

REAGENT CHEMICAL & RESEARCH INC. -- HYDROCHORIC ACID, 20-22 DEG BAUME --
6810-00-236-5665

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

Product ID:HYDROCHORIC ACID, 20-22 DEG BAUME

MSDS Date:07/01/1988

FSC:6810

NIIN:00-236-5665

MSDS Number: BHBYP

=== Responsible Party ===

Company Name:REAGENT CHEMICAL & RESEARCH INC.

Address:124 RIVER ROAD

City:MIDDLESEX

State:NJ

ZIP:08846

Country:US

Info Phone Num:800-231-1807

Emergency Phone Num:800-231-1807/800-424-9300(CHEMTREC)

CAGE:0UAP0

=== Contractor Identification ===

Company Name:DOMINION CHEMICAL CO

Address:2050 PUDDLEDOCK RD

Box:1069

City:PETERSBURG

State:VA

ZIP:23803

Country:US

Phone:804-733-7628

CAGE:9A273

Company Name:KESSLER CHEMICAL INC

Address:STREET RD

Box:270

City:NEW HOPE

State:PA

ZIP:18938-9216

Country:US

Phone:215-847-8383

CAGE:2R858

Company Name:NATIONAL RESEARCH AND CHEMICAL CO

Address:15600 NEW CENTURY DRIVE

Box:City:GARDENA

State:CA

ZIP:

90248-2140

Country:US

Phone:213-515-1700

CAGE:20385

Company Name:REAGENT CHEMICAL AND RESEARCH INC WHITE FLYER DIV

Address:124 RIVER ROAD

Box:City:MIDDLESEX

State:NJ

ZIP:08846

Country:US

Phone:800-231-1807/800-424-9300(CHEMTREC)

CAGE:0UAP0

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

Ingred Name:HYDROGEN CHLORIDE (HYDROCHLORIC ACID) (SARA III)

CAS:7647-01-0

RTECS #:MW4025000

Fraction by Wt: 31.5-36%

Other REC Limits:NONE SPECIFIED BY M.

OSHA PEL:C 5 PPM

ACGIH TLV:C 5 PP

M; 9192

EPA Rpt Qty:5000 LBS

DOT Rpt Qty:5000 LBS

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

LD50 LC50 Mixture:LD50 (ORAL RABBIT) IS 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-EYES:SEVERE IRRITATION,PAINFUL

BURNS. SKIN:SEVERE BURNS. INHALATION:ULCERATION OF

NOSE,THROAT,LARYNX. INGESTION: SEVERE BURNS OF MUCOUS MEMBRANE OF MOUTH,ESOPHAGUS,STOM

ACH. CHRONIC-EYES: PERMANENT VISUAL

IMPAIRMENT,TOTAL LOSS OF SIGHT. SKIN:DERMATITIS. INHALATION:EDEMA OF LUNGS.

Explanation of Carcinogenicity:NONE OF THE COMPOUNDS IN THIS PRODUCT IS LISTED BY IARC, NTP, OR OSHA AS A CARCINOGEN.

Effects of Overexposure:EYES:PAINFUL BURNS. SKIN:SEVERE BURNS.

INHALATION:COUGHING,BURNING OF THROAT,CHOKING SENSATION.

INGESTION:LIPS AND MOUTH USUALLY TURN WHITE,AND LATER BROWN.PAIN IN THE THROAT AND STOMACH, DIFFICULTY IN SWALLOWING,INTENSE

THIRST, NAUSEA AND VOMITING, FOLLOWED BY DIARRHEA, IN SEVERE CASES BY COLLAPSE AND UNCONSCIOUSNESS.

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

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

First Aid: INHALATION: REMOVE TO FRESH AIR. RESUSCITATE IF NOT BREATHING. GET MEDICAL ATTENTION. EYES: IMMEDIATELY FLUSH WITH PLENTY OF WATER FOR 15 MINUTES HOLDING EYELIDS OPEN. GET MEDICAL ATTENTION. SKIN: REMOVE CONTAMINATED CLOTHING. WASH WITH SOAP AND WATER. GET MEDICAL ATTENTION. INGESTION: DRINK 2-3 GLASSES OF WATER. DO NOT INDUCE VOMITING. GIVE NOTHING BY MOUTH IF UNCONSCIOUS. GET IMMEDIATE MEDICAL ATTENTION

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

Flash Point: NON-FLAMMABLE

Extinguishing Media: USE APPROPRIATE MEDIA FOR THE SURROUNDING FIRE.

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: THOUGH NON-FLAMMABLE, HYDROCHLORIC ACID REACTS WITH ALL METALS, EXCEPT GOLD AND PLATINUM, WITH RAPID EVOLUTION OF HYDROGEN WHICH IS FLAMMABLE AND EXPLOSIVE.

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

Spill Release Procedures: WEAR SCBA AND PROTECTIVE CLOTHING. NEUTRALIZE WITH LIME, SODA ASH OR LIMESTONE SOLUTIONS. NEUTRALIZATION WILL

EVOLVE CARBON DIOXIDE. IN ENCLOSED SPACES, PROVIDE AMPLE VENTILATION. ABSORB IN INERT MATERIAL, AND PLACE IN APPROPRIATE DISPOSAL CONTAINER.

Neutralizing Agent: LIME (CALCIUM HYDROXIDE), SODA ASH (SODIUM CARBONATE), LIMESTONE (CALCIUM CARBONATE)

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

Handling and Storage Precautions: STORE IN A COOL, DRY, WELL VENTILATED AREA. KEEP CONTAINERS TIGHTLY CLOSED WHEN NOT IN USE. PROTECT CONTAINERS FROM

M PHYSICAL DAMAGE.

Other Precautions:DO NOT TAKE INTERNALLY. DO NOT BREATHE MIST. AVOID PROLONGED OR REPEATED BREATHING OF VAPOR. AVOID CONTACT WITH EYES. USE WITH ADEQUATE VENTILATION. WASH THOROUGHLY AFTER HANDLING. FOR INDUSTRIAL USE ONLY.

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

Respiratory Protection:POWERED AIR-PURIFYING RESPIRATOR WITH AN ACID GAS CARTRIDGE OR SELF-CONTAINED BREATHING APPARATUS AS REQUIRED FOR THE EXPOSURE OF CONCERN.

Ventilation:GENERAL (MECHANICAL) VENTILATION.LOCAL EXHAUST IN ENCLOSED AREAS.

Protective Gloves:RUBBER,PVC.

Eye Protection:CHEMICAL GOGGLES AND/OR FULL FACE SHIELD

Other Protective Equipment:IMPERVIOUS CLOTHING,FOOTWEAR AND HEAD GEAR. EYE WASH STATION AND SAFETY SHOWER.

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

Supplemental Safety and Health
AVOID PROLONGED OR REPEATED EXPOSURE. DO NOT GET ON SKIN OR IN EYES. DO NOT BREATHE VAPORS OR MISTS.

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

HCC:C1

Boiling Pt:B.P. Text:230F,110C

Vapor Pres:50-60

Spec Gravity:1.160-1.1789

Solubility in Water:COMPLETE

Appearance and Odor:LIQUID WITH SHARP, PUNGENT, IRRITATING ODOR.

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

Stability Indicator/Materials to Avoid:YES
METALS OF ALL TYPES.

Stability Condition to Avoid:HIGH HEAT, OPEN FLAMES AND OTHER

SOURCES

OF IGNITION WHEN THE ACID IS IN CONTACT WITH METALS.

Hazardous Decomposition Products:POISONOUS CHLORINE GAS.

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

Waste Disposal Methods:NOTIFY YOUR LOCAL ENVIRONMENTAL OFFICER.DISPOSAL SHOULD BE MADE IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL LAWS AND REGULATIONS.

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