

HARCROS CHEMICALS INC. -- HYDROFLUOSILICIC ACID 23 %,14814 -- 6810-00-935-5817

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Product Identification  
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Product ID:HYDROFLUOSILICIC ACID 23 %,14814

MSDS Date:10/22/1997

FSC:6810

NIIN:00-935-5817

MSDS Number: CFVWP

=== Responsible Party ===

Company Name:HARCROS CHEMICALS INC.

Address:5200-SPEAKER ROAD

Box:2383

City:KANSAS CITY

State:KS

ZIP:66106-1095

Country:US

Info Phone Num:913-321-313

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Emergency Phone Num:913-321-3131/800-424-9300(CHEMTREC)

CAGE:3H606

=== Contractor Identification ===

Company Name:HARCROS CHEMICALS INC.

Address:5200-SPEAKER ROAD

Box:2383

City:KANSAS CITY

State:KS

ZIP:66106-1095

Country:US

Phone:913-321-3131

CAGE:3H606

Company Name:JEM SALES INC INCHEMCO DIV

Address:430 LAVENDER DR

Box:City:ROME

State:GA

ZIP:30165-2262

Country:US

Phone:706-232-1709

CAGE:0AZD7

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Composition/Information on Ingredients  
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Ingred Name:HYDROFLUOROSILIC

IC ACID

CAS:16961-83-4

RTECS #:VV8225000

Fraction by Wt: 30% MAX

Other REC Limits:ACGIH: 2.5 MG/M3 (F)

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

LD50 LC50 Mixture:LD50 (ORAL, RAT) IS UNKNOWN.

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:TARGET ORGANS:BONES, TEETH, LUNGS,  
BLOOD, LIVER, KIDNEYS. ACUTE- EYES/SKIN:CAUSES SEVERE BURNS,  
BLINDNESS. EFFECTS MAY BE DELAYE

D. CAN BE ABSORBED THROUGH SKIN.

ORAL:CAUSES SEVERE BURNS. INHALE:SEVERE IRRITATION, BURNS, COMA,  
EVEN DEATH. OVEREXPOSURE MAY DAMAGE BONES, TEETH, LIVER, KIDNEYS,  
BLOOD. CHRONIC- UNKNOWN.

Explanation of Carcinogenicity:NONE

Effects of Overexposure:SEVERE IRRITATION, SEVERE BURNS, COUGH, NAUSEA,  
RESPIRATORY FAILURE, REDNESS OF EYES, BLURRED VISION, BURNING  
SENSATION IN MOUTH AND PHARYNX, SALIVATION, ABDOMINAL PAIN,  
VOMITING BLOOD, DIARRHEA, DIFF ICULTY BREATHING, SHOCK,

RAPID

PULSE, DEATH

Medical Cond Aggravated by Exposure:INDIVIDUALS WITH PRE-EXISTING  
DISEASES OF THE EYE, SKIN, RESPIRATORY TRACT, LIVER, KIDNEYS, BONE,  
BLOOD MAY HAVE INCREASED SUSCEPTIBILITY TO THE TOXICITY OF  
EXCESSIVE EXPOSURES.

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

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

EYES/SKIN:FLUSH WITH WATER FOR AT LEAST 15 MINUTES. HOLD EYELIDS  
OPEN. INHALED:MOVE TO FRESH AIR. PROVIDE CP

R/OXYGEN IF NECESSARY.

ORAL:DO NOT IND UCE VOMITING. IF CONSCIOUS, RINSE MOUTHWITH WATER.  
DRINK 2-4 CUPFULS OF MILK/WATER. NEVER GIVE ANYTHING BY MOUTH TO AN  
UNCONSCIOUS PERSON.

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===== 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 Procedu

res: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. COVE

R WITH INERT

ABSORBENT. PLACE IN SUITA BLE 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 CHIL DREN.

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

Protective Gloves:PVC

Eye Protection:SPLASH-PROOF SAFETY GOGG  
LES & 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

PERCENTAGE CHANGED. FOR PREVIOUS CONCENTRATION SEE PNI A, SAME NSN.

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

HCC:C1

NRC/State Lic Num:NOT RELEVANT

Boiling Pt:B.P. Text:222F,106C

Melt/Freeze Pt:M.P/F.

P Text:16.0F,-8.9C  
Vapor Pres:24 @ 77F  
Spec Gravity:1.17 - 1.27  
pH:>=1.2  
Solubility in Water:COMPLETE

Appearance and Odor:COLORED LIQUID WITH A SHARP ODOR

===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid:YES  
CERTAIN METALS, INORGANIC ACIDS, STRONG ALKALIS, ORGANIC BASES, GLASS,  
CLAYS, ORGANIC NITROGEN COMPOUNDS  
Stability Condition to Avoid:EXCESSIVE HEAT  
Hazardous Decomposition Products:FLUORIDE FUMES, HYDROGEN FLUORIDE

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===== Disposal Considerations =====

Waste Disposal Methods:DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE AND  
FEDERAL REGULATIONS. REUSING OR RECYCLING IS RECOMMENDED.

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