

ANACHEMIA CHEMICALS INC -- HYDROCHLORIC ACID, 30%-38% -- 6810-01-454-9224

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Product Identification
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Product ID:HYDROCHLORIC ACID, 30%-38%
MSDS Date:10/30/1996
FSC:6810
NIIN:01-454-9224
Status Code:A
MSDS Number: CKCJV
=== Responsible Party ===
Company Name:ANACHEMIA CHEMICALS INC
Address:3 LINCOLN BLVD
City:ROUSES POINT
State:NY
ZIP:12979
Country:US
Info Phone Num:518-297-4444
Emergenc
y Phone Num:514.489.5711
Preparer's Name:MSDS DEPARTMENT
Chemtrec Ind/Phone:(800)424-9300
CAGE:4A444

=== Contractor Identification ===
Company Name:ANACHEMIA CHEMICALS INC
Address:3 LINCOLN BLVD
Box:City:ROUSES POINT
State:NY
ZIP:12979
Country:US
Phone:518-297-4444
CAGE:4A444

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Composition/Information on Ingredients
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Ingred Name:HYDROCHLORIC ACID
CAS:7647-01-0
RTECS #:MW4025000
Minumum % Wt:30.
Maxumum % Wt:38.
OSHA PEL:C7 MG/M3;C5 PPM
ACGIH STEL:C7.5 MG/M3;C5 PPM
EP

A Rpt Qty:5000 LBS
DOT Rpt Qty:5000 LBS

Ingred Name:WATER
CAS:7732-18-5
RTECS #:ZC0110000
Minumum % Wt:62.
Code:F
Maxumum % Wt:70.
Code:F

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===== Hazards Identification =====
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Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES
Health Hazards Acute and Chronic:HARMFUL BY INGESTION, INHALATION OR
SKIN ABSORPTION. CORROSIVE. TARGET ORGANS: SKIN, EYES, LUNGS,
RESPIRTORY SYSTEM. 100 PPM IS IMMEDIATELY DANGEROUS TO LIFE OR
HEALTH. EYES: EXTREMELY COR
ROSIVE. PROL ONGED CONTACT MAY CAUSE
PERMANENT EYE INJURY AND BLINDNESS. SKIN: SEVERE BURNS. INHALATION:
EXTREMELY DESTRUCTIVE TO MUCOUS MEMBRANES AND UPPER RESPIRATORY
TRACT. INHALATION MAY BE FATAL AS A RESULT O F SPASM, INFLAMMATION
AND EDEMA OF THE LARYNX, CHEMICAL PNEUMONITIS AND PULMONARY EDEMA.
INGESTION: BURNS IN MOUTH, PHARYNX, AND GASTROINTESTINAL TRACT.
ASPHYXIA MAY OCCUR FROM EDEMA OF THE GLOTTIS.
Effects of Overexposure:EYES: SEVERELY IRRITATING, DAMAGE, EYE
INJURY,
BLINDNESS. SKIN: SEVERE BURNS, PAIN, BROWNISH OR YELLOW STAINS:
PENETRATES FULL THICKNESS OF SKIN, DERMATITIS, PHOTOSENSITIZATION.
INHALATION: MUCOUS M EMBRANES AND UPPER RESPIRATORY TRACT TISSUE
DESTRUCTION, INFLAMATION AND EDEMA OF LARYNX AND BRONCHI, CHEMICAL
PNEUMONITIS, PULMONART EDEMA. BURNING SENSATION, COUGHING,
LARYNGITIS, DYSPNEA, HEADACHE , NAUSEA, VOMITING, LUNG DAMAGE.
INGESTION: BURNS IN MOUTH, PHARYNX, GI TRACT. WEAKNESS, NAUSEA,
VOMITING
, DYSPHAGIA, ABDOMINAL PAIN, CARDIOVASCULAR COLLAPSE,
CONVULSIONS, COMA, DEATH, ASPHYXIA.

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===== First Aid Measures =====
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First Aid:EYES: FLUSH WITH COPIOUS AMOUNTS OF WATER FOR 30 MINUTES.
HOLDING LIDS APART TO ENSURE FLUSHING ENTIRE SURFACE. SPEED IS
ESSENTIAL. GET MEDICAL ATTENTION. DO NOT USE CHEMICAL ANTIDOTES.
SKIN: FLUSH W ITH PLENTY OF WATER FOR 30 MINS. WHILE REMOVING
CONTAMINATED CLOTHING. GET MEDICAL ATTENTION. DO NOT USE CH

EMICAL

ANTIDOTES. INHALATION: MOVE TO FRESH AIR. IF BREATHING IS DIFFICULT, GIVE OXYGEN. IF NOT BREATHING, GIVE CPR. GET MEDICAL ATTENTION. INGESTION: WASH OUT MOUTH WITH WATER. GIVE SEVERAL GLASSES OF WATER OR MILK, REPEAT IF VOMITING. DO NOT INDUCE VOMITING. AIM TO DILUTE ACID 100 TIMES. GET MEDICAL ATTENTION.

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

Extinguishing Media:USE EXTINGUISHING MEDIA SUITABLE FOR SURROUNDING MATERIALS. COOL CONTAINING VESSELS W/FLOODING QUANTITIES OF WATER

UNTIL WELL AFTER FIRE IS OUT. DO NOT GET WATER INSIDE CONTAINER.

Fire Fighting Procedures:WEAR ADEQUATE PERSONAL PROTECTION TO PREVENT CONTACT WITH MATERIAL OR ITS COMBUSTION PRODUCT. SELF CONTAINED BREATHING APARATUS WITH FULL FACEPIECE OPERATED IN PRESSURE DEMAND OR OTHER POSITIVE PRESSURE MODE. COOL CONTAINERS WITH FLOODING AMOUNTS OF WATER UNTIL WELL AFTER FIRE IS OUT. DO NOT GET WATER INSIDE CONTAINER.

Unusual Fire/Explosion Hazard:

FLAMMABLE/EXPLOSIVE HYDROGEN GAS MAY BE FORMED UPON CONTACT OF THIS PRODUCT WITH METALS. THE SENSITIVITY TO IMPACT IS NOT APPLICABLE. THE SENSITIVITY TO STATIC DISCHARGE IS NOT APPLICABLE. EMITS TOXIC AND CORROSIVE FUMES UNDER FIRE CONDITIONS. FIRE DEGRADATION PRODUCTS: HYDROGEN CHLORIDE GAS.

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

Spill Release Procedures:EVACUTE AND VENTILATE AREA. COVER WITH SODA ASH OR LIME. THIS WILL RELEASE CARBON DIOXIDE, SO USE CAUTION.

PLACE IN SUITABLE CONTAINER AND MARK FOR DISPOSAL. WASH SPILL SITE AFTER MATERIAL PICK UP IS COMPLETE. DO NOT EMPTY INTO DRAINS. DO NOT TOUCH DAMAGED CONTAINER OR SPILLED MATERIAL. STAY UPWIND. KEEP OUT OF LOW AREAS.

Neutralizing Agent:SODA ASH OR LIME

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

Handling and Storage Precautions:STORE IN COOL, DRY, WELL VENTILATED PLACE AWAY FROM HEATED AREAS, SPARKS, FLAMES, DIRECT SUNLIGHT

HT,

STRONG INCONDESCENT LIGHT, INCOMPATIBLE MATERIALS. DO NOT ADD OTHER MATERIAL TO CONTAINER. DO NOT WASH DOWN THE DRAIN. DO NOT BREATHE GAS, FUMES, VAPORS, SPRAY. KEEP CONTAINER TIGHTLY CLOSED AND DRY.

Other Precautions:MANIPULATE UNDER FUME HOOD. DO NOT USE PRESSURE TO DISPENSE. MAY CORRODE METALIC SURFACES. EMPTY CONTAINERS MAY CONTAIN HAZARDOUS RESIDUE. HANDLE AND OPEN CONTAINER WITH CARE. DO NOT GET IN EYES, ON SKIN, ON CLOTHING. WASH AFTER USE. DO NOT ALLOW

SMOKING AND FOOD CONSUMPTION WHILE HANDLING. WEAR PROTECTIVE CLOTHING.

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

Respiratory Protection:NONE REQUIRED IF HANDLED IN CLOSED VENTILATION SYSTEMS. WHERE REQUIRED (LEAK, SPILL, OPEN HANDLING OF LIQUID) USE A NIOSH-APPROVED CHEMICAL CARTRIDGE RESPIRATOR FOR GAS BELOW 50 PPM. FOR GAS ABOVE 50 PPM OR MIST, USE NIOSH APPROVED SELF-CONTAINED BREATHING APPARATUS OR AIR-SUPPLIED RESPIRATOR, BOTH WITH FULL FACEPIECES.

Ventilation:USE ONLY IN CHEMICAL FUME HOOD TO KEEP AIRBORNE LEVELS BELOW EXPOSURE LIMITS. USE CORROSION PROOF VENTILATION. DO NOT USE IN UNVENTILATED SPACES.

Protective Gloves:IMPERVIOUS GLOVES (NEOPRANE)

Eye Protection:FACE SHIELD AND SPLASH GOGGLES. DO NOT WEAR CONTACT LENSES.

Other Protective Equipment:APRON, COVERALLS, OR OTHER RESISTANT PROTECTIVE CLOTHING AS REQUIRED FOR WORKPLACE CONDITIONS TO PREVENT CONTACT WITH HYDROCHLORIC ACID SOLUTIONS. WEAR SUFFICIENT PROTECTIVE CLOTHING TO PROTECT SKIN.

Work Hygienic Practices:DO NOT BREATHE VAPOR. AVOID CONTACT WITH PRODUCT. AVOID PROLONGED OR REPEATED EXPOSURE. USE ONLY IN FUME HOOD. HANDLE AND OPEN CONTAINER WITH CARE. CONTAINER SHOULD BE OPENED ONLY BY QUALIFIED PERSON.

Supplemental Safety and Health

HAVE AVAILABLE AND USE AS APPROPRIATE: SUITS, APRONS, AND BOOTS. MAKE EYE BATH AND EMERGENCY SHOWER AVAILABLE. ENSURE THAT EYEWASH STATION AND SAFETY SHOWER ARE CLOSE TO THE WORK-

STATION.

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

HCC:C1

NRC/State Lic Num:NP

Boiling Pt:B.P. Text:48.5 TO 110C(119.3-230

Melt/Freeze Pt:=-27.C, -16.6F

Decomp Temp:Decomp Text:NP

Vapor Pres:150 MM OF HG @20 C

Vapor Density:1.3 AIR=1

Spec Gravity:1.19 TO 1.16 (WATER=1)

pH:0.1 1M SOLUTION

Evaporation Rate & Reference:>1

Solubility in Water:MISCIBLE

Appearance and Odor:COLORLESS FUMING LIQUID WITH PUNGENT ODOR. ODOR
THRESHOLD: 5-10 PPM

Percent Volatiles by Volu

me:100% (V/V)

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

Stability Indicator/Materials to Avoid:YES

REACTS WITH MOST METALS TO PRODUCE HYDROGEN. AMINES, METAL OXIDES,
ACETIC ANHYDRIDE, BETA-PROPIOLACETONE, VINYLE ACETATE, MERCURIC
SULFATE, CALCIUM PHOSPHIDE, FORMALDEHYDE, ALKALIES, CARBONATES,
BASES, (CONTINUED IN "OTHER

Stability Condition to Avoid:NONE LISTED

Hazardous Decomposition Products:REACTS WITH MOST METALS TO PRODUCE
HYDROGEN. WILL CORRODE A

WIDE VARIETY OF METALS.

Conditions to Avoid Polymerization:WILL NOT OCCUR.

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

Toxicological Information:CHRONIC OVEREXPOSURE: EROSION OF TEETH,
ULCERATION OF NOSE, MOUTH, GUMS, BRONCHITIS. REPEATED OR PROLONGED
SKIN CONTACT CAN CAUSE SEVERE DERMITITIS OR BURNS. CARCINOGENIC
EFFECTS: NOT AVAAAILABLE. MUTA GENIC EFFECTS: NOT AVAILABLE.
TERATOGENIC EFFECTS: NOT AVAILABLE. TOXICITY OF PRODUCT TO
REPRODUCTIVE SYSTEM:

NOT AVAILABLE. TO BEST OF MANUFACTURERS
KNOWLEDGE, CHEMICAL, PHYSICAL AND TOXICITY OF THIS SUBSTANCE HAS
NOT BEEN FULLY INVESTIGATED. HYDROCHLORIC ACID: (RABBIT)ORAL
(LD50): ACUTE 900 MG/KG. VAPOR (LC50): ACUTE 3124 PPM (RAT)(1 HR).
757 PPM (MOUSE)(1 HR). VAPOR (CLO): ACUTE: 1300 PPM (HUM AN)(30M).

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

Waste Disposal Methods:FOLLOW ALL APPLICABLE REGULATIONS. HARMFUL TO
AQUATIC LIFE AT HIGH CONCENTRATIONS. CA
N BE DANGEROUS IF ALLOWED TO
ENTER DRINKING WATER INTAKES. DO NOT CONTAMINATE DOMESTIC OR
IRRIGATION WATER SUPPLIES, LAKES, STREAMS, PONDS, OR RIVERS.

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

Disclaimer (provided with this information by the compiling agencies):
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particular situation.