

TRI-A-LITH CONCRETE HARDNER

MANUFACTURER: SIERRA CORP/TK PRODUCTS EMERGENCY PHONE: 1-800-424-9300
ADDRESS : 11400 WEST 47TH STREET INFORMATION PHONE: (952)938-7223
MINNETONKA, MN 55343

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SECTION 1 - PRODUCT IDENTIFICATION

PRODUCT NAME: TRI-A-LITH CONCRETE HARDNER HMIS CODES: H F R P
PRODUCT CODE: TK-3981 3*0 0 C

SECTION 2 - COMPOSITION/INGREDIENT INFORMATION

Table with columns: COMPONENT, CAS NUMBER, WEIGHT PERCENT, OSHA PEL, EXPOSURE LIMITS (ACGIH TLV, OTHER). Row 1: * Magnesium Silicofluoride-Hexahydrate, 18972-56-0, 22.1, 2.5 MG/M3, 2.5 MG/M3.

* Chemical(s) that are chronic health hazards. Refer to section 3 for further information.
+ Toxic chemical(s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372.

SECTION 3 - HEALTH HAZARDS IDENTIFICATION

PRIMARY ROUTES OF EXPOSURE: Skin contact.
EFFECTS OF ACUTE EXPOSURE:
EYES: Corrosive to eyes. Contact with eyes may cause severe irritation and burns.
SKIN: Corrosive to skin and mucous membranes. Contact with skin may cause severe irritation and burns. May be absorbed through skin in toxic amounts.
INHALATION: Inhalation of vapor or mist can cause irritation of nose, throat and lungs and lead to headaches and nausea.
INGESTION: May be fatal if swallowed in sufficient amounts. Can cause gastrointestinal irritation, nausea, vomiting and diarrhea. Small amounts aspirated into the respiratory system during ingestion or vomiting may cause mild to severe pulmonary injury.

CHRONIC HEALTH EFFECTS:
Chronic exposure may cause osteofluorosis and permanent respiratory impairment. MEDICAL CONDITIONS GENERALLY AGGRAVATED B
No known effects on other illnesses.

SECTION 4 - FIRST AID MEASURES

EYES: Flush with large amounts of water for 15 minutes, lifting upper and lower eyelids. If irritation persists seek medical attention.
SKIN CONTACT: Wash contaminated area with soap and water. Remove and launder contaminated clothing.
INGESTION: If a large amount is ingested, give water or milk and induce vomiting. Seek medical attention.
INHALATION: Remove victim to fresh air and provide oxygen if breathing is difficult. If breathing has stopped administer artificial respiration. Seek medical attention if condition persists.

SECTION 5 - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: No flash METHOD USED: na
FLAMMABLE LIMITS IN AIR BY VOLUME- LOWER: n/a UPPER: n/a
EXTINGUISHING MEDIA:
This material will not burn in its liquid state unless heated above its flash point. Dried films may burn and can be extinguished by water spray, foam, dry chemical or carbon dioxide.

SPECIAL FIREFIGHTING PROCEDURES:
Persons exposed to products of combustion should wear self-contained breathing apparatus and full protective equipment. Isolate danger area, keep unauthorized personnel out.

UNUSUAL FIRE AND EXPLOSION HAZARDS:
There is the possibility of pressure buildup in closed containers when heated. Water spray may be used to cool these containers.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:
Do not let spilled or leaking material enter watercourse. May be toxic to aquatic life. Absorb with oil-dri or similar

Inert material. Sweep or scrape up and containerize. Rinse affected area thoroughly with water. Wear appropriate protective equipment.

===== **SECTION 7 - HANDLING AND STORAGE**=====

HANDLING INFORMATION:

Employees who come in contact with this material must be trained in accordance to 1910.1200 of the Hazard Communicatin Standard. Wear chemical resistant gloves and protective clothing to minimize contact. The use of respiratory protection is advised when spraying because of mist and dust overspray.

STORAGE INFORMATION:

Keep from freezing; material may coagulate. The minimum recommended storage temperature is 34F/1C, the maximum recommended storage temperature is 120F/49C. Keep away from incompatable materials (see section 10). Keep containers tightly closed. It is advised that material be used within 1 year of manufacture, rotate stock.

OTHER PRECAUTIONS:

All empty containers should be disposed of in an evironmentally safe manner in accordance with all governmental regulations.

===== **SECTION 8 - CONTROL MEASURES/PERSONAL PROTECTION**=====

RESPIRATORY PROTECTION:

No special requirements under normal use conditions. In confined areas, or ares with poor ventilation, engineering controls should be used to minimize exposure. Use NIOSH/MSHA approved respirator if conditions warrant.

VENTILATION:

General room ventilation is adequate.

PROTECTIVE GLOVES:

Prevent prolonged or repeated contact by wearing chemical resistant gloves and other appropriate protective clothing. Launder contaminated clothing before reuse.

EYE PROTECTION:

Wear safety glasses to reduce eye contact potential. Chemical safety goggles (ANSI Z87.1 or approved equivalent) are appropriate if splashing is likely. Eye washes must be available where eye contact can occur.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT:

A source of clean water should be available for flushing eyes and skin. Showers should be available if larger spills are possible.

WORK/HYGIENIC PRACTICES:

Efforts should be made to minimize contact and spills. Always wash hands before eating, drinking, or smoking. Clean up spills promptly. Follow OSHA and company guidlines.

===== **SECTION 9 - PHYSICAL/CHEMICAL PROPERTIES**=====

PHYSICAL STATE: Liquid

COLOR: Clear(Water white)

ODOR: Odorless.

SOLUBILITY IN WATER: Dilutable

SPECIFIC GRAVITY (H2O=1): 1.11

VAPOR DENSITY: Heavier than air.

BOILING RANGE:

EVAPORATION RATE: Slower than nBuAcCOATING V.O.C.: 0 g/l(0.0 lb/

===== **SECTION 10 - STABILITY/REACTIVITY DATA**=====

STABILITY:

Stable under normal conditions and handling.

CONDITIONS TO AVOID:

None known

INCOMPATIBILITY (MATERIALS TO AVOID):

Avoid contact with ferrous materials or alkaline materials.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS:

Will decompose to hydrofluoric acid and silicotetrafluoride.

HAZARDOUS POLYMERIZATION:

Will not occur.

===== **SECTION 11 - TOXICOLOGICAL INFORMATION**=====

SENSITIZATION:

None known.

CARCINOGENICITY:

There is no data available to indicate any components present at greater than 0.1% may present a carcinogenic hazard.

REPRODUCTIVE TOXICITY:

There is no data available to indicate any components present at greater than 0.1% may present reproductive toxicity.

TERATOGENICITY (BIRTH DEFECTS):

There is no data available to indicate any components present at greater than 0.1% may cause birth defects.

MUTAGENICITY:

There is no data to indicate that any component present at greater than 0.1% will alter DNA.

===== **SECTION 12 - ECOLOGICAL INFORMATION**=====

ENVIRONMENTAL DATA:

This product is an oral poison and is corrosive. It can be neutralized with lime.

===== SECTION 13 - DISPOSAL CONSIDERATIONS =====

Material is considered a hazardous waste under RCRA due to pH (less than or equal to 2 or greater than or equal to 12.5). Spills may be reportable to state and federal agencies under the Clean Water Act. Comply with all federal, state, and local environmental regulations concerning disposal.

===== SECTION 14 - REGULATORY INFORMATION =====

SHIPPING NAME:

Corrosive Liquid, Toxic, N.O.S., 8, 6.1, (Magnesium Fluorosilicate), UN2922, II

All ingredients of this product are listed, or are excluded from listing, on the US Toxic Substances Control Act (TSCA) chemical substance inventory.

This product does contain a chemical(s) subject to the reporting requirements of SARA Title III, Section 313 (40CFR 372). See section 2.

STATE SPECIFIC REQUIREMENTS:

This product does not contain a chemical known to the state of California to cause cancer, birth defects or reproductive harm, subject to the requirements of California Proposition 65.

STATE LISTED COMPONENTS	CAS NUMBER	STATE CODE	.

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