6241/3C
T-6242/3

6240
NREAD

25 Sep 1986

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)
Via: 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

Betsy:

set up a file on these type of projects. Please recommend a disposal methodology. Dave B. May have some information.

Due 16 MAY 86

5-8-86

Letters like this should have gone to BMO

JMW

Darry

DPS

ASSISTANT CHIEF OF STAFF, FACILITIES
HEADQUARTERS, MARINE CORPS BASE

DATE _____

TO:

BASE MAINT O

PUBLIC WORKS O

COMM-ELECT O

NREA

DIR, FAMILY HOUSING

DIR, UNACCOMPANIED PERS HSG

BASE FIRE CHIEF

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

By dir

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

MCBCL 5216/21 (REV. 2-81)

624 /
NREAD(L)

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

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

Via: Base Maintenace Officer, Facilites, 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, a material safety data sheet containing hazardous component information ~~must be provided~~ to Natural Resources and Environmental Affairs Division ~~to determine proper disposal~~ 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 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.

Mr. Burke: 5919
5131

Mr. McBurger

Determine if Electrostatic
Conversion Solution
AB Dick Part H-1067-1
(1) can go to sewer (2) or is A
HW or (3) is A HM

Betsy: Contact Mr. McBurger and
Determine if Above material is
is a HW, HM or an item
which can be discharged to sewer.
Do NO 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 Bantam
Plant. Might not have to
sample. Essentially we need to help them
develop an SOP for DISPOSAL
(EXACTLY the kind of
an assignment "New"
chemist should Handle)

80

52 JUGS

40 GALS

4 GALS/MONTH.

Betsy: Contact Mr. McLouryer and Determine if Above material is is a HW, HM or an item which can be discharged to sewer. Do NO recommend sewer disposal without Reviewing with Junior Johnson first. We will Need to answer in writing. Handle personally. I would recommend Contacting Lant DIU after you get all the info you can from Bantam plant. Might not have to sample. Essentially we need to help them develop an SOP for DISPOSAL

(EXACTLY the kind of an assignment "New" chemist should Handle)

80

52 JUGS

40 GALS

4 GALS / MONTH.

MATERIAL SAFETY DATA SHEET

(APPROVED BY THE U.S. DEPARTMENT OF LABOR AS - "essentially similar" to form OSHA-20 (former LSB-OSS-4)

FOR HAZARDOUS PRODUCTS USED IN PLACES OF EMPLOYMENT

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

NUFACTURER'S NAME (a) A.B.DICK COMPANY	EMERGENCY PHONE NO.: 24 HOURS (b) 312 - 647 - 8800
STREET ADDRESS (c) 5700 WEST TOUHY AVENUE — For latest data, consult manufacturer.	DATE THIS FORM WRITTEN (d) NAvember 13, 1984
CITY, STATE, ZIP CODE (e) CHICAGO, ILLINOIS 60648	SIGNATURE (f) Kenneth W. Pinter *Kenneth W. Pinter*

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 x 10^{-5} mg/l			

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

BOILING POINT (°F.)	> 212	6. SPECIFIC GRAVITY (H_2O = 1)	1.068
3. VAPOR PRESSURE (mmHgat 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. °F 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 ☐ CO_2 ☐ 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			16. CONDITIONS TO AVOID
	NORMAL CONDITIONS	OK	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			20. CONDITIONS TO AVOID
	MAY OCCUR		
	WILL NOT OCCUR	X	

(FRONT)

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

31. RESPIRATORY PROTECTION (Specify Type)

N.A.

32. PROTECTIVE CLOTHING

N.A.

33. EYE PROTECTION

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

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 * * * HAZARDOUS ITEM BASIC PUBLICATION * * *

N S N	FSCM	MGR	F P IND	PN IND	PART NUMBER/TRADE NAME	ACT CD	DATE	PAGE NO
6850-00-912-0919	17638	CX	D	A	4-1067,CONVERSION SOLUTION,ELECTROSTATIC		83318	1

* * * * GENERAL INFORMATION * * * *

PROPRIETARY NO: A.B. DICK CO.

MANUFACTURER

EMERGENCY TELE NO: 312-647-8800

ITEM NAME	UI BT	UI CONTAINER QTY	TYPE OF CONT	NET UNIT WT	MAG/MILGAUS	EXEMPTION NO
CONVERSION SOLUTION,ELECTROSTATEIC		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	T L V
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
ZC0110000	WATER 7732-18-5	88	N/A
1000586CA	CHELATING AGENT,CAS# 139-33-3	0.1	UNKNOWN

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

DOT SHIPPING NAME: N/A

CLASS: LABEL: DOT: WAT:

WATER SHIPPING NAME: N/A

CLASS: LABEL: UN NO: UN CLASS: COM GP: 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: NMAC:

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

NOT REGULATED FOR TRANSPORTATION

2 of 2

Conversion solution Electrostatic Cont

A12

N S N

50-00-922-0919

ACT CD DATE PAGE NR

84054 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
>212F/100C	0.60	COMPLETE	NONE	20	SEE HAZ INGRED	L1

LEL/PCT/	UEL/PCT/	SP GR	PCT VOLT BY VOL	EVAP RATE PER REFERENCE
N/A	JN/A	1.068	85	

APPEARANCE AND ODOR
GREEN LIQUID,NO ODOR

MET PROP WT-AMMO MEW LB

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
EXTINQUISH W. AGENT SUITABLE FOR SURROUNDING FIRE.

SPECIAL FIRE FIGHTING PROCEDURES
WEAR SELF-CNTND BRTHG APP IF INVOLRED 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 SWALLOW ED,SEE A DOCTOR.

TYPE OF RESPIRATORY PROTECTION
NONE

VENTILATION
NONE SPECIAL

EYE PROTECTION
SAFETY GLASSES

OTHER PROTECTIVE EQUIPMENT
NONE

HANDLING / STORAGE PRECAUTIONS
SOLUTION MAY FREEZE & SHOULD BE BROUGH T TO ROOM TEMP. & SHAKEN HARD BEFORE USING.

* * * * 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