

# Material Safety Data Sheet

**Identity: MET-ETCH**

## SECTION I

Manufacturer: Gresco Products, Inc.  
Address: 13391 Murphy Road  
Emergency Telephone Number: None  
Telephone Number for Information: (281) 261-1811  
Date Prepared: July 26, 2004

## SECTION II & III - Hazardous Ingredients & Physical/Chemical Characteristics

Hazardous Components (As Defined by CFR 1910.1200): Nitric Acid + Hydrochloric Acid  
Exposure Limits: OSHA PEL = Approx. 7mg/M<sup>3</sup>  
Boiling Point: 246°F  
Vapor Pressure (mm Hg.): 9-10 @ 25°C  
Vapor Density (Air = 1): 1  
Specific Gravity (water = 1): 1.8  
Melting Point: Not Known  
Evaporation Rate (Butyl Acetate = 1): less than 1  
Solubility in Water: soluble  
Appearance and Odor: Light yellow - slight chlorine odor

## SECTION IV - Fire and Explosion Data

Flash Point (Method Used): Will not burn  
Flammable Limits: None  
Extinguishing Media: None  
Special Fire Fighting Procedures: None  
Unusual Fire and Explosion Hazards: None

## SECTION V - Reactivity Data

Stability: Unstable - Release toxic gases with heat.  
Incompatibility (Materials to Avoid): Corrosive to all metals, re-acts with organics and oxidizable inorganics  
Hazardous Decomposition or By Products: Fumes contain hydrogen, nitrogen and chlorine gases.  
Hazardous Polymerization: Not known to occur

## SECTION VI - Health Hazard Data

**Routes of Entry:**  
inhalation?: yes  
skin?: yes  
ingestion?: yes  
Eyes?: yes  
Health Hazards (Acute and Chronic): Gel and fumes may cause burns. Breathing fumes may cause lung damage. Will burn Eyes and skin. Will burn mouth and mucous membranes if ingested.  
Carcinogenicity: Not known to be carcinogenic  
Signs and Symptoms of Exposure: Burning of eyes and skin indicates exposure.  
Medical Conditions Aggravated by Exposure: Pre-existing diseases of the skin, eyes, or lungs.  
Emergency and First Aid Procedures: Eyes: Flush with water for 15 mins.; consult a physician.  
Ingestion: do not induce vomiting, give large amount of milk of magnesia, milk, magnesium oxide or olive oil. Call physician., Skin: Flush with water, consult physician if needed.

## SECTION VII - Precautions for Safe Handling and Use

Steps to Be Taken in Case Material is Released or Spilled: Flush with water, apply neutralizer  
Waste Disposal Method: Neutralize gel with lime or soda ash and dispose of in accordance with federal, state and local regulations.  
Precautions to Be Taken in Handling and Storing: Store in a cool area below 80°F. Do not store in direct sunlight.  
Other Precautions: None

## SECTION VIII - Control Measures

Respiratory Protection: Not needed for normal use.  
Ventilation: Should be used in ventilated area or under exhaust hood.  
Protective Gloves: Rubber or plastic gloves are recommended.  
Eye Protection: Protective glasses must be worn.  
Other Protective Clothing or Equipment: None Recommended  
Work/Hygienic Practices: None Recommended