

MATERIAL SAFETY DATA SHEET

SECTION I

PRODUCT TRADE NAME: ETCHALL® ETCHING CREAM

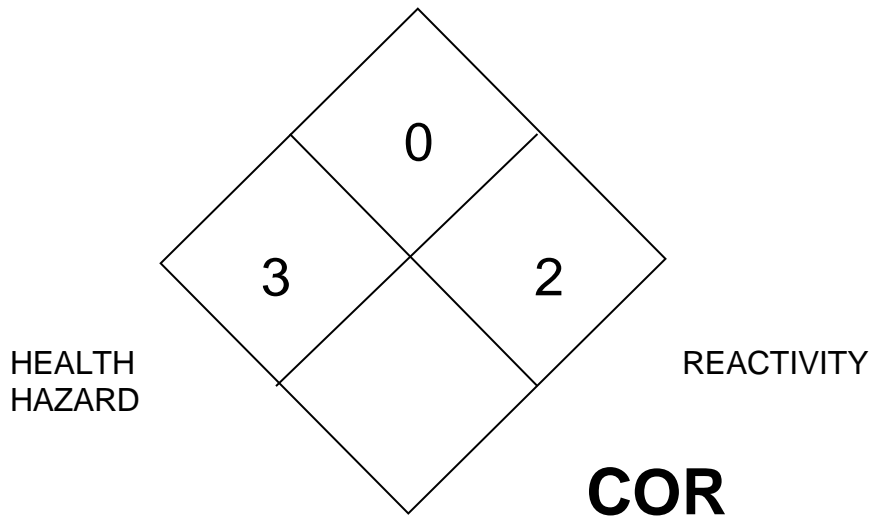
Chemical Family: N/A
 Formula: Proprietary
 Product #: 3227-CREAM

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HMIS Rating

FIRE HAZARD



Health Hazard:	Fire Hazard: (Flash Point)	Reactivity:	Specific Hazard:
0 - Normal Material 1 - Slightly Hazardous	0 - Will Not Burn 1 - Above 200°F	0 - Stable 1 - Unstable if Heated	Oxidizer OXY Acid ACID

2 - Hazardous 3 - Extreme Danger 4 - Deadly	2 - Below 200°F 3 - Below 100°F 4 - Below 73°F	2 - Violent Chemical Change 3 - Shock and Heat May Detonate 4 - Explosive	Alkali ALK Corrosive COR
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SECTION II - HAZARDOUS INGREDIENTS

Hazardous Ingredients	Percent:	Threshold Limit Value: (Values expressed as time-weighted average of airborne concentration)
Name (CAS #)		
Ammonium Bifluoride (CAS # 1341-49-7)	<25%	3 PPM as F, 25 PPM as NH ₃ (ACGIH TLV) 2.5 mg/m ₃ as F, 35 PPM as NH ₃ (OSHA PEL)

SECTION III - PHYSICAL PROPERTY DATA

Form: Liquid with consistency of household glue
Color: Off-White to tan
Odor: Mild, ammonia-like
pH: 2-3
Solubility in Water: Thickeners in cream do not allow the product to be soluble; product can be diluted with water
Specific Gravity (Water = 1): 1.43
Boiling Point: N/A
Vapor Pressure: N/A
Vapor Density (Air = 1): N/A
Evaporation Rate (BuAc = 1): N/A

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used): N/A

Flammable Limits: Lower: N/A Upper: N/A

Extinguishing Media: No special extinguishing media required

Special Fire Fighting Procedures: Non-flammable. No special fire fighting procedures required.

Unusual Fire and Explosion Hazards: Excessive heat may release toxic corrosive gases.

SECTION V - HEALTH HAZARD DATA

DANGER: Harmful if swallowed. May cause burns, which may not be immediately painful or visible.

Effects of Overexposure:

EFFECTS AND 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 AND SYMPTOMS OF CHRONIC EXPOSURE: Exposure may result in damage to bones and ligaments. Chronic exposure may result in bone changes with associated joint stiffness.

NO KNOWN CARCINOGENICITY. NOT KNOWN TO AGGRAVATE ANY PRE-EXISTING MEDICAL CONDITIONS.

SUPPLEMENTAL HEALTH INFORMATION: N/A

Emergency First Aid Procedures:

PRIMARY ROUTES OF ENTRY: **Eyes, Skin, Ingestion, Inhalation.** Avoid contact with mucous membranes and open cuts on skin. If there are no open cuts, cream will cause no harm to skin if it is washed off with soap and water within one minute.

IN EYES: If eye contact occurs, immediately flush eyes with plenty of water for 15 minutes, holding eyelids apart to ensure flushing of entire eye surface. Seek medical attention if irritation persists.

ON SKIN: Flush with water as soon as possible after contact with skin if irritation is apparent. Always wash skin after contact with cream. Wash skin well with soap and water and apply a soothing ointment like Neosporin or Polysporin.

INHALATION: Excessive inhalation due to long term and close proximity to material can cause irritation to the upper respiratory tract.

INGESTION: Drink 1-2 glasses of milk or water.

SECTION VI - PERSONAL PROTECTION INFORMATION

Respiratory Protection: Use a NIOSH-certified mask for dusts or mists.

Ventilation: Local exhaust, normal ventilation.

Protective Gloves: Wear impermeable protective gloves.

Eye Protection: Wear goggles when there is danger of splattering (i.e. cleanup and washing down of spills)

Other Protective Equipment: Wear a plastic apron or work-type clothing. Wash hands and exposed skin after contact.

SECTION VII - REACTIVITY DATA

Cream will gel with age.

Stability Data: Stable, avoid excessive heating, strong acids, and alkalis

Conditions to Avoid: None

Incompatibility (Materials to Avoid): None

Hazardous Decomposition Products: None

Hazardous Polymerization: None

SECTION VIII - SPILL OR LEAK PROCEDURES

Steps To Be Taken If Released or Spilled: No special spill procedures required.

Waste Disposal Method: A moderate amount of product can be flushed down sewer with plenty of water. Flush with water or neutralize with lime. If a large quantity is being disposed of, comply with all federal, state, and local regulations.

SECTION IX - SPECIAL PRECAUTIONS

Precautions To Be Taken In Handling and Storage: Keep product 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 degrees to 30 degrees Celsius). Crystals will form

in product at temperatures below 65 degrees Fahrenheit (18 degrees Celsius), but will dissolve when product temperature is raised above 65 degrees Fahrenheit (18 degrees Celsius).

Other Precautions: N/A

SECTION X - SHIPPING INFORMATION

Proper Shipping Name: Ammonium Bifluoride Solution

D.O.T. Classification: UN2817, 8, PGII

D.O.T. Placard: UN2817/CORROSIVE

Precautions To Be Taken in Transportation: Keep container tightly closed.

SECTION XI – ADDITIONAL INFORMATION

Other Additional Information: No information available at this time.

The information contained herein is based on the data available to us and is believed to be accurate. However, no warranty is expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof. We assume no responsibility for injuries from the use of the product described herein.

SECTION 313 SUPPLIER NOTIFICATION

This product contains the following toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372:

CAS #	Chemical Name:	Percent by Weight:
1341-49-7	Ammonium Bifluoride	<25
1341-49-7	Ammonium Bifluoride	CERCLA RQ: 100lbs

This information must be included in all Material Safety Data Sheets that are copied and distributed for this material.