

6241/3C
7-6242/3

6240
NREAD

25 Sep 1986

Via: Director, Natural Resources and Environmental Affairs Division,
Marine Corps Base, Camp Lejeune
Director, Printing Plant Division, Assistant Chief of Staff,
Logistics, Marine Corps Base, Camp Lejeune (Attn: Mr. Nieberger)
Base Maintenance Division, Marine Corps Base, Camp Lejeune

ELECTROSTATIC CONVERSION SOLUTION; DISPOSAL OF

1. Approval is hereby given to the Base Printing Plant to dispose of waste, A. B. Dick Part Number 4-1067, Electrostatic Conversion Solution, through the sanitary sewer. The printing plant may pour up to six gallons per month down a sink drain connected to the Hadnot Point sanitary sewer system. Larger quantities will be turned over to the Utilities Division, Base Maintenance for disposal. Empty solution containers will be triple rinsed with water and disposed of in the sanitary landfill.
2. This approval is limited to the specified manufacturer and part number. If there is a change in product used, addressee is requested to provide a material safety data sheet containing hazardous component information to Natural Resources and Environmental Affairs Division for evaluation of disposal requirements. This should be done prior to discharging waste.
3. Natural Resources and Environmental Affairs point of contact on this matter is Ms. Elizabeth Betz, 451-5977.

JULIAN I. WOOTEN

Blind copy to:
WQCL, NREAD

1-PSHSL3
PS4130

[Faint, illegible text, likely bleed-through from the reverse side of the page]

copy to
[illegible]



Betsy:

set up a file on
these type of projects.

Please recommend a disposal
methodology. Dave B. Mayhew
ADMC Informer.

Due 16 MAY 86

Handwritten text, possibly a note or address, including the words "Dear" and "to BNO".

Handwritten signature or name, possibly "D. W. ...".

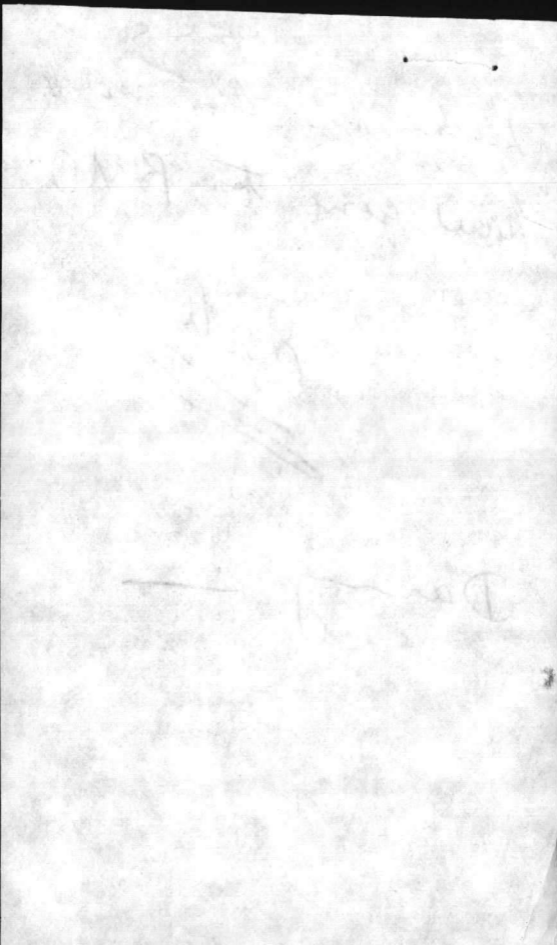
Handwritten signature or name, possibly "D. W. ...".

5-8-84

Lecher like this should
have gone to BMO

JW

Danny DPS



ASSISTANT CHIEF OF STAFF, FACILITIES
HEADQUARTERS, MARINE CORPS BASE

DATE _____

TO:

BASE MAINT O

DIR, FAMILY HOUSING

PUBLIC WORKS O

DIR, UNACCOMPANIED PERS HSG

COMM-ELECT O

BASE FIRE CHIEF

NREA

ATTN: Mr Wooten

1. Attached is forwarded for info/action.

2. Please initial, or comment, and return all papers to this office.

3. Your file copy

B. Wooten
By dir

"LET'S THINK OF A FEW REASONS
WHY IT CAN BE DONE"

WISER

WISER

WISER

WISER

WISER

From: Director, Natural Resources and Environmental Affairs
Division, Facilities, MCB

To: Director, Printing Plant Division, Logistics, MCB Attn:
Mr. Nieberger

Via: Base Maintenance Officer, Facilities, MCB, Attn: Utilities
Director

Subj: ELECTROSTATIC CONVERSION SOLUTION; Disposal of

1. Approval is hereby given to the Base Printing Plant to dispose of waste A. B. Dick Part Number 4-1067 Electrostatic Conversion Solution through the sanitary sewer. The printing plant may pour up to six gallons per month down a sink drain connected to the Hadnot Point sanitary sewer system. Larger quantities will be turned over to the Utilities Division, Base Maintenance for disposal. Empty solution containers will be triple rinsed with water and disposed of in the sanitary landfill.

2. This approval is limited to the specified manufacturer and part number. ~~If a new manufacturer is to be used,~~ ^{there is a change in product used, addressee is requested to provide} a material safety data sheet containing hazardous component information ~~must be provided~~ to Natural Resources and Environmental Affairs Division ^{for evaluation} ~~to determine proper disposal.~~ ^{This should be done prior to discharging waste.}

3. Natural Resources and Environmental Affairs point of contact on this matter is Elizabeth Betz, 451-5977.

Copy to:
QCLAB

Blind

2: 7.00

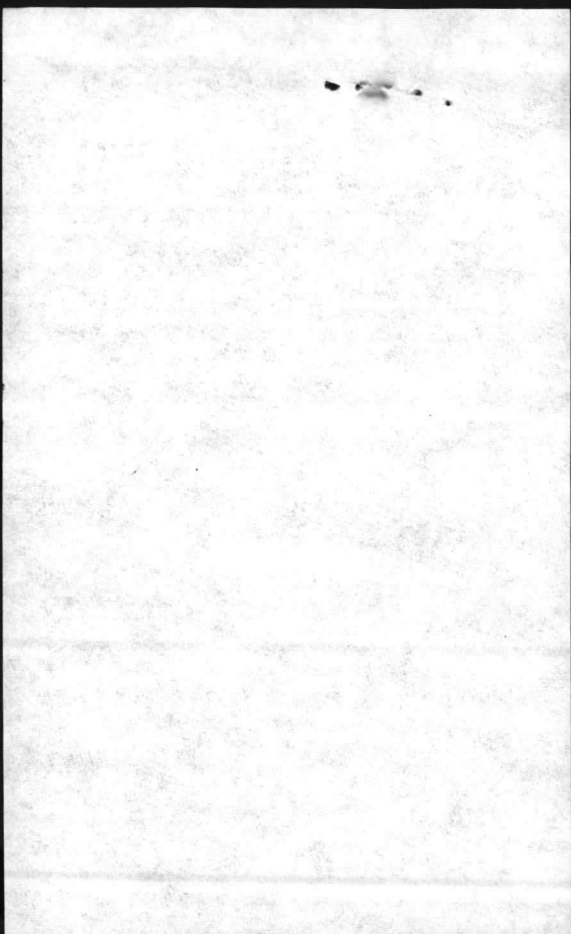
3: 6.8

JIM

SPEAKMAN

901-372-7962

MEMPHIS,
TENN



AMMONIUM ACID PHOSPHATE (AMMONIUM ~~ACID~~ PHOSPHATE, MONOBASIC) < 10%
NONCOMBUSTIBLE, LOW TOXICITY

POTASSIUM FERROCYANIDE 2%

WHEN HEATED → HIGHLY TOXIC FUMES
ITSELF → LOW TOXICITY

POTASSIUM SULFIDE < 1.5%

FLAMMABLE, MAY IGNIT. SPONTANEOUSLY.

WATER 88%

CHELATING AGENT 0.1%
(EDTA. ETC)

52 EMPTY JUGS

40 GALLONS STOCK PILED

4 GALS/MONTH.

Ammonium Acetate (Ammonium Acetate) $> 10\%$

Ammonium Acetate, low toxicity

Potassium Phosphate 2%

used as a nutrient source

low toxicity

Potassium Citrate $> 1\%$

Flavoring, low toxicity

Water 28%

Chelating Agent (EDTA) 0.1%

2% Fertilizer

AD Gaining Stock Piled

4000/10000

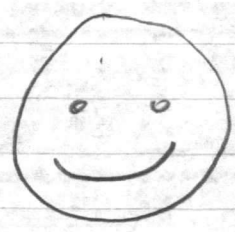
Mr. Burke: 5919
5131
Mr. Mcbarger

Determine of Electrostatic
Conversion Solution
AB Dick Pat 4-1067-1
(1) can go to sewer (2) or is A
HW or (3) is A HM

Betsy: Contact Mr. Mcbarger and
Determine if above material is
is a HW, HM or an item
which can be discharged to sewer.
Do not recommend sewer disposal without
reviewing with Junior Johnson first.
We will need to answer in writing.
Handle personally. I would recommend
contacting Lant Div after you
get all the info you can from Printers
plant. Might not have to
sample. Essentially we need to help them
develop an SOB for DISPOSAL

(Exactly the kind of
an assignment "New"
chemist should handle)

4 GALS
MONTH.



80
52 JUGS
70 GALS



~~11/12/28~~

~~11/12/28~~

~~11/12/28~~

Betsy: Contact Mr. McLouger and
Determine if Above material is
is a HW, HM or an item
which can be discharged to sewer.
Do NOT recommend sewer disposal without
reviewing with Junior Johnson first.
We will need to answer in writing.
Handle personally. I would recommend
contacting S&T Div after you
get all the info you can from Painters
plant. Might not have to
sample. Essentially we need to help them
develop an SOB for DISPOSAL

(Exactly the kind of
an assignment "New"
chemist should handle)

4 GALS
MONTH



80
52 JUGS
70 GALS



~~SECRET~~

~~CONFIDENTIAL~~

~~SECRET~~

~~CONFIDENTIAL~~

~~SECRET~~

MATERIAL SAFETY DATA SHEET

(APPROVED BY THE U.S. DEPARTMENT OF LABOR AS "essentially similar" to form OSHA-20 (former LSB-055-4)
FOR HAZARDOUS PRODUCTS USED IN PLACES OF EMPLOYMENT

Section 1 NAME AND PRODUCT 4-1067-1 Conversion Solution

MANUFACTURER'S NAME (a) A.B.DICK COMPANY		EMERGENCY PHONE NO.: 24 HOURS (b) 312-647-8800
STREET ADDRESS (c) 5700 WEST TOUHY AVENUE		DATE THIS FORM WRITTEN (d) November 13, 1984
CITY, STATE, ZIP CODE (e) CHICAGO, ILLINOIS 60648		SIGNATURE (f) Kenneth W. Pinter <i>Kenneth W. Pinter</i>

CHEMICAL NAME, TRADE NAME, AND SYNONYMS
(g)

HAZARD CLASSIFICATION FOR DEPARTMENT OF TRANSPORTATION (DOT)

Flammable Liquid Combustible Liquid Corrosive Material

DOT Shipping Name Not regulated. UN#

Section 2 HAZARDOUS INGREDIENTS

	CAS Reg. No.	% Wt.	TLV (units)
1. Potassium Ferrocyanide *	13943-58-3	1-2	

* (CN) equivalent to 7×10^{-5} mg/l

Section 3 PHYSICAL DATA pH 4.5 FREEZING POINT (°F) 20

BOILING POINT (°F.)	> 212	6. SPECIFIC GRAVITY (H ₂ O = 1)	1.068
3. VAPOR PRESSURE (mmHg at 20°C)	20 mm	7. % VOLATILE BY VOLUME	85-90
4. VAPOR DENSITY (air=1)	0.6	8. COLOR AND ODOR	Green - no odor
5. SOLUBILITY IN WATER	Complete	9. PHYSICAL STATE	Liquid

Section 4 FIRE AND EXPLOSION HAZARD DATA

10. FLASH POINT (AND METHOD USED) N.A. OF T.O.C., T.C.C., C.O.C.

11. FLAMMABLE LIMITS (STP) L.F.L. U.F.L.

12. EXTINGUISHING MEDIA: N.A. WATER FOG FOAM ALCOHOL FOAM CO₂ DRY CHEMICAL OTHER

13. SPECIAL FIRE FIGHTING PROTECTIVE EQUIPMENT N.A.

14. UNUSUAL FIRE AND EXPLOSION HAZARDS N.A.

Section 5 REACTIVITY DATA

15. STABILITY

NORMAL CONDITIONS	OK	16. CONDITIONS TO AVOID Storage near acids.
FIRE CONDITIONS	OK	

17. INCOMPATIBILITY (materials to avoid) WATER ACID BASE CORROSIVE OXIDIZING MATERIAL OTHER

18. HAZARDOUS DECOMPOSITION PRODUCTS
Contact with acid or acidic materials may generate hydrogen cyanide.

19. HAZARDOUS POLYMERIZATION

MAY OCCUR		20. CONDITIONS TO AVOID
WILL NOT OCCUR	X	

Section 6 HEALTH HAZARD DATA

21. ORAL INGESTION

Low toxicity.

22. EYE CONTACT

Eyes should be thoroughly flushed with fresh water.

23. SKIN CONTACT

No problem - wash with soap and water.

24. SKIN ABSORPTION

See Item #23.

25. INHALATION (TLV OR SUGGESTED CONTROL FIGURE)

No problem.

26. EFFECTS OF OVEREXPOSURE

Unknown. Not considered a problem.

27. FIRST AID PROCEDURES

If ingested, call a physician.

Section 7 SPILL OR LEAK PROCEDURES

28. STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Wipe up with dry or damp cloth.

29. DISPOSAL METHOD

Dispose of according to local and state regulations for water soluble materials containing small amounts of complexed cyanide.

Section 8 SPECIAL PROTECTION INFORMATION

30. VENTILATION N.A.	LOCAL EXHAUST	SPECIAL
	MECHANICAL (General)	OTHER

31. RESPIRATORY PROTECTION (Specify Type)

N.A.

32. PROTECTIVE CLOTHING

N.A.

33. EYE PROTECTION

- NOT NORMALLY NECESSARY
 SAFETY GLASSES WITHOUT SIDE SHIELDS
 CHEMICAL WORKERS GOGGLES
 GAS TIGHT GOGGLES OR EQUIVALENT
 SAFETY GLASSES WITH SIDE SHIELDS
 OTHER _____

34. OTHER PROTECTIVE EQUIPMENT

N.A.

Section 9 SPECIAL PRECAUTIONS OR OTHER COMMENTS

35. PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Solution may freeze and should be brought to room temperature and shaken vigorously before using.

36. OTHER PRECAUTIONS

N.A.

GLC019 011 N S N FSCM MGR F P IND PN IND *** HAZARDOUS ITEM BASIC PUBLICATION ***
 6850-00-922-0919 17638 CX D A 4-1067,CONVERSION SOLUTION,ELECTROSTATIC PART NUMBER/TRADE NAME ACT CD DATE PAGE NR
 83318 1

*** GENERAL INFORMATION ***

PROPRIETARY NO A.B. DICK CO. MANUFACTURER EMERGENCY TELE NO 312-647-8800

ITEM NAME	UI	UI CONTAINER	QTY	TYPE OF CONT	NET UNIT WT	MAG/MILGAUS	EXEMPTION NO
CONVERSION SOLUTION,ELECTROSTATEIC	BT	1	GAL				

AEROSOL PROPELLANT

SPECIFICATION

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

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

NIOSH NO	CHEMICAL NAME	PCT	TLV
1000649AP	AMMONIUM ACID PHOSPHATE,CAS# 7722-76-1	<10	UNKNOWN
LJ8225000	POTASSIUM FERROCYANIDE,CAS# 13943-58-3	2	UNKNOWN
WT3530000	POTASSIUM SULFITE,CAS# 10117-38-1	<1.5	UNKNOWN
ZCO110000	WATER 7732-18-5	88	N/A
1000596CA	CHELATING AGENT,CAS# 139-33-3	0.1	UNKNOWN

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

DOT SHIPPING NAME: N/A

CLASS: LABEL:

WATER SHIPPING NAME: N/A

CLASS: LABEL: UN NO. UN CLASS. COM SP. DOT: IMCO

TARIFF 6-D SHIPPING: N/A

CLASS: LABEL:

IATA SHIPPING NAME: N/A

CLASS: LABEL: IATA ARTICLE NO:

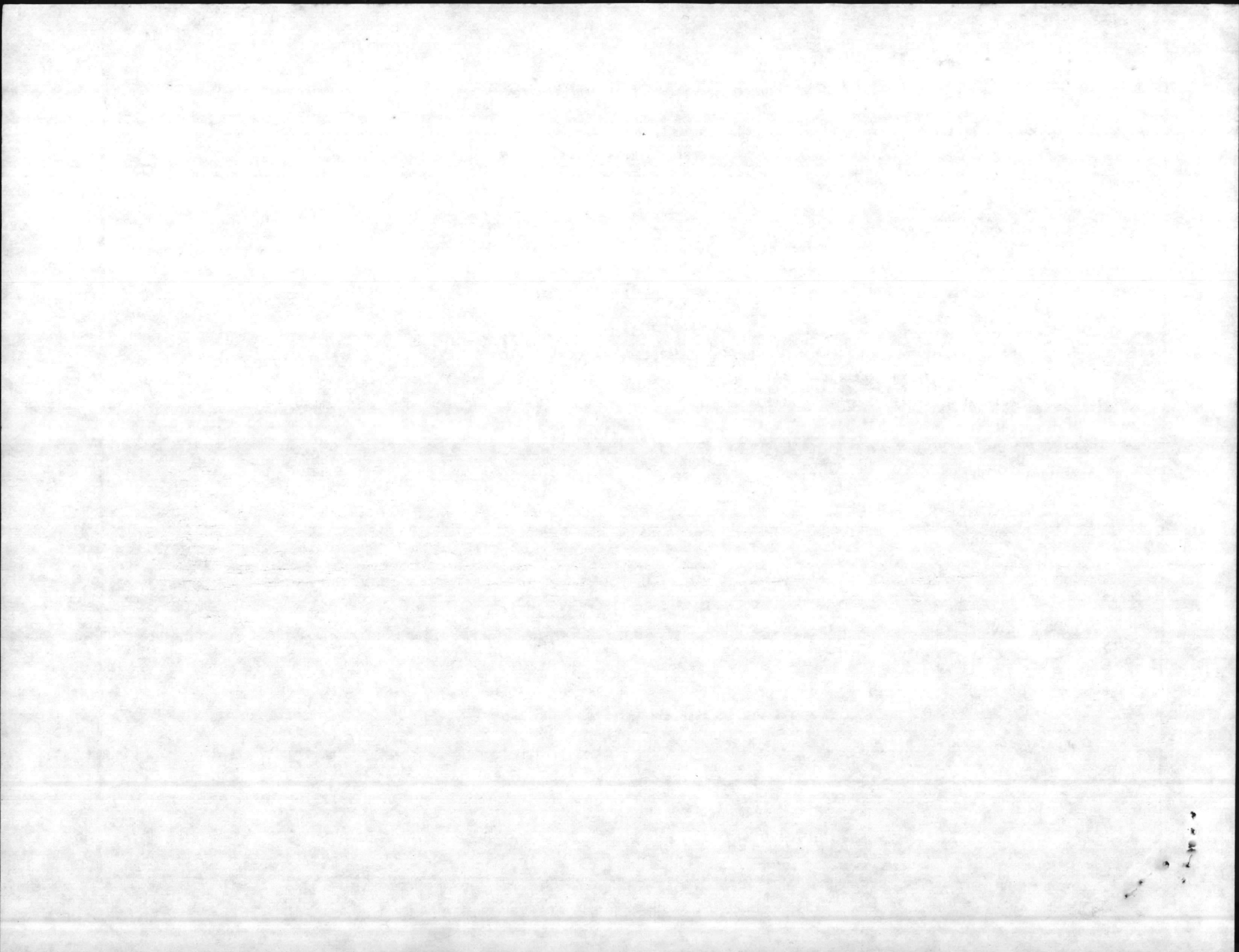
AFR 71-4 SHIPPING NAME: N/A

CLASS: LABEL: NMAC:

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

NOT REGULATED FOR TRANSPORTATION

20/2



N S N

A12

Conversion solution Electrostatie Cont

ACT CD DATE PAGE NR

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50-00-922-0919

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

BOILING POINT
>212F/100C

VAP DEN/AIR=1/
0.60

SOL IN H2O
COMPLETE

FLASH POINT
NONE

VAP PRESS/MM HG/70 F/
20

TLV-MIXTURE
SEE HAZ INGRED

STORAGE CODE
L1

APPEARANCE AND ODOR

LEL/PCT/
N/A

UEL/PCT/
N/A

SP GR
1.068

PCT VOLT BY VOL
85

EVAP RATE PER REFERENCE

GREEN LIQUID, NO ODOR

NET PROP WT-AMMO
N/A

EFFECTS OF OVEREXPOSURE

EYES: ACIDIC IRRITAT. SKIN: NO PROBLEMS. INHALED: NO PROBLEM. INGESTED: LOW TOXICITY.

STABLE
YES

CONDITIONS TO AVOID

CONDITIONS/SITUATIONS WHICH GIVE RISE TO AN ACIDIC ENVIRONS.

MATERIALS TO AVOID

MATERIALS WHICH ARE ACIDIC, ESPECIALLY HIGHLY CONCENTRATED

HAZ POLYMERIZATION OCCUR
NO

CONDITIONS TO AVOID

AUTO IGN TEMP

VISCOSITY

CG AMMO CD

HAZARDOUS DECOMPOSITION PRODUCTS

HIGHLY ACIDIC SOLUTIONS MAY GENERATE HCN

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

EXTINGUISHING MEDIA

EXTINGUISH W. AGENT SUITABLE FOR SURROUNDING FIRE.

SPECIAL FIRE FIGHTING PROCEDURES

WEAR SELF-CONTND BRTHG APP IF INVOLVED IN FIRE

UNUSUAL FIRE / EXPLOSION HAZARDS

NONE NOTED BY MANUFACTURER.

PROTECTIVE GLOVES
IMPERVIOUS

EMERGENCY FIRST AID PROCEDURES

SKIN: WASH WITH SOAP AND WATER. EYES: FLUSH WITH WATER. INHALED: REMOVE TO FRESH AIR. REMOVE CONTAMINATED CLOTHING. IF SWALLOWED, SEE A DOCTOR.

TYPE OF RESPIRATORY PROTECTION

NONE

NONE SPECIAL

VENTILATION

EYE PROTECTION

SAFETY GLASSES

NONE

OTHER PROTECTIVE EQUIPMENT

T TO ROOM TEMP. & SHAKEN HARD BEFORE USING.

HANDLING / STORAGE PRECAUTIONS
SOLUTION MAY FREEZE & SHOULD BE BROKEN

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

SPILL AND LEAK CONTROL

DO NOT TOUCH SPILL MATL. SM SPILL: ABSORB W SAND, OTHER NON COMBUSTIBLES ABSORB; FLUSH W/H*20 LG SPILL: DIKE FAR AHEAD OF SPILL FOR LATER DISPOSAL. SM SPILL: WIPE UP W DRY OR DAMP CLOTH.

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

MSDS DATED 12/19/74

20/2

