

**MATERIAL SAFETY DATA SHEET**

4-1014 & 4-1015 BLUE ETCH

Revision Date:1/1/06

**Section I - Product Identification**

Manufacturer's Name Presstek	Emergency Phone Number (24 Hours)  CHEMTREC @ (800)424-9300
Street Address 55 Executive Drive	MSDS Request Phone Number:  1-603-595-7000
City,State,Zip Code Hudson, NH 03051	For MSDS via Fax: 1-800-995-0088  Date Prepared: February 2, 1995
Product Use: OFFSET PRINTING PROCESS.	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 :	Conditions to Avoid: NONE.
Stable : X	

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Incompatibility (Materials to Avoid): N.A.

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

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

**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 | N.D.  
Aggravated by Exposure |

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	Oral	Dermal
	LC50	LD50 (RATS)	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:  
WIPE UP WITH DRY OR DAMP CLOTH.

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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.

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Respiratory Protection: NONE REQUIRED WHEN USED AS INTENDED.  
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Protective Clothing: NONE REQUIRED WHEN USED AS INTENDED.  
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Eye Protection: SAFETY GLASSES.  
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Other Protective Equipment: NONE REQUIRED WHEN USED AS INTENDED.

**Section X - Special Precautions**

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

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Other Precautions: NONE.

**Section XI - Transportation Information**

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

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**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 RESPONSE 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.

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**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).

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