

MATERIAL SAFETY DATA SHEET

550301

(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 4-1014 & 4-1015 Blue Etch EMERGENCY PHONE NO.: 24 HOURS
 MANUFACTURER'S NAME (b) 312 - 647 - 8800
 (a) A.B.DICK COMPANY
 STREET ADDRESS
 (c) 5700 WEST TOUHY AVENUE
 CITY, STATE, ZIP CODE
 (e) CHICAGO, ILLINOIS 60648
 CHEMICAL NAME, TRADE NAME, AND SYNONYMS
 (f) None.
 SIGNATURE (f) Kenneth W. Pinter
 DATE THIS FORM WRITTEN (d) December 12, 1986

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.	% WL.	TLV (units)
1. Phosphoric Acid (Z-1)	7664-38-2	< 1.2	1mg./M ³ (TLVPEL) 200 ppm (PEL) 200 ppm-Skin (TLV)
Propyl Alcohol (Z-1)	71-23-8	5	Blue - Faint Alcohol Liquid
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) U.F.L. N.A.
 None of T.O.C., T.C.C., C.O.C. L.F.L. N.A.

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 Stable 16. CONDITIONS TO AVOID None.
 FIRE CONDITIONS Stable

17. INCOMPATIBILITY (sterils to avoid)

N/A WATER ACID BASE CORROSIVE OXIDIZING MATERIAL
 OTHER

18. HAZARDOUS DECOMPOSITION PRODUCTS

Carbon monoxide and/or carbon dioxide.

19. HAZARDOUS POLYMERIZATION

MAY OCCUR	
WILL NOT OCCUR	X

20. CONDITIONS TO AVOID None.

(FRONT)

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**

	LOCAL EXHAUST	SPECIAL
30. VENTILATION	Not necessary.	N.A.
	MECHANICAL (General)	OTHER
	Acceptable.	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**
 NOT NORMALLY NECESSARY
 GAS TIGHT GOGGLES OR EQUIVALENT
 SAFETY GLASSES WITHOUT SIDE SHIELDS
 SAFETY GLASSES WITH SIDE SHIELDS
 OTHER _____
 CHEMICAL WORKERS GOGGLES

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.