

SECTION 1: IDENTIFICATION OF PRODUCT

FORMULA: Proprietary mixture of strong acids and viscosity builders.  
SYNONYM OR CROSS REFERENCE: ETCH-IT METAL ETCHING GEL

132-5172

SECTION 2: HAZARDOUS INGREDIENTS

MATERIAL: Strong mineral acids greater than 10%.  
NATURE OF HAZARD: Irritant to eyes. Irritating vapors. Can cause irritation to skin on prolonged contact.

SECTION 3: PHYSICAL DATA

MELTING POINT: °F: N/A  
BOILING POINT: °F: Approx. 212 F  
VAPOR PRESSURE: (mm Hg): N/A  
SPECIFIC GRAVITY: (H2O=1): Approx. 1.2  
VAPOR DENSITY: (Air =1): Greater than 1.  
WATER SOLUBILITY: Gel disperses.  
PH OF SOLUTION: 1 - 2  
PERCENT VOLATILE: N/A  
EVAPORATION RATE: (BuAc =1): N/A  
APPEARANCE: Pale yellow, translucent, stiff gel. Sharp, characteristic odor.

SECTION 4: FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (method used): Material is non-flammable.  
FLAMMABLE LIMITS: N/A

FIRE EXTINGUISHING MEDIA: As appropriate for other combustibles in the area.

SPECIAL FIRE FIGHTING PROCEDURES: None for lab quantities.

UNUSUAL FIRE AND EXPLOSION HAZARD: Corrosive and irritating fumes may be liberated in a fire.

SECTION 5: HEALTH HAZARD

THRESHOLD LIMIT VALUE: None established by OSHA or ACGIH for this mixture.

HEALTH HAZARDS: Effects of overexposure to product.  
Skin: Contact can cause irritation and reddening.

Eyes: Direct contact will cause severe irritation.

Inhalation: Excessive contact with fumes in an area of poor ventilation can cause respiratory tract irritation.

Ingestion: Can cause irritation of gastrointestinal mucosa.

FIRST AID PROCEDURES:  
Skin: Wash well with soap and water.

Eyes: Flush with large amounts of water, lifting upper and lower lids for 15 minutes. Get medical attention.

Inhalation: If affected, remove to fresh air. If irritation develops or persists contact a physician.

Ingestion: Unlikely in normal lab use. If it occurs, do not induce vomiting. Give milk, water or milk of magnesia and get medical attention.

CARCINOGENICITY: No ingredients identified as a carcinogen or potential carcinogen by NTP, IARC or OSHA.

**ad**  
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MATERIAL  
SAFETY  
DATA  
SHEET

NFPA RATINGS  
HEALTH HAZARD: 1  
FIRE & EXPLOSION: 0  
REACTIVITY: 0  
PROTECTION: B

SECTION 6: REACTIVITY DATA

STABILITY: No abrupt decomposition.

CONDITIONS TO AVOID: Heat or direct sunlight

INCOMPATIBILITY (MATERIALS TO AVOID): Active metals, bases, reducing agents can cause rapid reaction.

HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition will liberate irritating acid fumes.

HAZARDOUS POLYMERIZATION: Will not occur.

SECTION 7: SPILL AND DISPOSAL PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:  
Spill is unlikely due to small package size and gel form. However, if it occurs, neutralize the gel with enclosed DIP-1T neutralizer or slaked lime mixture. Use approved personal protection.

WASTE DISPOSAL METHOD:

Sponge mixture up and flush thoroughly down sink drain with excess water.

SECTION 8: PROTECTION INFORMATION

VENTILATION: Mechanical (general) acceptable.

SKIN: Latex rubber gloves, if irritation occurs.

EYES: Safety glasses or goggles.

RESPIRATORY: None required in normal use.

OTHER PROTECTIVE EQUIPMENT: Eye-wash station.

SECTION 9: HANDLING AND STORAGE (lab quantities)

Keep containers well closed. Store in cool, dry, well ventilated area. For laboratory or office use only. Keep out of reach of children. Avoid heat and direct sunlight. Normal precautions of laboratory good housekeeping practices should be followed.

SECTION 10: MISCELLANEOUS INFORMATION

Read instruction before using. Squeeze out and discard any thin liquid before using. NO SHIPPING RESTRICTIONS, due to small quantity and nature of package.

Revision Date: 3/00 Information Furnished By: L. D. Hochhauser  
Product Development Mgr.

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