

VAN WATERS AND ROGERS INC -- HYDROFLUORIC ACID -- 6810-00-236-5671

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Product Identification
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Product ID:HYDROFLUORIC ACID

MSDS Date:06/01/1993

FSC:6810

NIIN:00-236-5671

MSDS Number: BRKCF

=== Responsible Party ===

Company Name:VAN WATERS AND ROGERS INC

Address:2600 CAMPUS DRIVE

Box:5932

City:SAN MATEO

State:CA

ZIP:94403-2522

Country:US

Info Phone Num:408-435-8700

Emergency Phone Num:415-

573-8000/800-424-9300(CHEMTREC)

Preparer's Name:C.A. EISENHARD

CAGE:87664

=== Contractor Identification ===

Company Name:CHEMICAL COMMODITIES AGENCY, INC.

Address:27447 PACIFIC STREET

Box:City:HIGHLAND

State:CA

ZIP:92346-2640

Country:US

Phone:909-864-2310

CAGE:60777

Company Name:VAN WATERS AND ROGERS INC., UNIVAR CORP.

Address:1600 NORTON BLDG. 801 2ND AVENUE

Box:City:SEATTLE

State:WA

ZIP:98104-1564

Country:US

Phone:206-447-5911/800-424-9300(CHEMTREC)

CAGE:87664

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Composition/Infor

mation on Ingredients =====

Ingred Name:HYDROGEN FLUORIDE (SARA III)

CAS:7664-39-3

RTECS #:MW7875000

Fraction by Wt: 30-70%

Other REC Limits:NONE SPECIFIED

OSHA PEL:3 PPM/6 STEL (F)

ACGIH TLV:C 3 PPM (F); 9293

EPA Rpt Qty:100 LBS

DOT Rpt Qty:100 LBS

Ingred Name:WATER

CAS:7732-18-5

RTECS #:ZC0110000

Fraction by Wt: BALANCE

Other REC Limits:NONE RECOMMENDED

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

LD50 LC50 Mixture:INHL-RAT LC50: 1276 PPM/1 HOUR

Routes of

Entry: Inhalation:YES Skin:YES Ingestion:YES

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

Health Hazards Acute and Chronic:ACUTE-EYES/SKIN:CORROSIVE, BURNS, BLINDNESS. INHALATION:CORROSIVE TO RESPIRATORY TRACT. BREATHING HIGH CONCENTRATIONS MAY RESULT IN DEATH. INGESTION:HARMFUL/FATAL IF SWALLOWED. SEVERE BURNS OF INTESTINAL TRACT. CHRONIC-CHEMICAL PNEUMONITIS, BRONCHITIS, TEETH ERSION.

Explanation of Carcinogenicity:HYDROFLUORIC ACID IS NOT LISTED BY IARC, NTP, OR

OSHA AS A CARCINOGEN.

Effects of Overexposure:INFLAMMATION OF THE NOSE, THROAT, UPPER RESPIRATORY TRACT, IRRITATION, COUGH, CHEST PAIN, NAUSEA, VOMITING, COLLAPSE. VERY CORROSIVE CAUSES SEVERE BURNS AND DAMAGE TO ALL TISSUES.

Medical Cond Aggravated by Exposure:PERSONS WITH A HISTORY OF AILMENTS OR WITH A PRE-EXISTING DISEASE INVOLVING THE EYES, SKIN, OR RESPIRATORY TRACT MAY BE AT INCREASED RISK FROM EXPOSURE.

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

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First Aid:INHALATION:MOVE TO FRESH AIR. IF BREATHING HAS STOPPED, GIVE ARTIFICIAL RESPIRATION AND OXYGEN IF NEEDED. SKIN: REMOVE CONTAMINATED CLOTHING. FLUSH AFFECTED AREAS WITH PLENTY OF WATER. EYES:IMMEDIATELY FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. INGESTION:IF CONSCIOUS, GIVE 2-3 GLSSED OF WATER/MILK TO DRINK. DO NOT INDUCE VOMITING. GET MEDICAL ATTENTION

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

Flash Point:NONE

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on Temp:Autoignition Temp Text:NONE

Extinguishing Media:USE WATER ON FIRES IN WHICH HYDROFLUORIC ACID IS INVOLVED.

Fire Fighting Procedures:WEAR FIRE FIGHTING PROTECTIVE EQUIPMENT AND A FULL FACED SELF CONTAINED BREATHING APPARATUS. EVACUATE AREA. COOL FIRE EXPOSED CONTAINERS WITH WATER SPRAY.

Unusual Fire/Explosion Hazard:NONCOMBUSTIBLE BUT DIFFICULT TO CONTAIN AS IT CORRODES MOST SUBSTANCES EXCEPT LEAD, POLYETHYLENE AND PLATINUM. MAY GENERATE HYDROGEN IN CONTACT W/ METALS.

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

Spill Release Procedures:VENTILATE AREA, WEAR PROTECTIVE EQUIPMENT. SMALL SPILL:NEUTRALIZE AND FLUSH WITH EXCESS WATER. LARGE SPILL: EVACUATE AND VENTILATE AREA. IF POSSIBLE, STOP LEAK. DIKE TO RETAIN RUN OFF. NEUTRALIZE & PICK UP WITH ABSORBENT.

Neutralizing Agent:SODA ASH, OR LIME.

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

Handling and Storage Precautions:PROTECT AGAINST PHYSICAL DAMAGE. STORE

IN WELL-VENTILATED AREA, SEPARATED FROM INCOMPATIBLES. WEAR SPECIAL PROTECTIVE CLOTHING WHEN HANDLING.

Other Precautions:FOR INDUSTRIAL USE ONLY. SEE CHEMICAL SAFETY DATA SHEET SD-25 (MANUFACTURING CHEMISTS' ASSOCIATION, INC.)

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

Respiratory Protection:IF VENTILATION DOES NOT MAINTAIN INHALATION EXPOSURES BELOW PEL(TLV), USE NIOSH APPROVED FULL FACEPIECE CHEMICAL CARTRIDGE RESPIRATOR OR A SUPPLIED AI

R FULL FACEPIECE
RESPIRATOR.

Ventilation:LOCAL EXHAUST IS RECOMMENDED TO KEEP EMPLOYEE EXPOSURES
BELOW TLV.

Protective Gloves:NEOPRENE OR PVC GLOVES

Eye Protection:CHEMICAL SAFETY GOGGLES WITH FACE SHIELD

Other Protective Equipment:EYE WASH STATION AND SAFETY SHOWER.
IMPERVIOUS BOOTS, APRON, AND COVERALLS.

Work Hygienic Practices:OBSERVE GOOD PERSONAL HYGIENE PRACTICES AND
RECOMMENDED PROCEDURES. DO NOT WEAR CONTAMINATED CLOTHING OR
FOOTWEAR.

Supplemental Safety and Health

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OID ANY EXPOSURE. DO NOT GET ON SKIN OR IN EYES. DO NOT BREATHE
VAPORS OR MISTS.

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

HCC:C1

Boiling Pt:B.P. Text:>152F,67C

Vapor Pres:14-130MMHG

Vapor Density:1.26

Spec Gravity:>1.12

pH:1.0

Solubility in Water:COMPLETE

Appearance and Odor:CLEAR, COLORLESS LIQUID, STRONG IRRITATING ODOR.

Percent Volatiles by Volume:100

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

Stability Indicator/Materials to Avoid:

YES

ALKALIS, OXIDIZING OR REDUCING MATERIALS, CYANIDES, SULFIDES, GLASS,
CONCRETE, METALS, ORGANIC MATTER.

Hazardous Decomposition Products:WHEN HEATED TO DECOMPOSITION, EMITS
TOXIC HYDROGEN FLUORIDE FUMES.

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

Waste Disposal Methods:DISPOSAL SHOULD BE MADE IN ACCORDANCE WITH ALL
APPLICABLE FEDERAL, STATE AND LOCAL LAWS AND REGULATIONS. DISPOSE
IN A RCRA-APPROVED WASTE FACILITY OR SEWER THE NEUTRALIZED SLURRY

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ITH EXCESS WATER IF LOCAL ORDINANCES ALLOW.

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