

Material Safety Data SheetQuick Identifier:
Evolve-Sour**Section 1**Metro-Chem, Inc.
24 Pennsylvania Avenue
Post Office Box 401
Kearny, NJ 07032Emergency Phone No. 800-424-9300
Other Information 973-589-2800
Date Prepared: November 8, 1988
Last Revision: April 8, 1998**Section 2 Hazardous Ingredients Identity**HAZARDOUS COMPONENTS/CHEMICAL & COMMON NAME: Sodium Fluorosilicate CAS NO.: 16893-85-9
OSHA PEL: TWA 2.5 mg(F)/m3 ACGIH TLV: 2.5 mg(F)/m3 OTHER EXPOSURE LIMITS: n/aHAZARDOUS COMPONENTS/CHEMICAL & COMMON NAME: Octadecanaminium Dimethyl Octodecyl-Chloride;
Quaternary Ammonium Blend
OSHA PEL: TWA 2.5 mg(F)/m3 ACGIH TLV: 2.5 mg(F)/m3 OTHER EXPOSURE LIMITS: n/a
EPA Reg. No. 183955 EPA Est. No. 1839-IL-01DOT SHIPPING INFORMATION: *Toxic solid, inorganic, N.O.S., (Sodium Fluorosilicate), 6.1, UN3288, PG III***Section 3 Physical & Chemical Characteristics**BOILING POINT: n/a SPECIFIC GRAVITY (H2O=1): 2.0 VAPOR PRESSURE (mm Hg): n/a
VAPOR DENSITY (Air=1): n/a SOLUBILITY IN WATER: good REACTIVITY IN WATER: n/a
APPEARANCE AND ODOR: off white powder with perfume scent MELTING POINT: n/a**Section 4 Fire and Explosion Hazard Data**FLASH POINT: none METHOD USED: n/a FLAMMABLE LIMITS IN AIR % BY VOLUME
LEL LOWER: n/a UEL UPPER: n/a AUTO-IGNITION TEMPERATURE: n/a
EXTINGUISHER MEDIA: Water, foam, or other suffocating agents.
SPECIAL FIRE FIGHTING PROCEDURES: Self-contained breathing apparatus.
UNUSUAL FIRE AND EXPLOSION HAZARDS: Water may cause violent frothing and possibly endanger fire fighter if it is sprayed into a container of hot burning liquids.**Section 5 Physical Hazards (reactivity data)**STABILITY: Stable CONDITIONS TO AVOID: Moist Atmospheres
INCOMPATIBILITY (MATERIALS TO AVOID): Acid and Acid Vapors
HAZARDOUS DECOMPOSITION PRODUCTS: Sodium fluoride and Silicon tetrafluoride
HAZARDOUS POLYMERIZATION: Will Not Occur CONDITIONS TO AVOID: None

Section 6 Health Hazards

1. ACUTE (Immediate): Toxic if swallowed or inhaled.
2. CHRONIC (Delayed Effect): Prolonged contact may cause skin irritation.

SIGNS AND SYMPTOMS OF EXPOSURE: skin irritation - difficulty breathing

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Can cause loss of consciousness if swallowed or inhaled.

CHEMICAL LISTED AS CARCINOGEN OR POTENTIAL CARCINOGEN:

NATIONAL TOXICOLOGY PROGRAM: NO I.A.R.C. MONOGRAPHS: NO OSHA: NO

EMERGENCY AND FIRST AID PROCEDURES: Remove from exposure

ROUTES OF ENTRY

1. INHALATION: Remove to fresh air. If breathing has stopped, give artificial respiration. If difficulty in breathing, give oxygen. Get medical attention immediately.
2. EYES: Flush thoroughly with water. Get medical attention immediately.
3. SKIN: Wash with soap and plenty of water. If skin reddens, get medical attention.
4. INGESTION: Poisonous if swallowed. If victim is conscious, administer water or milk. If victim is unconscious, keep warm until medical assistance arrives. Get medical attention immediately.

Section 7 Precautions and Spill/Leak Procedures

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Store in a dry location.

OTHER PRECAUTIONS: Avoid heated areas

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Clean up spills immediately by sweeping and shoveling. Then flush area with large amounts of water. Reuse spilled powder is possible.

WASTE DISPOSAL METHODS (Consult federal, state, and local regulations): If non-reusable place in a closed container, label, and remove to an approved chemical waste disposal area. People performing this work should wear adequate personal protective equipment.

Section 8 Special Protection Information/Control Measures

RESPIRATORY PROTECTION (Specify Type): NIOSH approved respirator for dust and mists recommended.

VENTILATION: LOCAL EXHAUST: Adequate exhaust MECHANICAL: n/a SPECIAL: n/a OTHER: n/a

PROTECTIVE GLOVES: Leather palm, rubber, PVC, or other plastic gloves must be worn.

EYE PROTECTION: Chemical splash goggles or face shield must be worn.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: safety/rubber footwear & rubber apron recommended.

WORK/HYGIENIC PRACTICES: Safety showers and eyewash stations should be handy.

We believe the information contained herein is true; however, no warranties, expressed or implied, are made or intended herein with respect to such information.