MATERIAL SAFETY DATA SHEET

4-1014 & 4-1015 BLUE ETCH

Revision Date:5/1/13

Section I - Product Identification

Manufacturer's Name Mark Andy, Inc	Emergency Phone Number (24 Hours) CHEMTREC @ (800) 424-9300
Street Address 18081 Chesterfield Airport Road	MSDS access online at: https://shop.markandy.com/msds
City,State,Zip Code Chesterfield, MO 63005 General Phone: 636-532-4433	Customer Service: (US) 800-225-4835 (CAN) 800-387-3143 Date Prepared: February 2, 1995
Product Use: OFFSET PRINTING.	Prepared By: Kenneth W. Pinter

Chemical Name, Trade Name, Synonyms: NONE.

HMIS RATING

1 - Health 1 - Flammability 0 - Reactivity A - Personal Protection

Section II - Hazardous Ingredients

Hazardous Components	CAS NO.	% WT.	Exposure Limits OSHA PEL	ACGIH TLV	OTHER
PHOSPHORIC ACID	7664-38-2	< 1.2	1 mg/M3.	1 mg/M3.	
PROPYL ALCOHOL	71-23-8	< 5	200 PPM.	200 PPM(SKIN).	
GLYCERIN	56-81-5	20-25	10 mg/KG.	10 mg/M3(MIST).	

Section III - Physical Data

Boiling POINT(F): > 212	pH: 5.7
Vapor Pressure(mm Hg): UNKNOWN	Freezing Point(F): 20
Vapor Density (AIR = 1): UNKNOWN	VOC: 2.4 LBS/GAL
Specific Gravity (H2O=1): 1.06	Color And Odor: BLUE / FAINT ALCOHOL
Odor Threshold: N.D.	Physical State: LIQUID

Evaporation Rate (Butyl Acetate = 1): N.D.

Solubility in Water: COMPLETE.

Section IV - Fire and Explosion Hazard Data

FLASH POINT (METHOD USED): NONE.

Flammable Limits:
LEL: N.A. UEL: N.A.

Auto-ignition Temperature: N.A.

Extinguishing Media: N.A.

Special Fire Fighting Procedures: N.A.

Unusual Fire And Explosion Hazards: N.A.

Section V - Reactivity Data

Stability Unstable : Stable : X

Conditions to Avoid: NONE.

Incompatibility (Materials to Avoid): N.A.

Hazardous Decomposition Products: CARBON MONOXIDE AND/OR CARBON DIOXIDE.

Hazardous Polymerization	May Occur: Will Not Occur: X	Conditions to Avoid: NONE.

Section VI - Health Hazard Data (Acute and Chronic)

Primary Route(s) of Entry: INHALATION, SKIN

Oral Ingestion: SLIGHT TOXICITY. MAY CAUSE DIZZINESS AND HEADACHES.

Eye Contact: MAY CAUSE EYE IRRITATION.

Skin Contact: NO KNOWN PROBLEMS.

Inhalation: MAY CAUSE HEADACHES AND DIZZINESS

Effects of Overexposure: MAY CAUSE EYE IRRITATION, HEADACHES AND DIZZINESS.

Medical Conditions Generally Aggravated by Exposure: N.D.

Carcinogenicity: NOT KNOWN TO BE CARCINOGENIC.

Mutagenicity: NOT KNOWN TO BE MUTAGENIC.

Teratogenicity: NOT KNOWN TO BE TERATOGENIC.

Reproductive Toxicity: NOT KNOWN TO HAVE REPRODUCTIVE TOXICITY.

FIRST AID PROCEDURES

Ingestion: INDUCE VOMITING. CONSULT A PHYSICIAN.

Eye: FLUSH WITH WATER FOR 15 MINUTES. CALL A PHYSICIAN IF IRRITATION PERSISTS.

Skin: WASH WITH SOAP AND WATER.

Inhalation: REMOVE TO FRESH AIR.

Section VII - Toxicology Information

Ingredient	Inhalation LC50	Oral LD50(RATS)	Dermal LD50(RABBITS)
PHOSPHORIC ACID	N.D.	1530 mg/KG	2750 mg/KG
PROPYL ALCOHOL	8000 PPM	5.4 g/KG	6.73 g/KG
GLYCERIN	N.D.	12,600 mg/KG	N.D.

Section VIII - Spill or Leak Procedure

Steps to be taken in case material is released or spilled:

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WIPE UP WITH DRY OR DAMP CLOTH.

Disposal Method: IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS FOR WATER SOLUTIONS.

Section IX - Special Protection Information

Ventilation Local Exhaust: NOT NECESSARY. Special: N.A.
Mechanical(General): ACCEPTABLE. Other: N.A.

Respiratory Protection: NONE REQUIRED WHEN USED AS INTENDED.

Protective Clothing: NONE REQUIRED WHEN USED AS INTENDED.

Eye Protection: SAFETY GLASSES.

Other Protective Equipment: NONE REQUIRED WHEN USED AS INTENDED.

Section X - Special Precautions

Precautions to be taken in Handling and Storing: SOULTION WILL FREEZE, BUT WILL BE SATISFACTORY FOR USE AFTER THAWING.

Other Precautions: NONE.

Section XI - Transportation Information

Hazard Class: N.A.
DOT Proper Shipping Name: NOT REGULATED.

Section XII - Regulatory Information

CERCLA/SUPERFUND,40 CFR 117,302: THIS PRODUCT CONTAINS PHOSPHORIC ACID A REPORTABLE QUANTITY (RQ) SUBSTANCE AND IF 416,000 POUNDS OF PRODUCT ARE RELEASED THE NATIONAL RESPONCE CENTER, WASHINGTON D.C. MUST BE NOTIFIED. (1-800-424-8802).

SARA(TITLE III) - Sections 302, 311, 312, and 313:

Section 302 Extremely Hazardous Substances (40 CFR 355): THIS PRODUCT DOES NOT CONTAIN ANY INGREDIENTS LISTED AS AN EXTREMELY HAZARDOUS SUBSTANCE.

Section 311 and 312 MSDS Submission and Inventory Reporting (40 CFR 370): THIS PRODUCT CONTAINS PHOSPHORIC ACID, PROPYL ALCOHOL AND GLYCERIN THAT REQUIRE REPORTING UNDER 311 & 312 IF STORED IN LARGE ENOUGH QUANTITIES.

Section 313 Toxic Chemical Release Reporting (40 CFR 372): THIS PRODUCT CONTAINS PHOSPHORIC ACID WHICH MAY REQUIRE REPORTING UNDER SECTION 313.

TOXIC SUBSTANCES CONTROL ACT (TSCA):
This product complies with rules and regulations of TSCA.

California Proposition 65: THIS PRODUCT DOES NOT CONTAIN ANY MATERIAL, THAT CURRENTLY LISTED BY THE STATE OF CALIFORNIA UNDER PROPOSITION 65.

Section XIII - Addition Information

NEW JERSEY/PENNSYLVANIA RIGHT-TO-KNOW INFORMATION: WATER(7732-18-5), PHOSPHORIC ACID(7664-38-2), PROPYL ALCOHOL(71-23-8), GLYCERINE(56-81-5), SODIUM PHOSPHATE(7558-79-4).

N.D. = No Data N.A. = Not Applicable
The information herein given in good faith but no warranty, express or implied, is made.