

CHEMTECH INDUSTRIES INC MANUFACTURED PRODUCTS DIV -- FLUOROSILICIC ACID-23 % --  
6810-00-935-5817

===== Product Identification =====

Product ID:FLUOROSILICIC ACID-23 %

MSDS Date:05/01/1992

FSC:6810

NIIN:00-935-5817

MSDS Number: BFXRR

=== Responsible Party ===

Company Name:CHEMTECH INDUSTRIES INC MANUFACTURED PRODUCTS DIV

Address:1655 DES PERES RD

Box:31000

City:SAINT LOUIS

State:MO

ZIP:63131-1821

Country:US

Info Phone Num:314-966-9934 / FAX 314-966-4733

Emergency Phone Num:314-966-1400/800-424-9300(CHEMTREC)

CAGE:56894

=== Contractor Identification ===

Company Name:CHEMTECH INDUSTRIES INC MANUFACTURED PRODUCTS DIV

Address:1655 DES PERES RD

Box:31000

City:ST. LOUIS

State:MO

ZIP:63131-1821

Country:US

Phone:314-966-9934

CAGE:56894

Company Name:LOS ANGELES CHEMICAL CO

Address:4545 ARDINE ST

Box:1987

City:SOUTH GATE

State:CA

ZIP:90280

Country:US

Phone:213-562-9500

CAGE:75656

===== C

Composition/Information on Ingredients =====

Ingred Name:HYDROFLUOROSILICIC ACID  
CAS:16961-83-4  
RTECS #:VV8225000  
Fraction by Wt: 23%  
Other REC Limits:NONE RECOMMENDED  
ACGIH TLV:2.5 MG/M3 AS F

Ingred Name:WATER  
CAS:7732-18-5  
RTECS #:ZC0110000  
Fraction by Wt: 77.0%

===== Hazards Identification =====

LD50 LC50 Mixture:LD50 (ORAL, RAT) IS UNKNOWN.  
Routes of Entry: Inhalation:YES Skin:NO Ingestion:YES  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:N  
O

Health Hazards Acute and Chronic:TARGET ORGANS:EYES, SKIN, RESPIRATORY  
& GASTROINTESTINAL TRACTS. ACUTE- CORROSIVE/TOXIC. EYES/SKIN:CAUSES  
SEVERE BURNS, EYE DAMGE, SEVERE IRRITATION. MAY CAUSE BLINDNESS.  
ORAL:CAUSES SEVERE BURNS OF M OUTH, THROAT, STOMACH. INHALE:SEVERE  
IRRITATION, PAIN, INFLAMMATION. CHRONIC- MAY CAUSE FLUOROSIS.

Explanation of Carcinogenicity:NONE

Effects of Overexposure:SEVERE IRRITATION, SEVERE BURNS, COUGH, NAUSEA,  
NASAL DISCHARGE, RESPIRATORY FAILURE,  
REDNESS OF EYES, BLURRED  
VISION, BURNING SENSATION IN MOUTH AND PHARYNX, SALIVATION,  
ABDOMINAL PAIN, VOMITING BLOO D, DIARRHEA, DIFFICULTY BREATHING,  
SHOCK, RAPID PULSE, DEATH

Medical Cond Aggravated by Exposure:PERSONS WITH PRE-EXISTING SKIN  
DISORDERS OR EYE PROBLEMS OR IMPAIRED RESPIRATORY FUNCTION MAY BE  
MORE SUSCEPTIBLE TO THE EFFECTS OF THE SUBSTANCE.

===== First Aid Measures =====

First Aid:GET IMMEDIATE MEDICAL HELP FOR ALL CASE  
S OF EXPOSURE.

EYES/SKIN:FLUSH WITH WATER FOR AT LEAST 15 MINUTES. HOLD EYELIDS  
OPEN. INHALED:REMOVE TO FRESH AIR. PROVIDE CPR/OXYGEN IF NECESSARY.  
ORAL:DO NOT I NDUCE VOMITING. IF CONSCIOUS, DRINK 2-4CUPFULS OF  
MILK, WATER OR IF AVAILABLE, LIME WATER OR 1% CALCIUM CHLORIDE  
SOLUTION. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

===== Fire Fighting Measures =====

Flash Point:NONE  
Lower Limits:NOT RELEVANT  
Upper Limits:NOT RELEVANT

Extinguishing Media:WATER SPRAY, CARBON DIOXIDE, FOAM OR DRY CHEMICAL FOR SURROUNDING FIRE. USE WATER SPRAY TO COOL FIRE EXPOSED CONTAINERS.

Fire Fighting Procedures:WEAR FULL PROTECTIVE CLOTHING AND NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS WITH FULL FACEPIECE OPERATED IN THE POSITIVE PRESSURE MODE.

Unusual Fire/Explosion Hazard:CORROSIVE AND TOXIC MATERIALS MAY BE FORMED.

===== Accidental Release Measures =====

Spill Release Procedures:

WEAR PROPER PROTECTIVE EQUIPMENT. VENTILATE AREA. AVOID RUNOFF INTO STORM SEWERS AND DITCHES WHICH LEAD TO WATERWAYS. NEUTRALIZE SPILL WITH SODA ASH OR LIME. COVER WITH INERT ABSORBENT. PLACE IN SUITABLE CONTAINER FOR DISPOSAL.

Neutralizing Agent:SODA ASH OR LIME

===== Handling and Storage =====

Handling and Storage Precautions:STORE IN COOL, WELL VENTILATED AREA, AWAY FROM INCOMPATIBLE SUBSTANCES.

Other Precautions:CORROSIVE AND TOXIC. DO NOT TOUCH MATERIAL. KEEP

CONTAINER TIGHTLY CLOSED. WASH THOROUGHLY AFTER HANDLING. AVOID BREATHING VAPORS. DO NOT GET IN EYES, ON SKIN OR ON CLOTHING. KEEP OUT OF REACH OF CHILDREN.

===== Exposure Controls/Personal Protection =====

Respiratory Protection:IF ENGINEERING CONTROLS ARE INADEQUATE TO CONTROL VAPOR CONCENTRATIONS TO AN ACCEPTABLE LEVEL, A NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS/SUPPLIED-AIR RESPIRATOR SHOULD BE WORN.

Ventilation:PRO

VIDE SUFFICIENT MECHANICAL (GENERAL AND/OR LOCAL EXHAUST) VENTILATION TO MAINTAIN EXPOSURE BELOW TLV(S).

Protective Gloves:PVC

Eye Protection:SPLASH-PROOF SAFETY GOGGLES & FACESHIELD

Other Protective Equipment:EYE WASH STATION, QUICK DRENCH SHOWER AND IMPERVIOUS CLOTHING

Work Hygienic Practices:OBSERVE GOOD INDUSTRIAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES. WASH BEFORE EATING OR DRINKING.

Supplemental Safety and Health

===== Physical/Chemical Properties =====

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HCC:C1

NRC/State Lic Num:NOT RELEVANT

Boiling Pt:B.P. Text:DECOMPOSES

Decomp Temp:Decomp Text:221F,105C

Vapor Pres:215 @ 167F

Spec Gravity:1.23

pH: