

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

000009

Section 1 NAME AND PRODUCT 4-1014 & 4-1015 Blue Etch

MANUFACTURER'S NAME		EMERGENCY PHONE NO.: 24 HOURS
(a) A.B.DICK COMPANY		(b) 312-647-8800
STREET ADDRESS		DATE THIS FORM WRITTEN
(c) 5700 WEST TOUHY AVENUE		(d) December 12, 1986
CITY, STATE, ZIP CODE		SIGNATURE
(e) CHICAGO, ILLINOIS 60648		(f) <i>Kenneth W. Pinter</i> Kenneth W. Pinter
CHEMICAL NAME, TRADE NAME, AND SYNONYMS		
(g) None.		

HAZARD CLASSIFICATION FOR DEPARTMENT OF TRANSPORTATION (DOT)

Flammable Liquid Combustible Liquid Corrosive Material N.A.

DOT Shipping Name Not regulated. UN# N.A.

Section 2 HAZARDOUS INGREDIENTS	CAS Reg. No.	% Wt.	TLV (units)
1. Phosphoric Acid (Z-1)	7664-38-2	< 1.2	1mg./M ³ (TLV&PEL)
Propyl Alcohol (Z-1)	71-23-8	< 5	200 ppm (PEL)
			200 ppm-Skin (TLV)
Glycerin	56-81-5	20-25	TLV: 10mg./M ³ (MIST)
			PEL: None

Section 3 PHYSICAL DATA pH 5.7 FREEZING POINT (°F) 20

BOILING POINT (°F.)	> 212	6. SPECIFIC GRAVITY (H ₂ O = 1)	1.06
VAPOR PRESSURE (mmHg at 20°C)	Unknown	7. % VOLATILE BY VOLUME	75-80
4. VAPOR DENSITY (air=1)	Unknown	8. COLOR AND ODOR	Blue - Faint Alcohol
5. SOLUBILITY IN WATER	Complete	9. PHYSICAL STATE	Liquid

Section 4 FIRE AND EXPLOSION HAZARD DATA

10. FLASH POINT (AND METHOD USED)	11. FLAMMABLE LIMITS (STP)
None of T.O.C., T.C.C., C.O.C.	L.F.L. N.A. U.F.L. N.A.
12. EXTINGUISHING MEDIA:	
N/A <input type="checkbox"/> WATER FOG <input type="checkbox"/> FOAM <input type="checkbox"/> ALCOHOL FOAM <input type="checkbox"/> CO ₂ <input type="checkbox"/> DRY CHEMICAL <input type="checkbox"/> 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	Stable	16. CONDITIONS TO AVOID	None.
	FIRE CONDITIONS	Stable		
17. INCOMPATIBILITY (materials to avoid)	N/A <input type="checkbox"/> WATER <input type="checkbox"/> ACID <input type="checkbox"/> BASE <input type="checkbox"/> CORROSIVE <input type="checkbox"/> OXIDIZING MATERIAL <input type="checkbox"/> OTHER			

18. HAZARDOUS DECOMPOSITION PRODUCTS

Carbon monoxide and/or carbon dioxide.

19. HAZARDOUS POLYMERIZATION	MAY OCCUR	20. CONDITIONS TO AVOID
	WILL NOT OCCUR	

Material Safety Data Sheet - (continued)

Section 6 HEALTH HAZARD DATA Primary Route of Entry: Inhalation, skin.

21. ORAL INGESTION

Slight toxicity. May cause dizziness and headaches.

22. EYE CONTACT

May cause eye irritation.

23. SKIN CONTACT

No known problems.

24. Carcinogens:

None present.

25. INHALATION (TLV OR SUGGESTED CONTROL FIGURE)

May cause dizziness and headaches. Phosphoric Acid TLV & PEL: 1 mg./M³.

26. EFFECTS OF OVEREXPOSURE

May cause eye irritation and dizziness and headaches.

27. FIRST AID PROCEDURES

Ingestion: Induce vomiting. Contact a physician.

Eye: Flush with water for 15 minutes. Contact a physician if irritation persists.

Skin: Wash with soap and water.

Inhalation: Remove to fresh air.

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

In accordance with local, state and federal regulations for water solutions.

Section 8 SPECIAL PROTECTION INFORMATION

30. VENTILATION	LOCAL EXHAUST Not necessary.	SPECIAL N.A.
	MECHANICAL (General) Acceptable.	OTHER N.A.

31. RESPIRATORY PROTECTION (Specify Type)

None required when used as intended.

32. PROTECTIVE CLOTHING

None required when used as intended.

33. EYE PROTECTION

<input type="checkbox"/> NOT NORMALLY NECESSARY	<input type="checkbox"/> SAFETY GLASSES WITHOUT SIDE SHIELDS	<input type="checkbox"/> CHEMICAL WORKERS GOGGLES
<input type="checkbox"/> GAS TIGHT GOGGLES OR EQUIVALENT	<input checked="" type="checkbox"/> SAFETY GLASSES WITH SIDE SHIELDS	
<input type="checkbox"/> OTHER		

34. OTHER PROTECTIVE EQUIPMENT

None required when used as intended.

Section 9 SPECIAL PRECAUTIONS OR OTHER COMMENTS

35. PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Solution will freeze, but will be satisfactory for use after thawing.

36. OTHER PRECAUTIONS

None.