

MATERIAL SAFETY DATA SHEET – EFFLORESCENCE REMOVER

Effective Date: 06-23-2009

Emergency #: 877-823-7873

SECTION I. IDENTIFICATION

PRODUCT NAME: EFFLORESCENCE REMOVER

CHEMICAL NAME & SYNONYMS: Ammonium Acid Fluoride- Polyethoxylated tert-dodecyl sulfur compounds

PROCESSORS NAME: SureCoat Systems 2940-A E. La Jolla Street, Anaheim, CA 92804 Ph: 714-633-5700

CHEMICAL FAMILY: Ammonium Acid Salt- Ethoxylated mercaptan

CHEMICAL FORMULA: NH₄HF₂

SECTION II. COMPONENTS

<u>INGREDIENTS</u>	<u>CAS NUMBER</u>	<u>% BY WT</u>
-Ammonium Hydrogen Fluoride	7664-39-3	25%
-Nonionic Surface Active Agents	Accession # 89157	1-5%
-Water	7732-18-5	Balance

The concentrations shown in the substance list are maximum or ceiling levels (weight %) to be used on calculations for formulations.

SECTION III. HEALTH HAZARDS

NFPA 704 CODES: 0=Minimal, 1=Slight, 2=Moderate, 3=Serious 4=Severe

<u>HEALTH (BLUE)</u>	<u>FLAMMABILITY (RED)</u>	<u>REACTIVITY (YELLOW)</u>	<u>PROTECTION</u>
NFPA: 3	NFPA: 0	NFPA: 0	NFPA: 0
HMIS: 1	HMIS: 0	HMIS: 0	HMIS: F

EFFECTS OF OVEREXPOSURE (OSHA 1910.1200 Hazard Communication Standard): Eye and Skin exposure may cause severe irritation and burns. Product may be absorbed through the skin and may produce signs of fluorosis such as weight loss, brittleness of bones, anemia, weakness and stiffness of joints. Ingestion may cause severe irritation to gastrointestinal tract, nausea, vomiting and abdominal pain. Death may occur from respiratory paralysis. Chronic exposure may lead to fluorosis. Internal bleeding may develop. Inhalation may cause severe irritation to mucous membranes and possibly pulmonary edema. Effects may not be immediately apparent, especially with dilute solutions. First Aid procedures should be followed even in cases of suspected contact.

- **EYES CONTACT:** Flush with large amounts of water for at least 15 minutes, until no evidence of chemical remains. Continue irrigating with normal saline until the PH has returned to normal (30-60 minutes). Cover with sterile bandages and seek medical attention immediately.
- **SKIN CONTACT:** Remove contaminated clothing and shoes. Wash exposed areas thoroughly with soap and water for at least 15 minutes. In case of chemical burns cover area with sterile, dry dressing. Bandage securely but not too tightly. Get medical attention immediately.
- **INHALATION:** Remove to fresh air. Provide artificial respiration if breathing has stopped. Maintain airway and administer oxygen, if available. Administration of oxygen should be performed by qualified personnel. Get medical attention immediately.
- **INGESTION:** Get medical attention immediately! Do not induce vomiting. Drink copious amounts of water, milk, lime water or a solution of calcium gluconate. Get medical attention immediately!

Listed In The Following:

- International Agency for Research on cancer monographs (IARC) --- NO
- National Toxicology Program annual report on carcinogens (NTP) --- NO
- OSHA subpart Z --- NO
- Massachusetts Right To Know Laws --- YES
- New Jersey Right To Know Laws --- YES
- Comprehensive Env. Response, Compensation and Liability Act --- YES
- Resource Conservation 7 Recovery Act (RCRA) --- NO
- Sara 302 Extremely Hazardous Substance --- NO
- Warning: This product contains detectable amounts of a chemical known to the state of California to cause cancer/birth defects and other reproductive harm.

SECTION IV. FIRST AID MEASURES

EMERGENCY FIRST AID PROCEDURES:

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EFFLORESCENCE CLEANER

SECTION V. FIRE AND EXPLOSION HAZARD DATA

Lower Flammability Limits (% in air): Not Applicable

Flash Point (And Method): Material Does Not Exhibit A Flash Point

Flammability Classification: Nonflammable

Recommended Extinguishing Media: CO₂, Dry Chemical, Foam, Water Spray

Special Fire Fighting Procedures: Fire Fighters must be equipped with appropriate protective apparel Niosh-approved breathing apparatus.

Usual Fire/Explosion Hazards: Decomposes on heating. Fumes are corrosive and toxic.

Stability: Stable

Conditions to Avoid: May burn but does not burn readily. Flammable, poisonous gasses

Incompatibility with Other Materials: Strong Acids and Alkalies; Glass and Metals

SECTION VI. SPILL, LEAK & DISPOSAL PROCEDURES

-Sweep up and containerize. Wash area of spill thoroughly after neutralizing with lime. -Dispose of material according to local, state, and federal pollution regulations.

SECTION VII. HANDLING AND STORAGE

-This product is toxic by inhalation, ingestion and skin absorption. -This product is corrosive to tissues.

-Avoid contact in all forms. Store material in a cool, dry, well-ventilated area. -Treat empty containers as hazardous due to material residue. -Continue to follow all label precautions with empty containers.

SECTION VIII. PERSONAL PROTECTION

Respiratory Protection: A Niosh-Approved Respirator for dust and mist.

Local Exhaust: Generally Acceptable. Avoid high concentration of fumes.

Protective Gloves: Rubber Gauntlets

Eye Protection: Chemical Safety Goggles

Other Protective Equipment: Eye-Wash; Safety Shower; Protective Clothing

SECTION IX. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Clear liquid.

pH: (Typical): 3.0-4.0

VAPOR PRESSURE, at 20 deg. C.: 17.5 mm of Hg

SPECIFIC GRAVITY (H₂O = 1): 1.04 g/cc (8.63 #/gal)

ODOR: dull acidic /Grapefruit odors

BOILING POINT: 100 C

SOLUBILITY IN WATER: Soluble

PERCENT VOC, g/1000g: 10

SECTION XIII. DISPOSAL CONSIDERATIONS

Keep out of lakes, streams and water ways. Small quantities may be flushed to sanitary or industrial sewer.

Disposal of large quantities should comply with all federal, state and local guidelines.

SECTION XIV. TRANSPORT INFORMATION

- **PROPER DOT SHIPPING NAME:** Ammonium Hydrogendifluoride, Solution

- **DOT HAZARD CLASS:** 8

- **Packing Group:** II

- **UNNA ID NUMBER:** UN 2817

- **LABEL:** Corrosive

- **PLACARD:** Corrosive

- **International Harmonic Tariff Code:** 2826.19.10

SECTION XVI. OTHER INFORMATION

All terms and abbreviations have been defined in various government publications, or are standard chemical terms. The data and recommendations herein are based upon our own research and the research of others, and are believed to be accurate. However no warrantee or guarantee of their accuracy is made. The product is distributed without warrantee, expressed or implied, including the limited warranties of merchantability of fitness for a particular purpose.

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