

WATER STAIN REMOVER # 176**WATER STAIN REMOVER # 176****MATERIAL SAFETY DATA SHEET**

Date Prepared: 3-15-96 By Charles D. Werner (206) 762-7000

Meets OSHA/WHMIS requirements

SECTION 1 - PRODUCT IDENTIFICATION

Manufacturer Name: Fortech Products by Formula Corporation

Emergency Phone No: 1-800-228-5635 ext 059

Address: 901 2nd Ave S., Seattle, WA 98108

Name: WATER STAIN REMOVER

Product Type/Use: Ammonium Bifluoride stain remover

PRODUCT CODE: FLCSRFXXCT-WSR-1

Formula:

SECTION 2 - HAZARDOUS INGREDIENTS

Chemical Name/Common Name:

CAS NO.

PERCENT
(optional)

TLV/PEL

Ammonium Hydrogen Fluoride LD 50 300 mg/kg Oral (Rat) LC 50 N/A

1341-49-7

8

25 ppm OSHA
(Inhalation)

No chemicals subject to the reporting requirements of section 313 of title III and of 40 CFR 372 are present

This product may contain chemicals known to the state of California to cause cancer or birth defects or other reproductive harm.

SECTION 3 - PHYSICAL DATA

Boiling Point: (F) approx 212 F (100 C) Freezing Point 32 F (0 C)

Specific Gravity: (H₂O = 1.0) 1.05

pH: 2.0-4.0

Vapor Pressure: (mmHg) 18

Vapor Density: Heavier than air

Solubility In Water: Completely miscible Coefficient of water/oil: Not available

Evaporation Rate (vs ether) slower than ether

Appearance and Odor: Water white, non-viscous liquid, faint odor. Odor threshold: Not available

SECTION 4 - FIRE AND EXPLOSION HAZARD DATA

Flash Point (T.C.C.): NONE Flammable Limits Upper N/A Lower N/A

Extinguishing Media: water Fog.

Special Fire Fighting Procedures: Fire fighters should wear self-contained breathing apparatus and full protective clothing. Use Water spray to cool nearby containers and structures exposed to fire.

Unusual Fire and Explosion Hazards: Not a fire or explosion hazard. However, toxic and corrosive fluoride compounds may be released in a fire situation.

SECTION 5 - REACTIVE DATA

Stability: Stable Incompatibility: Strong acids, alkalis, chlorine, cyanides, sulfides.

Hazardous Decomposition Products: May liberate hydrogen fluoride, ammonia and sulfur oxides. Will form hydrofluoric acid on contact with strong acids; ammonia on contact with alkalis.

SECTION 6 - HEALTH HAZARDS

Limit Values - Product (See Section 2 for Ingredient TLV/PEL)

None Established

Routes of Exposure: Eye - yes Skin - Not Established Oral - yes Inhalation - yes Other

Signs and Symptoms of Over-exposure (Acute): EYES: Vapors and mists causes burns to the eyes. INHALATION: Undiluted vapors and mists are corrosive to the nose, throat, and mucous membranes. Irritation, coughing, chest pain, and breathing difficulty may occur with brief exposure while prolonged exposure will result in more severe irritation. SKIN: Redness, drying of skin or other signs of irritation and fluoride-like burns which may not be immediately evident.

Signs and Symptoms of Over-exposure (Chronic): Exposure to FLUORIDES over years may produce embrittlement and decalcification of bones, and increased calcification of ligaments and vertebrae resulting in spinal stiffness (fibrosis).

Medical Conditions Aggravated by Over-exposure: Persons with pre-existing skin disorders, eye problems, impaired respiratory function may be more susceptible.

Carcinogen or Suspect Carcinogen Ingredients: NTP - NO IARC - NO OSHA - NO NONE

SECTION 7 - EMERGENCY AND FIRST AID PROCEDURES

Eyes: Flush with immediately with lots of running water for at least 15 minutes holding eyelids open. GET MEDICAL ATTENTION IMMEDIATELY.

Skin: Flush with water for at least 15 minutes. Remove contaminated clothing & shoes. Wash before reuse.

Ingestion: If conscious, drink 1 to 8 glasses of water or milk to dilute. DO NOT INDUCE VOMITING. GET MEDICAL ATTENTION IMMEDIATELY. Treat symptomatically. Do not give anything by mouth to an unconscious or convulsing person.

Inhalation: Get to fresh air. Give artificial respiration if not breathing.

SECTION 8 - SPECIAL PROTECTION INFORMATION

Respiratory Protection: not normally required

Ventilation Requirements:

Adequate ventilation required. Mechanical required if necessary to maintain exposure below TLV/PEL.

Protective Gloves: Wearing resistant gloves is required. Eye Protection: Not normally required. Recommended if used overhead or misting or spraying.

Other Protective Clothing: Where gross eye and skin contact may occur use and wear appropriate protective clothing, including resistant clothing, rubber boots with pants on the outside, and rubber gloves.

SECTION 9 - SPILL OR LEAK PROCEDURES

Steps to be Taken if Released or Spilled: For small spills, dilute with water and rinse down sanitary sewer. For large spills, contain by diking with absorbent material and carefully neutralize with lime or sodium carbonate. When neutralized, rinse with water into sanitary sewer system.

Waste Disposal Methods: Note that the contaminants of the product must be considered when disposing. Consult appropriate Federal, State and Local regulatory agencies to ascertain proper disposal procedures and comply with them.

SECTION 10 - STORAGE AND HANDLING INFORMATION

Precautions to be Taken in Handling and Storage: Store in a cool dry, well ventilated place away from incompatible materials.

Keep container tightly closed when not in use.

Precautions: Empty containers will retain product residue and vapors. Always obey hazard warnings and handle empty containers as if they were full. When mixing with water, always add this product slowly to water and stir. This product is a class 8 for transportation and storage according to DOT/TDG regulations.