

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

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

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  
Emergency P  
hone 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

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

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  
EPA R

pt 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

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

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 CORROS  
IVE. 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 IN  
JURY,  
BLINDNESS. SKIN: SEVERE BURNS, PAIN, BROWNISH OR YELLOW STAINS:  
PENETRATES FULL THICKNESS OF SKIN, DERMATITIS, PHOTSENSITIZATION.  
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, D  
YSPHAGIA, ABDOMINAL PAIN, CARDIOVASCULAR COLLAPSE,  
CONVULSIONS, COMA, DEATH, ASPHYXIA.

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

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 CHEMI

CAL

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 APPARATUS 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:EVACUATE 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,

STRONG INCANDESCENT 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-STA

TION.

===== 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 Volume:

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 WID  
E 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 AVAAILABLE. MUTA GENIC EFFECTS: NOT AVAILABLE.  
TERATOGENIC EFFECTS: NOT AVAILABLE. TOXICITY OF PRODUCT TO  
REPRODUCTIVE SYSTEM: NO

T 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. CAN B  
E 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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