



MATERIAL SAFETY DATA SHEET

METAL ETCH

Page: 3

===== SECTION VIII - CONTROL MEASURES =====

RESPIRATORY PROTECTION

NIOSH-APPROVED RESPIRATOR TO CONTROL TLV.

VENTILATION

LOCAL EXHAUST IS ACCEPTABLE BUT, MECHANICAL EXHAUST IS RECOMMENDED.

PROTECTIVE GLOVES

LATEX RUBBER.

EYE PROTECTION

SAFETY GLASSES/GOGGLES.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT

SAFETY SHOWER/ EYEWASH.

WORK/HYGIENIC PRACTICES

DO NOT EAT, DRINK OR SMOKE AROUND PRODUCT.

===== SECTION IX - DISCLAIMER =====

THIS INFORMATION IS TO THE BEST OF OUR KNOWLEDGE AND BELIEF ACCURATE AS OF THE DATE COMPILED. HOWEVER, NO REPRESENTATION OR WARRANTY IS MADE AS TO ITS ACCURACY, RELIABILITY OR COMPLETENESS.

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HAZARDOUS DECOMPOSITION OR BYPRODUCTS

MAY LIBERATE HYDROGEN GAS OR PHOSPHOROUS OXIDES.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

===== **SECTION VI - HEALTH HAZARD DATA** =====

INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

IRRITATION TO RESPIRATORY TRACT.

SKIN AND EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE

MAY CAUSE BURNS TO SKIN AND/OR EYES.

SKIN ABSORPTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

BURNING, DRYNESS, DERMATITIS.

INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

BURNING OF MUCOUS MEMBRANES.

HEALTH HAZARDS (ACUTE AND CHRONIC)

IRRITATION TO RESPIRATORY TRACT. BURNS TO SKIN AND/OR MUCOUS MEMBRANES.

CARCINOGENICITY: NTP CARCINOGEN: NO IARC MONOGRAPHS: NO OSHA REGULATED: NO

THIS PRODUCT IS NOT LISTED IN THE NTP, IARC OR OSHA LISTS FOR CARCINOGENICITY.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE

SKIN CONDITIONS MAY BE AGGRAVATED.

EMERGENCY AND FIRST AID PROCEDURES

SKIN: FLUSH WITH WATER FOR AT LEAST 15 MINUTES. SEEK MEDICAL ATTENTION IF IRRITATION PERSISTS. EYES: FLUSH WITH WATER FOR AT LEAST 15 MINUTES. SEEK MEDICAL ATTENTION IF IRRITATION PERSISTS. INHALATION: REMOVE VICTIM TO FRESH AIR. RESTORE BREATHING IF NECESSARY. REMEMBER TO NEVER GIVE ANYTHING TO AN UNCONCIOUS PERSON. INGESTION: DO NOT INDUCE VOMITING. SEEK IMMEDIATE MEDICAL ATTENTION.

===== **SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE** =====

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

CONTAIN AND NEUTRALIZE WITH SODA ASH. KEEP OUT OF SEWERS AND WATER SOURCES. ABSORB WITH INERT MATERIAL.

WASTE DISPOSAL METHOD

DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

KEEP IN A VENTILATED AREA. STORE IN AN UPRIGHT POSITION. STORE AT TEMPERATURES FROM 70-80 DEG. F.

OTHER PRECAUTIONS

MATERIAL IS CORROSIVE. OBSERVE ALL PRECAUTIONS EVEN WHEN CONTAINER IS EMPTY.

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METAL ETCH

Page: 1

PRODUCT NAME: METAL ETCH
PRODUCT CODE: 0700-0703

HMIS CODES: H F R P
2 * 1 0 C

SECTION I - MANUFACTURER IDENTIFICATION

MANUFACTURER'S NAME : JASCO Chemical Corp.
ADDRESS : 1008 N. Fuller St.
Santa Ana, CA. 92701

EMERGENCY PHONE : 800-424-9300
INFORMATION PHONE : (714) 547-6951
DATE PRINTED : 6/01
NAME OF PREPARER : RE

SECTION II - HAZARDOUS INGREDIENTS/SARA III INFORMATION

REPORTABLE COMPONENTS	CAS NUMBER	VAPOR PRESSURE		WEIGHT
		mm Hg @ TEMP		PERCENT
PHOSPHORIC ACID 75%; ORTHOPHOSPHORIC ACID OSHA PEL: 1 MG/M3, ACGIH TLV: 1 MG/M3, OTHER: N/A	7664-38-2	15	104	40
ETHYLENE GLYCOL BUTYL ETHER OSHA PEL: 50 PPM, ACGIH TLV: 25 PPM, OTHER: N/A	111-76-2	.9	77	5

*** No toxic chemical (s) subject to the reporting requirements of section 313 of Title III of 40 CFR 372 are present.***

WARNING: THIS PRODUCT CONTAINS TRACE AMOUNTS OF ETHYLENE OXIDE WHICH IS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER AND/OR REPRODUCTIVE TOXICITY.

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING RANGE: 206 DEG. F
VAPOR DENSITY: HEAVIER THAN AIR
COATING V.O.C.: 189.6 g/L
SOLUBILITY IN WATER: COMPLETE
APPEARANCE AND ODOR: VISCOUS, WATER-WHITE LIQUID; ACIDIC ODOR.
SPECIFIC GRAVITY (H2O=1) : 1.17
EVAPORATION RATE: SLOWER THAN ETHER

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: NONE
FLAMMABLE LIMITS IN AIR BY VOLUME- LOWER: 1.1
METHOD USED: N/A
UPPER: 10.6

EXTINGUISHING MEDIA: CO2, DRY CHEMICAL

SPECIAL FIREFIGHTING PROCEDURES

USE WATER SPRAY TO COOL CONTAINERS. FIREFIGHTERS SHOULD WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING WHEN FIGHTING FIRES.

UNUSUAL FIRE AND EXPLOSION HAZARDS

HYDROGEN GAS MAY BE LIBERATED BY CONTACT WITH SOME MATERIAL

SECTION V - REACTIVITY DATA

STABILITY: STABLE
CONDITIONS TO AVOID

NONE KNOWN.

INCOMPATIBILITY (MATERIALS TO AVOID)

ALKALIS, OXIDIZING OR REDUCING AGENTS.