOID
	UNSTABLE		
	STABLE	X	None

INCOMPATIBILITY (Materials to avoid)
If moisture is present, materials must resist carbonic acid.

HAZARDOUS DECOMPOSITION PRODUCTS
None

HAZARDOUS POLYMERIZATION			CONDITIONS TO AVOID
	MAY OCCUR		
	WILL NOT OCCUR	X	None

SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED
Carbon dioxide in small quantities will vaporize leaving behind carbon dioxide "snow" (a combination of dry ice and water ice where atmospheric moisture is present). Ventilate indoor areas well to avoid hazardous carbon dioxide concentrations. Ventilate well and avoid contact with cold vapors or dry ice. Carbon dioxide is a heavy gas and will remain in low spots without assisted ventilation.

WASTE DISPOSAL METHOD
Do not attempt to dispose of residual carbon dioxide in compressed gas cylinders. Return cylinders to Air Products with residual pressure, the cylinder valve tightly closed, and the valve cap in place. When disposing of bulk quantities of carbon dioxide from refrigerated storage tanks, always dispose of carbon dioxide outside, in a well ventilated location away from work areas, where vapors can disperse. Vent to the atmosphere slowly since rapid depressurization of the container will cause the formation of solid carbon dioxide (dry ice) internally, requiring longer periods to vaporize.

SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (Specify type)
Use self-contained breathing apparatus in oxygen-deficient atmospheres or where carbon dioxide exceeds 1.5%. CAUTION! Respirators will not function. Use may result in asphyxiation.

VENTILATION	LOCAL EXHAUST	SPECIAL
Natural or mechanical where gas or vapors are present.	May be useful at point sources of CO_2 vapors.	
	MECHANICAL (General) Where low lying areas are not naturally ventilated	OTHER Vents should be situated to avoid higher than normal concentration of carbon dioxide in work areas.

PROTECTIVE GLOVES
Use loose fitting gloves or impermeable material such as leather when working with cold liquid, solid, or vapor.

EYE PROTECTION
Safety glasses are recommended when handling high-pressure cylinders and in areas where vapors are discharged.

OTHER PROTECTIVE EQUIPMENT
None

SPECIAL PRECAUTIONS*

SPECIAL LABELING INFORMATION
Carbon dioxide shipment must be in accordance with Department of Transportation (DOT) regulations using the DOT "NON-FLAMMABLE GAS" label. Consult DOT regulations for details on the shipping of hazardous materials.

SPECIAL HANDLING RECOMMENDATIONS
Prevent contact of liquid CO_2, cold vapors, or carbon dioxide "snow" with exposed skin. Prevent entrapment of liquid in closed systems. Use only in well ventilated areas. Compressed gas cylinders contain gaseous and liquid carbon dioxide at extremely high pressure and should be handled with care. Use a pressure-reducing regulator when connecting to lower pressure piping systems. Secure cylinders when in use. Never use direct flame to heat a compressed gas cylinder. Use a check valve to prevent backflow into storage container. Avoid dragging, rolling, or sliding cylinders, even for a short distance. Use a suitable hand truck. For additional handling recommendations on compressed gas cylinders, consult Compressed Gas Association Pamphlet P-1.

SPECIAL STORAGE RECOMMENDATIONS
Store liquid containers and cylinders in well ventilated areas. Keep cylinders away from sources of heat. Storage should not be in heavy traffic areas to prevent accidental knocking over or damage from passing or falling objects. Valve caps should remain on cylinders not connected for use. Segregate full and empty cylinders. Storage areas should be free of combustible material. Avoid exposure to areas where salt or other corrosive chemicals are present. Store carbon dioxide cylinders with the valve end up. See Compressed Gas Association Pamphlet P-1 for additional storage recommendations.

SPECIAL PACKAGING RECOMMENDATIONS
Carbon dioxide containers meet Department of Transportation (DOT) specifications or American Society of Mechanical Engineers (ASME) codes.

OTHER RECOMMENDATIONS OR PRECAUTIONS
In applications where temperatures less than -20F (-29C) are expected, avoid the use of carbon steel and other materials which become brittle at low temperatures. Compressed gas cylinders should not be refilled except by qualified producers of compressed gases. Shipment of a compressed gas cylinder filled without the permission of the owner is a violation of Federal Law. The atmosphere in areas in which CO_2 gas may be vented and collect should be tested with a portable or continuous monitoring CO_2 gas analyzer.

*Various Government agencies (i.e., Department of Transportation, Occupational Safety and Health Administration, Food and Drug Administration and others) may have specific regulations concerning the transportation handling, storage or use of this product which will not be reflected in this data sheet. The customer should review these regulations to ensure that he is in full compliance.