

VAN WATERS AND ROGERS -- HYDROCHLORIC ACID -- 6810-01-340-5178

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

Product ID:HYDROCHLORIC ACID

MSDS Date:06/05/1989

FSC:6810

NIIN:01-340-5178

MSDS Number: BMQQW

=== Responsible Party ===

Company Name:VAN WATERS AND ROGERS

Address:2256 JUNCTION AVE

City:SAN JOSE

State:CA

ZIP:95131

Country:US

Info Phone Num:206-447-5911 OR 714-864-2310

Emergency Phone Num:408-435-8700

OR 714-864-2310

CAGE:0AN91

=== 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

Address:2256 JUNCTION AVE

City:SAN JOSE

State:CA

ZIP:95131

Country:US

Phone:408-435-8700/800-424-9300(CHEMTREC)

CAGE:0AN91

===== Composition/Information on Ingredients =====

Ingred Name:HYDROGEN CHLORIDE (HYDROCHLORIC ACID)

(SARA III) *
CAS:7647-01-0
RTECS #:MW4025000
Fraction by Wt: 27.9-35%
OSHA PEL:C 5 PPM *
ACGIH TLV:C 5 PPM; 9192 *
EPA Rpt Qty:5000 LBS
DOT Rpt Qty:5000 LBS

Ingred Name:WATER
CAS:7732-18-5
RTECS #:ZC0110000
Fraction by Wt: BALANCE
Other REC Limits:NONE SPECIFIED

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

LD50 LC50 Mixture:LD50 (ORAL, RABBIT) 900 MG/KG
Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health
Hazards Acute and Chronic:ACUTE-EXTREMELY CORROSIVE.EYE:MAY
CAUSE INJURY & BLINDNESS.SKIN:WILL SEVERELY BURNS.INHALE:IRRITATES
NOSE,THROAT & MUCOUS MEMBRANES.COUGHING,CHEST PAIN & DIFFICULTY IN
BREATHING MAY OCCUR. HIGH CONCEN TRATION MAY CAUSE DEATH.ORAL:BURNS
TISSUE.CAUSES VOMITING, ABDOMINAL PAIN,NAUSEA &
COLLAPSE.CHRONIC-LUNG & SKIN DISEASES

Effects of Overexposure:EXTREMELY CORROSIVE. MAY CAUSE EYE INJURY &
BLINDNESS. WILL SEVERELY BURNS SKIN. INHALATION IRRITATES NO
SE,

THROAT & MUCOUS MEMBRANES. COUGHING, CHEST PAIN & DIFFICULTY IN
BREATHING MAY OCCUR. HIGH CO NCENTRATION MAY CAUSE DEATH. ORALLY
BURNS TISSUE. CAUSES VOMITING, ABDOMINAL PAIN, NAUSEA & COLLAPSE.
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 MEDICAL ATTEN

TION IMMEDIATELY.EYE/SKIN: IMMEDIATELY FLUSH WITH WATER FOR AT LEAST 15 MINUTES.HOLD EYELIDS OPEN. INHALED:REMOVE TO FRESH AIR & PROVIDE OXYGEN/CPR IF NEEDED.ORAL:DO NOT INDUCE VOMITING.IF CONSCIOUS,DRINK 1-2 GLASSES OF WATER.CALL A PHYSICIAN IMMEDIATELY.

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

Flash Point:NONE

Extinguishing Media:WATER SPRAY, CO2, FOAM/DRY CHEMICAL. WATER SPRAY MAY BE USED TO KEEP FIRE EXPOSED CONTAINERS COOL & FLUSH SPILLS

AWAY.

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:EXTINGUISH ALL NEARBY SOURCES OF IGNITION SINCE FLAMMABLE HYDROGEN GAS WILL BE LIBERATED FROM CONTACT WITH SOME METALS.

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

Spill Release Procedures:WEAR PROPER PROTECTIVE EQUIPMENT. VENTILATE AREA. DO NOT RELEASE INTO SOIL, SEWER, STREAM. STOP LEAK IF POSSIBLE. NEUTRALIZE WITH SODA ASH OR LIME. WITH CLEAN SHOVEL, PLACE MATERIAL INTO CLEAN CONTAINER FOR DISPOSAL. FLUSH SPILL AREA WITH WATER.

Neutralizing Agent:SODA-ASH

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

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

Other Precautions:KEEP CONTAINER TIGHTLY CLOSED.DO NOT USE PRESSURE TO EMPTY CONTAINER.WASH THOROUGHLY AFTER HANDLING.DO NOT GET IN EYES,ON SKIN OR ON CLOTHING. DO NOT BREATHE MISTS OR VAPORS. DO NOT CUT, GRIND, WELD OR DRILL ON OR NEAR THIS CONTAINER.

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

Respiratory Protection:WEAR NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS OPERATED IN POSITIVE PRESSURE MODE OR SUPPLIED-AIR RESPIRATOR WITH FULL FACEPIECE AND OPERATED IN PRESSURE-DEMAND OR OTHER POSITIVE PRESSURE MODE .

Ventilation:

LOCAL EXHAUST & MECHANICAL (GENERAL) FUME HOOD VENTILATION.

Protective Gloves:RUBBER GLOVES

Eye Protection:SAFETY GOGGLES/FACE SHIELD

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

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

Supplemental Safety and Health

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

HCC:C1

Boiling Pt:B.P. T

ext:150F,66C

Vapor Pres:30 @ 77F

Spec Gravity:1.16

Solubility in Water:COMPLETE

Appearance and Odor:COLORLESS TO PALE YELLOW LIQUID WITH A PUNGENT, IRRITATING ODOR.

Percent Volatiles by Volume:100

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

Stability Indicator/Materials to Avoid:YES

ALKALIES, OXIDIZERS, REDUCING AGENTS, CYANIDES, SULFIDES, COMBUSTIBLE MATERIALS, FORMALDEHYDE, AMINES, METAL OXIDES

Stability Condition to Avoid:EXCESSIVE HEAT, FLAME

Hazardous Decom

position Products:HYDROGEN CHLORIDE FUMES.

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

Waste Disposal Methods:DISPOSE OF IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS. EMPTY CONTAINERS CAN HAVE RESIDUES, GASES AND MISTS AND ARE SUBJECT TO PROPER WASTE DISPOSAL, AS ABOVE.

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