

HILL BROS CHEMICAL CO -- MURIATIC ACID -- 6810-00-236-5665

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

Product ID:MURIATIC ACID

MSDS Date:12/10/1986

FSC:6810

NIIN:00-236-5665

MSDS Number: BQYBY

=== Responsible Party ===

Company Name:HILL BROS CHEMICAL CO

Address:1675 N MAIN ST

City:ORANGE

State:CA

ZIP:92667

Country:US

Info Phone Num:714-998-8800

Emergency Phone Num:714-998-8800

CAGE:0EXY4

=== Contractor I

dentification ===

Company Name:HILL BROS CHEMICAL CO

Address:1675 N MAIN ST

Box:City:ORANGE

State:CA

ZIP:92667

Country:US

Phone:714-998-8800

CAGE:0EXY4

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

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

CAS:7647-01-0

RTECS #:MW4025000

Fraction by Wt: 31.4%

Other REC Limits:NONE RECOMMENDED

OSHA PEL:C 5 PPM

ACGIH TLV:C 5 PPM; 9293

EPA Rpt Qty:5000 LBS

DOT Rpt Qty:5000 LBS

===== Hazards Identificat

ion =====

LD50 LC50 Mixture:LD50, RAT ORAL = 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:EYES: MAY CAUSE SEVERE BURNS. SKIN:
MAY PRODUCE IRRITATION AND BURNS , THE SEVERITY BEING DETERMINED BY
CONCENTRATION AND DURATION OF EXPOSURE. INHALATION: VAPORS HAVE
IRRITATING EFFECT ON THE RESPIRATORY TRACT CAUSING COUGHING,
BURNING OF THROAT, CHOKING SENSATION. I

NGESTION: SEVERE BURNS OF THE
MOUTH, ESOPHAGUS.

Explanation of Carcinogenicity:NONE SPECIFIED BY MANUFACTURER.

Effects of Overexposure:RESPIRATORY DISTRESS, IRRITATION OF MUCOSA
LINING, DERMITITIS, ULCERATION, INFLAMMATION OF NOSE, THROAT AND
LARYNX.

Medical Cond Aggravated by Exposure:PERSONS WITH A HISTORY OF AILMENTS
OR WITH A PRE-EXISTING DISEASE INVOLVING THE PULMONARY FUNCTIONS
MAY BE AT INCREASED RISK FROM EXPOSURE.

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

First Aid:EYE: FLUSH WITH WATER 15 MIN. GET MEDICAL CARE. SKIN: REMOVE
CONTAMINATED CLOTHING. IMMEDIATELY USE SAFETY SHOWER. GET PROMPT
MEDICAL ATTENTION. LAUNDRY CLOTHING BEFORE REUSE. INHALATION:
REMOVE TO FRESH AIR. RESTORE BREATHING. GET IMMEDIATE MEDICAL
CARE. INGESTION: GIVE LARGE QUANTITIES OF WATER FOLLOW WITH LARGE
QUANTITIES OF LIME WATER OR MILK OF MAGNESIA. GET IMMEDIATE MEDICAL
ATTENTION.

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

Flash Point:NONE

Extinguishing Media:USE MEDIA APPROPRIATE FOR SURROUNDING FIRE.

Fire Fighting Procedures:FIRE FIGHTERS SHOULD USE NIOSH APPROVED SCBA &
FULL PROTECTIVE EQUIPMENT.

Unusual Fire/Explosion Hazard:REACTS WITH ACTIVE METALS (POTASSIUM,
SODIUM, CALCIUM, POWDERED ALUMINUM, ZINC, MAGNESIUM) TO PRODUCE
FLAMMABLE HYDROGEN GAS.

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

Spill Release Procedures:USE APPROPRIATE PROTECTIVE EQUIPMENT.

CONTAIN

SPILL AND AND PUMP INTO MARKED CONTAINERS. FOR SMALL SPILLS, NEUTRALIZE WITH SODA ASH OR DILUTE CAUSTIC SODA SOLUTION. IF POSSIBLE, CLEAN UP SPILL AREA ON A DRY BASIS AND THEN FLUSH WITH PLENTYOF WATER.

Neutralizing Agent:SODA ASH OR DILUTE CAUSTIC SODA SOLUTION

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

Handling and Storage Precautions:STORE IN A COOL, DRY, WELL-VENTILATED AREA AWAY FROM HEAT AND OXIDIZING AGENTS. USE EQUIPMENT DESIGNED

FOR ACID SERVICE FOR HANDLING AND STORAGE.

Other Precautions:NONE SPECIFIED BY MANUFACTURER.

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

Respiratory Protection:USE APPROVED ORGANIC VAPOR ACID-GAS RESPIRATOR FOR AREAS WHERE AIRBORNE EXPOSURE IS EXCESSIVE.

Ventilation:USE LOCAL EXHAUST VENTILATION AT POINT OF VAPOR EMISSION. SYSTEM SHOULD BE DISCHARGED INTO ABSORPTION MEDIA.

Protective Gloves:RUBBER OR NEOPRENE GLOVES

Eye Protection:SAFETY GOGGLES WITH OPTIONAL FACE SHIELD

Other Protective Equipment:EYE WASH STATION AND SAFETY SHOWER. ACID SUIT OR APRON WITH RUBBER BOOTS AS DICTATED BY TASK AT HAND.

Work Hygienic Practices:OBSERVE GOOD CHEMICAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES. AVOID ANY CONTACT IF POSSIBLE.

Supplemental Safety and Health

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

HCC:C1

Boiling Pt:B.P. Text:176F,80C

Melt/Freeze Pt:M.P/F.P Text:-63F,-53C

Vapor Pres:210

Spec Gravity:1.16

pH:1.0

Solubility

in Water:COMPLETE

Appearance and Odor:CLEAR; COLORLESS TO SLIGHTLY YELLOW LIQUID; SHARP, PUNGENT, IRRITATING ODOR.

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

Stability Indicator/Materials to Avoid:YES CONTACT WITH METALS AND STRONG OXIDIZERS.

Stability Condition to Avoid:HEAT OR FIRE

Hazardous Decomposition Products:FLAMMABLE HYDROGEN GAS, CHLORINE WHEN MIXED WITH STRONG OXIDIZERS.

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

Waste Disp

osal Methods:DISPOSE OF SPILLED OR WASTED PRODUCT,
CONTAMINATED SOIL, OR OTHER CONTAMINATED MATERIALS IN LICENSED
LANDFILL OR TREATMENT FACILITY IN ACCORDANCE WITH ALL LOCAL, STATE,
AND FEDERAL REGULATIONS.

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
d
isclaims 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.