

REV: 02/08/89

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PROD 8782

HEALTH = 2      REACTIVITY = 1  
 FIRE     = 0      EQUIPMENT = .

FOR EMERGENCIES INVOLVING  
 SPILL, LEAK, FIRE OR EXPOSURE, CALL  
 1-800-424-9300  
 DAY OR NIGHT

HAZARD RATINGS:  
 0 = LEAST      1 = SLIGHT  
 2 = MODERATE   3 = HIGH  
 4 = EXTREME

SECTION I ===== PRODUCT DESCRIPTION =====

PRODUCT NAME:            SODIUM SILICOFLUORIDE  
 SYNONYMS:                SODIUM FLUOSILICATE, SODIUM HEXAFLUOROSILICATE  
 CHEMICAL FAMILY:        INORGANIC SALT

SECTION II ===== PRODUCT COMPOSITION =====

INGREDIENT	WT %	CAS #	TLV
SODIUM SILICOFLUORIDE	98.0 MIN	16893-85-9	2.5MG(F)/M3

SECTION III ===== PHYSICAL PROPERTIES =====

BOILING RANGE:            DECOMPOSES  
 SPECIFIC GRAVITY (WATER=1):      2.68  
 VAPOR PRESSURE AT 20C (MM OF HG):      NIL  
 VAPOR DENSITY (AIR=1):            NOT APPLICABLE  
 SOLUBILITY IN WATER:                0.065G/100CC AT 17 C  
 EVAPORATION RATE:                  NOT APPLICABLE  
 % VOLATILES:                        NONE  
 APPEARANCE AND ODOR:                WHITE CRYSTALLINE SOLID WITH NO ODOR

SECTION IV ===== FIRE AND EXPLOSION DATA =====

LOWER FLAMMABILITY LIMITS (% IN AIR): NOT FLAMMABLE  
 FLASH POINT (AND METHOD):            DOES NOT EXHIBIT A FLASH POINT  
 FLAMMABILITY CLASSIFICATION:        NOT CLASSIFIED  
 RECOMMENDED EXTINGUISHING MEDIA:    DOES NOT BURN OR SUPPORT COMBUSTION.  
 SPECIAL FIRE FIGHTING PROCEDURES:    FIRE FIGHTERS SHOULD BE EQUIPPED WITH  
 APPROPRIATE PROTECTIVE APPAREL AND NIOSH-APPROVED RESPIRATORS.

UNUSUAL FIRE/EXPLOSION HAZARDS: NONE

SECTION V ===== HEALTH INFORMATION =====

THRESHOLD LIMIT VALUE: 2.5 MG(F)/M3 ACUTE TOXICITY: LD50(ORAL-RAT) 125 MG/KG

OSHA PEL: 2.5 MG(F)/M3

EFFECTS OF OVEREXPOSURE: INHALATION MAY CAUSE IRRITATION TO THE NOSE, THROAT, MUCOUS MEMBRANES AND LUNGS. COUGHING AND DIFFICULT BREATHING MAY OCCUR. REPEATED OR PROLONGED EXPOSURE TO EXCESSIVE CONCENTRATIONS OF FLUORIDE COMPOUNDS MAY CAUSE FLUORIDE POISONING. CONTACT WITH SKIN CAN CAUSE IRRITATION AND BURNING SENSATION. CONTACT WITH EYES CAN CAUSE SEVERE IRRITATION, WITH REDNESS AND PAIN. INGESTION CAUSES GASTROINTESTINAL IRRITATION WITH NAUSEA AND VOMITING. LOSS OF CONSCIOUSNESS MAY OCCUR. FLUORIDE POISONING SYMPTOMS INCLUDE

WEAKNESS, TREMORS, CONVULSIONS, COLLAPSE, LOW BLOOD CALCIUM LEVELS AND COMA.

EMERGENCY FIRST AID PROCEDURES:

EYE CONTACT: FLUSH WITH WATER FOR 15 MINUTES. GET MEDICAL ATTENTION.

SKIN CONTACT: REMOVE CONTAMINATED CLOTHING AND SHOES. WASH EXPOSED AREAS WITH SOAP AND WATER. GET MEDICAL ATTENTION FOR IRRITATION OR BURNS.

INHALATION: REMOVE TO FRESH AIR. IF BREATHING HAS STOPPED, GIVE ARTIFICIAL RESPIRATION. GET MEDICAL ATTENTION.

INGESTION: GET MEDICAL ATTENTION IMMEDIATELY.

---WARNING: THIS PRODUCT CONTAINS DETECTABLE AMOUNTS OF A CHEMICAL KNOWN ---TO THE STATE OF CALIFORNIA TO CAUSE CANCER/BIRTH DEFECTS OR OTHER ---REPRODUCTIVE HARM.

SECTION VI ===== REACTIVITY DATA =====

STABILITY: STABLE

CONDITIONS TO AVOID: EXTREME HEAT.

INCOMPATIBILITY WITH OTHER MATERIALS: CYANIDES; REACTIVE METALS (I.E. ALUMINUM AND MAGNESIUM); ALKALIES.

HAZARDOUS DECOMPOSITION PRODUCTS: HYDROGEN FLUORIDE FROM THERMAL DECOMPOSITION

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

SECTION VII ===== SPILL OR LEAK PROCEDURES =====

PROCEDURES IF MATERIAL IS SPILLED OR RELEASED: WEAR PROTECTIVE CLOTHING AND NIOSH-APPROVED RESPIRATORS WHEN CLEANING UP ANY SPILLS. SWEEP OR SHOVEL INTO

CONTAINERS FOR REUSE OR DISPOSAL.

WASTE DISPOSAL PROCEDURES: OBSERVE ALL LOCAL, STATE AND FEDERAL REGULATIONS.

SECTION VIII ===== SPECIAL PROTECTION INFORMATION =====

RESPIRATORY PROTECTION: U.S. BUREAU OF MINES APPROVED/NIOSH-APPROVED

RESPIRATOR FOR DUSTS

LOCAL EXHAUST: RECOMMENDED

- PROTECTIVE GLOVES: RUBBER
- EYE PROTECTION: CHEMICAL SAFETY GLASSES
- OTHER PROTECTIVE EQUIPMENT: EYE-WASH; SAFETY SHOWER; PROTECTIVE CLOTHING

SECTION IX ===== ADDITIONAL PRECAUTIONS =====  
USE ONLY WITH ADEQUATE VENTILATION.  
AVOID BREATHING DUSTS.  
AVOID CONTACT WITH EYES, SKIN AND CLOTHING.  
STORE MATERIAL IN DRY AREA.  
KEEP BAG OR CONTAINER CLOSED WHEN NOT IN USE.

THE INFORMATION HEREIN IS PRESENTED IN GOOD FAITH AND BELIEVED TO BE CORRECT AS OF THE DATE HEREOF. HOWEVER, CHEMTECH MAKES NO REPRESENTATION AS TO THE COMPLETENESS AND ACCURACY THEREOF. USERS MUST MAKE THEIR OWN DETERMINATION AS TO THE SUITABILITY OF THE PRODUCT FOR THEIR PURPOSES PRIOR TO USE.

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