

# MATERIAL SAFETY DATA SHEET

PRODUCT: KLEER-VU™ ETCHING CREAM

KLEER-VU 11728 JOHNSON LAKE RD, LAKESIDE, CA. 92040 (619) 561-1720

## I. PRODUCT AND COMPANY IDENTIFICATION:

- a. *PRODUCT NAME:* KLEER-VU™ VIN ETCHING CREAM
- b. *Product use / Class:* Glass Etching

## II. HAZARDOUS INGREDIENTS / INDENTITY INFORMATION:

CHEMICAL NAME: Ammonium Bifluoride / Fluoride Compound  
ACGIH TLV: 3 ppm as Fluoride 7664-39-3 / 20%

Saturated solution of Ammonium Bifluoride in water is the only active ingredient. Edible thickeners added. No hydrofluoric acid added. KLEER-VU Etching Cream contains 20% (by weight) of Ammonium Bifluoride and has PH of 5.2 and acidity of 12%. (Pure Ammonium Bifluoride DOT ID No. UN1727 and CAS No. 1341-49-7

## III. PHYSICAL / CHEMICAL CHARACTERISTICS:

SPECIFIC GRAVITY (H<sub>2</sub>O=1): 1.43

SOLUBILITY IN WATER: The thickeners do not allow the product to be soluble, but can be diluted with water.

APPEARANCE AND ODOR: Off white to tan. Pungent odor.

## IV. FIRE & EXPLOSION HAZARD DATA:

FLAMMABLE LIMITS: Non-Flammable

UNUSUAL FIRE AND EXPLOSION HAZARDS: Excessive heat will release toxic corrosive gases.

## V. REACTIVITY DATA:

CONDITIONS TO AVOID: Excessive heating.

INCOMPATIBILITY (MATERIELS TO AVOID): Strong acids and alkalis.

HAZARDOUS DECOMPOSITION or BYPRODUCTS: Will gel with age. No hazardous decomposition.

## VI. HEALTH HAZARD DATA:

HEALTH HAZARDS (Acute and Chronic): Severe irritation to eyes & abrasions on skin. If there are no skin abrasions there is no harm if washed off with water within 1-2 minutes. For ingestion give 1-2 glasses of water or milk, or a dose of Milk of Magnesia.

CARCINOGENICITY: None known.

OSH REGULATED: No.

SIGNS AND SYMPTOMS OF EXPOSURE: Excessive inhalation due to long term and close proximity to material can cause irritation to upper respiratory tract.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: No such cases known.

EMERGENCY AND FIRST AID PROCEDURES: Flush with water as soon as possible after contact with skin or if a "sting" is felt. If contact aggravates a previous skin abrasion, wash well with soap and water and apply a soothing ointment such as A&D or an antibiotic ointment such as Neosporin or Polysporin.

## VII. PRECAUTIONS FOR SAFE HANDLING AND USE:

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: A moderate amount could be flushed down sewer with plenty of water. Wear rubber gloves during clean up.

WASTE DISPOSAL METHOD: Flush with water or neutralize with lime. If any large quantity comply with regulations.

PRECAUTIONS TO BE TAKEN IN HANDLING & STORAGE: Ammonium Bifluoride crystals will form at temperatures much below 70° F but will dissolve at temperatures of 70-75° F.

OTHER PRECAUTIONS: Store only in plastic containers such as polyethylene or polyvinyl chloride.

## VIII. CONTROL MEASURES:

RESPIRATORY PRECAUTIONS: None needed under normal conditions of use and ventilation.

LOCAL EXHAUST: If strong fumes are noticed.

MECHANICAL: Normal ventilation.

PROTECTIVE GLOVES: Rubber, plastic, or vinyl.

EYE PROTECTION: Plastic goggles.

PROTECTIVE CLOTHING OR EQUIPMENT: As needed to prevent contact with skin or clothing.

WORK / HYGENIC PRACTICES: General cleanliness. Wash hands & exposed skin after contact.