

MATERIAL SAFETY DATA SHEET

Effective Date: January 2015

PRODUCT IDENTIFIER GE 1
 TRADE NAME Etch/Engraving Crème
 CHEMICAL FAMILY Corrosive

HAZARDOUS INGREDIENTS

	Hazardous Ingredients Percent	ACGIH TLV	PEL	Hazardous CAS Number
Ammonium Bifluoride	30-35%	3ppm	2.5mg/m3	1341-49-7 6153-56-3
Oxalic Acid Dihydrate	10-12%			

PHYSICAL DATA

Boling Point N/A
 Freezing Point N/A
 Volatility/Vol {%} N/A
 Melting Point N/A
 Vapor Density {air=1} N/A
 Solubility in H₂O The thickeners in the crème do not allow the product to be soluble, but the product can be diluted with water
 Odor and Appearance An off-white to tan colored cream with the consistency of household glue and mild ammonia-like odor
 Specific Gravity H₂O=1 1.43
 Evaporation Rate N/D
 pH 5.2

FIRE AND EXPLOSION HAZARD DATA

Flashpoint and method of Determination N/A
 Lower Explosion Limit {% by vol} N/A
 Upper Explosion Limit {% by vol} N/A
 Means of Extinction for fire Non-flammable. No special fire fighting procedures. No special extinguishing media required. Excessive heat may release toxic Corrosive gases.
 Explosion Data N/A

FIRST AID MEASURES- Primary Routes of Entry:

Eyes, skin, ingestion, inhalation. Avoid contact with mucous membranes and open cuts on skin.
 WARNING Harmful if swallowed. May cause burns which may not be immediately painful or visible.

First Aid Measures

EYES: If eye contact occurs, immediately flush eyes with plenty of water for 15 minutes, holding eyelids apart to insure flushing of entire eye surface. Seek medical attention if irritation persists.
 INGESTION: Drink 1-2 glasses of milk or water.
 SKIN: Flush with water as soon as possible after contact with skin if irritation is apparent. Always wash skin after contact with crème. Wash skin well with soap and water and apply soothing ointment.
 INHALATION: Excessive inhalation due to long term and close proximity to material can cause irritation to the upper respiratory tract.
 QUESTIONS 1-800.574.4155

ACCIDENTAL RELEASE MEASURES AND DISPOSAL INFORMATION

Contain spills immediately with inert materials (e.g. sand, earth). Can be neutralized with lime. Be sure to comply with all local, County, State and Federal regulations.

HANDLING AND STORAGE Environmental Procedures and Safe Handling Instructions

Keep out of reach of children. Store only in plastic containers such as polyethylene, polypropylene or polyvinyl Chloride at temperatures between 65 and 85 degrees Fahrenheit {18-30 Celsius}.

EXPOSURE CONTROL/PERSONAL PROTECTION Special Protection Equipment

Ventilation: local exhaust, normal ventilation. Wear impermeable protective gloves. Wear goggles when there is a danger of splattering (i.e. cleanup and washing down of spills). Wear a plastic apron or work-type clothing. Wash hands and exposed skin after contact. Use a NIOSH-certified mask for dust or mists.

STABILITY AND REACTIVITY

Reactivity data	Crème will gel with age
Hazardous Polymerization Products	None
Stability	Stable, avoid excessive heating, strong acids and alkalis
Stable Conditions to Avoid	None
Incompatibility {materials to Avoid}	None
Hazardous Decomposition Products	None

TOXICOLGY INFORMATION *Symptoms of Overexposure*

Signs/Symptoms of Overexposure:

Could irritate sinuses if exposed for an extended period of time. A fume-type respirator would be recommended under these conditions. In case of contact with eyes or skin, flush well with water. Extremely toxic if taken internally. If swallowed, drink one or two glasses of milk or water. Seek medical attention immediately.

Effects/Symptoms of Acute Overexposure:

Skin irritant. Eye irritant. Harmful or fatal if swallowed. May be harmful by breathing dusts or mists. Contact may result in blistering or ulcers of skin. Contact may result in severe eye pain and impairment of vision.

Effects/Symptoms of Chronic Exposure:

Exposure may result in damage to bones and ligaments. Chronic exposure may result in bone changes associated with joint stiffness.

No known Carcinogenicity. Not known to aggravate any pre-existing medical condition.

REGULATORY INFORMATION

U.S. FEDERAL REGULATORY INFORMATION

SARA 392 Threshold Planning Quantity Not Applicable

SARA 304 Reportable Quantity Not Applicable

SARA TITLE III – Section 31 1/312 Hazardous Classes

- Immediate/Acute Health Effects YES
- Delayed/Chronic Health Effects YES
- Sudden Release of Pressure Hazard NO
- Reactivity Hazard NO

EPA/TSCA inventory. The components of this product are listed on the EPA/TSCA inventory of chemicals.

SARA TITLE III – Section 313 Supplier Notification:

The following chemicals are subject to the reporting requirements of Section 313 of TITLE III of the Superfund Amendments and reauthorization act of 1986 and 40 CFR Part 372 n/a.

Comprehensive Environmental Response, Compensation and Liability Act (CERCLA). No chemicals in this product are subject to the reporting requirements of CERCLA Section 101 {14}FO. When this product is used in a mixture, or as an ingredient to another product, or in a manufacturing operation, the petroleum exclusion may terminate and an accidental spill may require reporting to the National Response Center.

CANADIAN REGULATORY INFORMATION.

The components of this product are listed on the Canadian {DSL} Domestic substances list.

EUROPEAN {ECC} REGULATORY INFORMATION.

The components of this product are listed on the European Inventory of existing commercial substances {EINECS #25-149-8}.

TRANSPORTATION INFORMATION

Proper Shipping Name:

Ammonium Hydrogen difluoride Solution		HMIS HEALTH	3
Hazard Class	8	HMIS FLAMMABILITY	1
DOT Identification Number	UN2817	HMIS REACTIVITY	0
DOT Proper Shipping Label	Corrosive	HMIS PERSONAL PROTECTION	G

Note: In quantities of inner packing of less than 1.3 gallons, the contained can be marked as ORM-D.

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