

HARCROS CHEMICALS INC. -- HYDROFLUOSILICIC ACID 23% -- 6815-00-935-5817

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Product Identification
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Product ID:HYDROFLUOSILICIC ACID 23%

MSDS Date:05/12/1993

FSC:6815

NIIN:00-935-5817

MSDS Number: BZNSJ

=== 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:913-321-3131

Emergency Ph

one Num:913-321-3131

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:HOC INDUSTRIES, INC

Address:3511 N. OHIO

Box:2609

City:WICHITA

State:KS

ZIP:67219

Country:US

Phone:316-838-4663

CAGE:0A9L8

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Composition/Information on Ingredients
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Ingred Name:HYDROFLUOROSILICIC ACID

CAS:16961-83-4

RTECS #:VV8225000

Fract

ion by Wt: 20-30%
Other REC Limits:2.5 MG/M3

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

LD50 LC50 Mixture:PRODUCT'S LD50 (ORAL RAT) WAS NOT STATED
Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:PRODUCT IS CORROSIVE TO BODY TISSUES
CAUSING DEEP PENETRATING BURNS, THE PAIN OF WHICH IS DELAYED.
EYE:MAY CAUSE SEVERE IRRITATION OR BURNS. SKIN:SEVERE BURNS, PAIN,
TISSUE DESTRUCTION. MAY BE ABSORBED IN HARMFUL AMOUNTS.
INHALATION:SEVERE IRRITATION, COUGHING, CHOKING, DAMAGE.
INGESTION:BURNS, NAUSEA, ULCERATION.
Explanation of Carcinogenicity:MANUFACTURER GAVE NO INFORMATION ABOUT
CARCINOGENICITY. HMIS FOUND NO LISTING & DOES NOT EXPECT IT TO BE
CARCINOGENIC.
Effects of Overexposure:EYE:SEVERE IRRITATION, SEVERE BURNS,
IRREVERSABLE DAMAGE. SKIN:IRRITATION/TISSUE DAMAGE, PAIN,
ABSORPTION W/LOWERED BLOOD CALCIUM LEVEL. INHALED:SEVERE
IRRITATION, COUGHING, CHOKING, PULMONARY EDEMA, LOWERED BLOOD
CALCIUM. INGESTION:NAUSEA, VOMITING, DIARRHEA, BURNS/TISSUE
ULCERATION, LOWERED BLOOD CALCIUM LEVEL.
Medical Cond Aggravated by Exposure:OVEREXPOSURE MAY AGGRAVATE
DISORDERS OF THE EYES, SKIN, RESPIRATORY TRACT.

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

First Aid:IN ALL CASES OF OVEREXPOSURE, GET MEDICAL ATTENTION.
EYE:FLUSH W/WATER FOR 15 MIN. SKIN:WASH W/SOAP & WATER. REMOVE
CONTAMINATED CLOTHING & LAUNDRY BEFORE REUSE. INHALED:REMOVE FROM
EXPOSURE. AID OR RESTORE BREATHING AS NEEDED. INGESTED:DO NOT
INDUCE VOMITING. RINSE MOUTH THEN GIVE 1-2 GLASSES OF WATER TO DRINK &
GET IMMEDIATE MEDICAL ATTENTION. IF VOMITING OCCURS, PREVENT
ASPIRATION INTO LUNGS.

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

Lower Limits:N/D
Upper Limits:N/D
Extinguishing Media:AS APPROPRIATE FOR SURROUNDING FIRE. USE WATER TO
COOL CONTAINERS EXPOSED TO FIRE

RE.

Fire Fighting Procedures:PREVENT HUMAN EXPOSURE TO FIRE, FUMES, SMOKE & PRODUCTS OF COMBUSTION. EVACUATE NON ESSENTIAL PERSONNEL. WEAR FULL FACE SCBA & IMPERVIOUS PROTECTIVE CLOTHING.

Unusual Fire/Explosion Hazard:TOXIC FUMES MAY BE RELEASED.

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

Spill Release Procedures:EVACUATE AREA, ELIMINATE IGNITION SOURCES & WEAR THE PROPPER PROTECTIVE EQUIPMENT. SHUT OFF LEAK IF SAFE & CONTAIN SPILL. RECOVER FREE PRODUCT

. FLUSH SPARINGLY W/WATER.

NEUTRALIZE SPILL & WASHINGS. IF REQUIRED, NOTIFY AUTHORITIES.

Neutralizing Agent:HYDRATED LIME, SODA ASH OR SODIUM BICARBONATE.

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

Handling and Storage Precautions:KEEP CONTAINER CLOSED WHEN NOT IN USE. STORE IN A COOL DRY PLACE. KEEP OUT OF REACH OF CHILDREN. DO NOT USE GLASS CONTAINERS.

Other Precautions:"EMPTY" CONTAINERS RETAIN RESIDUE & CAN IGNITE EXPLOSIVELY. DO NOT CUT, DRILL, OR

WELD ON OR NEAR FULL OR EMPTY

CONTAINERS. WEAR PROTECTIVE EQUIPMENT WHEN HANDLING. USE ONLY W/ADEQUATE VENTILATION. WA SH THOROUGHLY AFTER HANDLING.

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

Respiratory Protection:USE A RESPIRATOR APPROVED BY NIOSH/MSHA FOR CONDITIONS OF EXPOSURE. COMPLY W/OSHA 29CFR1910.134. FOR EMERGENCIES, HAVE READILY AVAILABLE & USE A NIOSH/MSHA APPROVED POSITIVE PRESSURE BREATHING APPARAT US.

Ventilation:USE ADEQUATE VENTILA

TION TO MINIMIZE EXPOSURE OR TO

MAINTAIM EXPOSURES BELOW OSHA/ACGIH REQUIREMENTS.

Protective Gloves:IMPERVIOUS GLOVES

Eye Protection:FACE SHIELD & SAFETY GLASSES

Other Protective Equipment:ACID PROOF CLOTHING, RUBBER BOOTS & APRON, SAFETY SHOWER, EYE BATH AND WASHING FACILITIES

Work Hygienic Practices:WASH WITH SOAP AND WATER BEFORE EATING, DRINKING, SMOKING OR USING TOILET FACILITIES. CLEAN UNDER FINGERNAILS.

Supplemental Safety and Health

DO NOT SWALLOW. DO NOT USE GLASS CONTAI

NEERS. FOR INDUSTRIAL USE ONLY.

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

HCC:C1
NRC/State Lic Num:NONE
Boiling Pt:B.P. Text:>222F,>106C
Melt/Freeze Pt:M.P/F.P Text:16.0F,-8.9C
Vapor Pres:24 MM
Vapor Density:N/D
Spec Gravity:1.27
pH:>1.2
Evaporation Rate & Reference:N/D
Solubility in Water:COMPLETE
Appearance and Odor:COLORED LIQUID, SHARP ODOR.
Percent Volatiles by Volume:N/D

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

Stability Indicato
r/Materials to Avoid:YES
METALS/METAL BLENDS, INORGANIC ACIDS & BASES, CLAYS, ORGANIC NITROGEN
COMPOUNDS. CONTACT W/METALS MAY GENERATE HYDROGEN.
Stability Condition to Avoid:MFR GAVE NO INFORMATION ON MSDS.
Hazardous Decomposition Products:HYDROGEN FLUORIDE

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

Waste Disposal Methods:AVOID DISCHARGE TO WATERWAYS OR SEWERS. DISPOSE
OF SOLIDS W/A PERMITTED HAZARDOUS WASTE MANAGEMENT FACILITY.
REPROCESS OR INCINERATE LIQ
UIDS IN A PERMITTED FACILITY. DISPOSE OF
I/AW ALL FEDERAL, STAT E & LOCAL REGULATIONS.

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