

SPECTRUM CHEMICAL MFG CORP -- H3290, HYDROCHLORIC ACID -- 6810-00-753-4786

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

Product ID:H3290, HYDROCHLORIC ACID

MSDS Date:06/23/1999

FSC:6810

NIIN:00-753-4786

MSDS Number: CJTFG

=== Responsible Party ===

Company Name:SPECTRUM CHEMICAL MFG CORP

Address:14422 SOUTH SAN PEDRO STREET

City:GARDENA

State:CA

ZIP:90248

Country:US

Info Phone Num:310-516-8000

Emergency Pho

ne Num:310-516-8000

Resp. Party Other MSDS Num.:H3290

Preparer's Name:G.A. BINAS

Chemtrec Ind/Phone:(800)424-9300

CAGE:63415

=== Contractor Identification ===

Company Name:CHEMICAL MANAGEMENT SYSTEMS LLC DBA CHEMICAL MANAGEMENT
SYST

Address:11029 NATURAL BRIDGE

Box:City:BRIDGETON

State:MO

ZIP:63044

Country:US

Phone:314-731-7278

Contract Num:SP0450-00-M-D116

CAGE:1LFJ4

Company Name:MEXPAR INTL, INC

Address:532 W. FOOTHILL BLVD

Box:City:AZUSA

State:CA

ZIP:91702

Country:US

Phone:626-812-6211

Co

ntract Num:SP0450-00-M-D711
CAGE:0P0U1
Company Name:SPECTRUM LABORATORY PRODUCTS INC
Address:14422 S SAN PEDRO ST
Box:City:GARDENA
State:CA
ZIP:90248-2027
Country:US
Phone:310-516-8000/FAX: 310-516-9843
CAGE:63415

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

Ingred Name:HYDROGEN CHLORIDE
CAS:7647-01-0
RTECS #:MW4025000
= Wt:37.
Other REC Limits:NOT PROVIDED.
OSHA PEL:C7 MG/M3;C5 PPM
ACGIH STEL:C7.5 MG/M3;C5 PPM
EPA Rpt Qty:5000 LBS
DOT Rpt Qty:5000 LBS

Ingred Name:WATE
R
CAS:7732-18-5
RTECS #:ZC0110000
= Wt:63.
Other REC Limits:NOT PROVIDED.

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

LD50 LC50 Mixture:VAPOR (LC50) ACUTE: 1562 PPM 4 HRS (RAT)
Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES
Health Hazards Acute and Chronic:ACUTE: EXTREMELY HAZARDOUS BY
INGESTION/INHALATION. VERY HAZARDOUS BY SKIN CONTACT (CORROSIVE,
PERMEATOR), OF EYE CONTACT (IRRITANT). LIQUID/SPRAY MIST MAY
PRODUCE TISSUE DAMAGE ON MUCOUS MEMBRA
NES OF EYES, MOUTH AND
RESPIRATORY TRACT. SKIN CONTACT MAY PRODUCE BURNS, ITCHING,
SCALING, REDDENING, BLISTERING. INHALATION OF MIST MAY PRODUCE
SEVERE IRRITATION, COUGHING, CHOKING, SHORTNESS OF BREATH.
INFLAMMATION OF EYE IS CHARACTERIZED BY REDNESS, WATERING, AND
ITCHING. CHRONIC- MAY PRODUCE TARGET ORGANS DAMAGE, SEVERE EYE AND
SKIN IRRITATION. MIST MAY PRODUCE RESPIRATORY IRRITATION LEADING TO
F REQUENT ATTACKS OF BRONCHIAL INFECTION.

Explanation of Carcinog

enicity:NOT AVAILABLE.

Effects of Overexposure:SKIN CONTACT MAY PRODUCE BURNS, ITCHING, SCALING, REDDENING, BLISTERING. INHALATION OF MIST MAY PRODUCE SEVERE IRRITATION, COUGHING, CHOKING, SHORTNESS OF BREATH. EYE CONTACT MAY CAUSE REDNESS, WATE RING, AND ITCHING

Medical Cond Aggravated by Exposure:NO DATA PROVIDED BY RESPONSIBLE PARTY.

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

First Aid:EYE: CHECK AND REMOVE CONTACT LENSES. IMMEDIATELY FLUSH EYES

WITH WATER FOR AT LEAST 15 MINUTES HOLDING EYELIDS OPEN. DO NOT USE AN EYE OINTMENT. SEEK MEDICAL ATTENTION. SKIN: GENTLY AND THOROUGHLY WA SH WITH RUNNING WATER AND NON-ABRASIVE SOAP. IN CASE OF SEROUS CONTACT USE A DISINFECTANT SOAP AND SEEK MEDICAL ATTENTION. INHALATION: REMOVE TO FRESH AIR. LOOSEN TIGHT CLOTHING. IF BREATHING IS DIFFI CULT, ADMINISTER OXYGEN. IF VICTIM IS NOT BREATHING, PERFORM MOUTH-TO-MOUTH RESUSCITATION. SEEK IMMEDIATE MEDICAL ATTENTION. ING
ESTION: DO NOT INDUCE VOMITING. LOOSEN TIGHT CLOTHING SUCH AS COLLAR, B ELT. SEEK IMMEDIATE MEDICAL ATTENTION.

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

Flash Point:NON-FLAMMABLE

Extinguishing Media:NOT APPLICABLE.

Fire Fighting Procedures:NOT APPLICABLE.

Unusual Fire/Explosion Hazard:NON-COMBUSTIBLE. RISKS OF EXPLOSION OF THE PRODUCT IN PRESENCE OF MECHANICAL IMPACT: NOT AVAILABLE. RISKS OF EXPLOSION OF THE PRODUCT IN PRESENCE OF STATIC DISCHARGE: NOT AVAILABLE.

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

Spill Release Procedures:SMALL SPILL: DILUTE WITH WATER. MOP UP/ABSORB WITH INERT DRY MATERIAL. PLACE IN AN APPROPRIATE CONTAINER FOR DISPOSAL. LARGE SPILL: CORROSIVE. STOP LEAK IF WITHOUT RISK. ABSORB WITH DRY EARTH, SAND, O R OTHER NON-COMBUSTIBLE MATERIAL. DO NOT GET WATER INSIDE CONTAINER. DO NOT TOUCH SPILL. USE WATER SPRAY CURTAIN TO DIVERT VAPOR DRIFT. NEUTRALIZE RESIDUE WITH DILUTE

SOLUTION OF SODIUM CARBONATE.

Neutralizing Agent:DILUTE SOLUTION OF SODIUM CARBONATE

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

Handling and Storage Precautions:MAY CORRODE METALLIC SURFACES. STORE IN METALLIC OR COATED FIBERBOARD DRUM USING A STRONG POLYETHYLENE INNER PACKAGE. CORROSIVE MATERIALS SHOULD BE STORED IN A SEPARATE SAFETY STORAGE CABINET OR ROOM.

Other Precautions:KEEP CONTAINER DRY. DO NOT INGEST. DO NOT BREATHE GAS/FUMES/VAPOUR/SPRAY. NEVER ADD WATER TO PRODUCT. IF INSUFFICIENT VENTILATION, WEAR SUITABLE RESPIRATORY EQUIPMENT. IF INGESTED, SEEK MEDICAL ADVICE IMMEDIATELY. AVOID CONTACT WITH SKIN AND EYES.KEEP AWAY FROM INCOMPATIBLES SUCH AS METALS, ALKALIS.

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

Respiratory Protection:VAPOR RESPIRATOR: BE SURE TO USE AN APPROVED/CERTIFIED RESPIRATOR OR EQUIVALENT. A SELF-CONTAINED BREATHING APPARATUS SHOULD BE USED TO AVOID INHALATION OF THE PRODUCT.

Ventilation:PROVIDE EXHAUST VENTILATION OR OTHER ENGINEERING CONTROLS TO KEEP THE AIRBORNE CONCENTRATIONS OF VAPORS BELOW THEIR RESPECTIVE THRESHOLD LIMIT VALUE.

Protective Gloves:NITRILE/SILVER SHIELD/SUPPORTED NEOPRENE GLOVE.

Eye Protection:CHEMICAL SPLASH GOGGLES, NON-VENTED. FACE SHIELD.

Other Protective Equipment:ENSURE THAT EYEWASH STATIONS AND SAFETY SHOWERS ARE PROXIMAL TO THE WORK-STATION LOCATION. FULL SUIT. VAPOR RESPIRATOR. BOOTS. GLOVES. VINYL APRON, PVC APRON, ACID JACKET, (20NNTL ACID) SARANEX COVERALL

Work Hygienic Practices:NO DATA PROVIDED BY RESPONSIBLE PARTY.

Supplemental Safety and Health

SUGGESTED PROTECTIVE CLOTHING MIGHT NOT BE SUFFICIENT FOR A LARGE SPILLS; CONSULT A SPECIALIST BEFORE HANDLING THIS PRODUCT. CONSULT LOCAL AUTHORITIES FOR ACCEPTABLE EXPOSURE LIMITS. WARNING: IF VICTIM HAS INHALED PRODUCT, MAY BE HAZARDOUS TO ADMINISTER MOUTH-TO-MOUTH RESUSCITATION TO PROVIDER OF AID.

===== Physical =====

/Chemical Properties =====

HCC:C1

Boiling Pt:=100.C, 212.F

B.P. Text:WATER

Melt/Freeze Pt:M.P/F.P Text:NOT AVAILABLE

Decomp Temp:Decomp Text:NOT AVAILABLE

Vapor Pres:HIGHEST 17.535 MM HG@20C

Vapor Density:0.62

Spec Gravity:1.19(WATER=1)

pH:1(ACIDIC.) 1%

Viscosity:NOT PROVIDED.

Evaporation Rate & Reference:NOT PROVIDED.

Solubility in Water:SOLUBLE IN COLD WATER.

Appearance and Odor:LIQUID. COLORLESS TO LIGHT YELLOW. PUNGENT (STRONG) ODOR.

Corrosion Rate:EXTREMELY CORROSIVE

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

Stability Indicator/Materials to Avoid:YES

HIGHLY REACTIVE WITH METALS, ALKALIS.

Stability Condition to Avoid:REACTS VIOLENTLY WITH WATER ESPECIALLY WHEN WATER IS ADDED TO THE PRODUCT.

Hazardous Decomposition Products:NOT AVAILABLE.

===== Toxicological Information =====

Toxicological Information:MATERIAL IS EXTREMELY DESTRUCTIVE TO TISSUE OF THE MUCOUS MEMBRANES AND UPPER RESPIRATORY TRACT. THE SUBSTANCE IS TOXIC TO LUNGS, MUCOUS MEMBRANES.

===== Ecological Information =====

Ecological:PRODUCT OR BIODEGRADATION: POSSIBLY HAZARDOUS SHORT TERM DEGRADATION PRODUCTS ARE NOT LIKELY. HOWEVER, LONG TERM DEGRADATION PRODUCTS MAY ARISE. TOXICITY OF THE PRODUCTS OF BIODEGRADATION: THE PRODUCTS OF BIODEGRADATION ARE AS TOXIC AS THE ORIGINAL PRODUCT.

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

Waste Disposal Met

hods:RECYCLE TO PROCESS, IF POSSIBLE. CONSULT YOUR LOCAL OR REGIONAL AUTHORITIES.

===== MSDS Transport Information =====

Transport Information:DOT CLASSIFICATION: CLASS 8: CORROSIVE LIQUID.
IDENTIFICATION: HYDROCHLORIC ACID SOLUTION: UN1789 PG: II

===== Regulatory Information =====

SARA Title III Information:SARA 302/304/311/312 EXTREMELY HAZARDOUS
SUBSTANCES: HYDROCHLORIC ACID. SARA 313 TOXIC CHEMICAL
NOTIFICAT
ION AND RELEASE REPORTING: HYDROCHLORIC ACID. CERCLA:
HAZARDOUS SUBSTANCES: HYDROCHLORIC ACID
Federal Regulatory Information:TSCA 8(B) INVENTORY: HYDROCHLORIC ACID.
OSHA: HAZARDOUS BY DEFINITION OF HAZARDOUS COMMUNICATION STANDARD
(29 CFR 1910.1200).
State Regulatory Information:PENNSYLVANIA RTK: HYDROCHLORIC ACID.
MASSACHUSETTS RTK: HYDROCHLORIC ACID. CALIFORNIA PROPOSITION 65: NO
PRODUCTS WERE FOUND.

===== Other Information =====

D
Disclaimer (provided with this information by the compiling agencies):
This information is formulated for use by elements of the Department
of Defense. The United States of America in no manner whatsoever,
expressly or implied, warrants this information to be accurate and
disclaims all liability for its use. Any person utilizing this
document should seek competent professional advice to verify and
assume responsibility for the suitability of this information to their
particular situation