NATER STAIN REMOVER # 176

WATER STAIN REMOVER # 176

(206) 762-7000

MATERIAL SAFETY DATA SHEET

3-15-96 By Charles D. Werner Date Prepared: feets OSHA/WHMIS requirements SECTION T PRODUCT IDENTIFICATION Emergency Phone No: 1-800-228-5635 ext 059 ver Name: Fortech Products by Formula Corporation = Mar 901 2nd Ave S., Seattle, WA 98108-Product Type/Use: Ammonium Bifluoride stain remover Name: WATER STAIN REMOVER Formula: PNUDUCT CODE: FLCSRFXXCT-WSR-1 SECTION 2 HAZARDOUS INCREDIENTS TLV/PEL PERCENT CAS NO. Chemical Name/Common Name: (optional) 25 ppm OSHA 8 Ammonium Hydrogen Fluoride LD 50 300 mg/kg Oral (Rat) LC 50 N/A 1341-49-7 (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 Specific Gravity: (H2O = 1.0) pH: 2.0-4.0 1.05 approx 212 F (100 C) Freezing Point 32 F (0 C) Boiling Point: (F) Heavier than air Vapor Density: Vapor Pressure: (mmHg) 18 Coefficient of water/oil: Not available Completely miscible Solubility In Water: slower than ether Evaporation Rate (vs ether) Odor threshold: Not available Water white, non-viscous liquid, faint odor. Appearance and Odor: SECTION 4 FIRE AND EXPLOSION HAZARD DATA Lower N/A Upper N/A Flash Point (T.C.C.): NONE Flammable Limits 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. Not a fire or explosion hazard. However, toxic and corrosive fluoride compounds may be released in a fire situation. Umisual Fire and Explosion Hazards: REAC SIMEDALA SECTION Strong acids, alkalies, chlorine, cyanides, sufficies, Hazardous Decomposition Products: May liberate hydrogen fluoride, annonia and suffur oxides. Will form hydrofluoric acid on contact with strong acids; ammonia on contact with alkalies SECTION GENERALTH BAZARDS Limit Value - Product (See Section 2 for Ingredient TLV/PEL) None Established Other Inhalation-yes Sicin-Not Established Orai-yes Signs and Symptoms of Over-exposure (Acute): EYES: Vapors and mists causes burns to the eyes. INHALATION: Undiffered vapors and mists are corrosive to the nose, throat, and mucous membranes. Initation, coughing, chest pain, and breathing difficulty may occur with brief exposure while prolonged exposure will result more severe irritation. SKIN: Redness, drying of skin or other signs of irritation and fluoride-like burns which may not be immediately evident. Exposure to FLUORIDES over years may produce embrittlement and detaicification of bones, and increased Signs and Sympsoms of Over-exposure (Chronic): calcification of ligaments and vertebrae resulting in spinal stiffness (finoresis). Medical Conditions Aggravated by Over-exposure: Persons with pre-existing skin disorders, eve problems, impaired respirature function may be more susceptible. NTP - NO IARC - NO Carcinogen or Suspect Carcinogen Ingredients: SECTION / DMIGRGENCY AND EIRST ALD PROCEDURES Eyes: Flush with immediately with loss of maning water for at lease 15 minutes holding cyclids open. GET MEDICAL ATTENTION IMMEDIATELY. Skin: Flush with water for at least 15 minutes. Remove contaminated clothing & shoes. Wash before reuse. If conscious, drink 1 to 8 glasses of water or milk to dilute. DO NOT INDUCE VOMITING. GET MEDICAL ATTENTION IMMEDIATELY. Treat ingestion: Don not give anything by mouth to an unconscious or convulsing person. symptomatically. Inhalation: Get to fresh air. Give artificial respiration if not breathing. SECTION 8-SPECIAL PROTECTION INFORMATION Adequate ventilation required. Mechanical required if necessary to Ventilation Requirements: Respiratory Protection: not normally required maintain exposure below TLV/PEL. 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 pubber 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 absorbem material and carefully neutralize with lime or sodium carbonate. When neutralized, rinse with water into sanitary sewer system.. Waste Disposal Methods: Note that the contaminates 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. recautions: 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.