

FISHER SCIENTIFIC COMPANY -- HYDROCHLORIC ACID;MURIATIC ACID. -- 6810-00-138-2484  
===== Product Identification =====

Product ID:HYDROCHLORIC ACID;MURIATIC ACID.

MSDS Date:07/09/1985

FSC:6810

NIIN:00-138-2484

MSDS Number: BDBJD

=== Responsible Party ===

Company Name:FISHER SCIENTIFIC COMPANY

Address:1-REAGENT LANE

City:FAIR LAWN

State:NJ

ZIP:07410

Country:US

Info Phone Num:201-796-7100

Emergency P

hone Num:201-796-7100

CAGE:1B464

=== Contractor Identification ===

Company Name:FISHER SCIENTIFIC CO. CHEMICAL MFG DIV

Address:1 REAGENT LANE

Box:City:FAIRLAWN

State:NJ

ZIP:07410-2802

Country:US

Phone:201-796-7100

CAGE:1B464

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

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

CAS:7647-01-0

RTECS #:MW4025000

Fraction by Wt: 36-37%

OSHA PEL:C 5 PPM

ACGIH TLV:C 5 PPM; 9192

EPA Rpt Qty:5000 LBS

DOT Rpt Qty:5000 LBS

Ingredient Name: WATER  
CAS: 7732-18-5  
RTECS #: ZC0110000  
Fraction by Wt: 63-64%

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Hazards Identification  
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LD50 LC50 Mixture: LC50=900MG/KG ORAL RABBIT; LD50 40MG/KG  
Routes of Entry: Inhalation: YES Skin: UNKNOWN Ingestion: YES  
Health Hazards Acute and Chronic: ACUTE: COUGHING, BURNING OF THROAT NOSE,  
CHOKING, DIZZINESS, DENTAL EROSION, BLEEDING, RESPIRATORY  
PROBLEM, CYANOSIS AND DEATH. ACUTE: EROSION OF TEETH FOLLOWED BY JAW  
NECROSIS; CHRONIC COUGH, ETC.

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First Aid Measures  
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First Aid: INHAL: RMV TO FRESH AIR. GIVE ARTF RESP IF NOT BRTHG. CALL  
DR. EYES: FLUSH W/PLENTHY OF H2O FOR @ LEAST 15 MIN. CALL DR.  
SKIN: FLUSH W/PLENTHY OF H2O FOR @ LEAST 15 MIN. CALL DR. RMV CONTAM  
CLTHG & WASH BEFORE REUSE. INGEST: DONT GIVE EMETICS. GIVE (SEE SUPP  
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Fire Fighting Measures  
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Flash Point: NOT FLAMM  
Extinguishing Media: DRY CHEMICAL, CO2, WATER SPRAY OR FOAM  
Fire Fighting Procedures: USE NIOSH/MSHA APPROVED SCBA IN AN ENCLOSED  
AREA.  
Unusual Fire/Explosion Hazard: MAY GIVE CORROSIVE VAPORS; USE REASONABLE  
CARE.

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Accidental Release Measures  
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Spill Release Procedures: COVER CONTAM SURF W/SODA ASH & SLAKED LIME  
MIXTURE (50-50). MIX & ADD H2O IF NECESS TO FORM A SLURRY. SCOOP UP  
SLURRY & WASH DOWN THE DRAIN W/EXCESS H2O. WASH SITE W/SODA ASH  
SOLUTION.  
Neutralizing Agent: LIME, SLAKED LIME, LIME STONE CRUSHED OR NAH

CO3

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

Handling and Storage Precautions:STORE IN COOL PLACE OUT OF DIRECT SUNLIGHT. STORE IN WELL VENTILATED AREA. KEEP TIGHTLY CAPPED. CORROSIVE.

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

Respiratory Protection:NIOSH/MSHA APPROVED INDUSTRIAL GAS CANISTER FOR ABSORBING HYDROGEN CHLORIDE GAS.

Ventilation:LOCAL EXHAUST & MECHANICAL(GENL)FUME HOOD VENT

Protective Gloves:RUBBER GLOVES

Eye Protection:

SFTY GOGGLES/FACE SHIELD

Other Protective Equipment:RUBBER APRON, EYE WASH

Supplemental Safety and Health

VAP PRESS:4.0 @ 17.8C. MELTING PT:-27C. EMER & FIRST AID PROC: TAP H2O, MILK OR MILK OF MAGNESIA.GIVE EGG WHITES BEATEN W/H2O.CALL DR.

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

HCC:C1

Boiling Pt:B.P. Text:384F,196C

Melt/Freeze Pt:M.P/F.P Text:-17F,-27C

Vapor Pres:4

Vapor Density:1.3

Spec Gravity:1.2

pH:1.1

Solubility in Water:SOLUBLE

Appearance and Odor

:COLORLESS OR SLIGHTLY YELLOW FUMING LIQUID WITH A PUNGENT ODOR.

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

Stability Indicator/Materials to Avoid:YES

POISONS,METALS (ALUMINUM),STRONG BASES,STEEL MAGNESIUM.

Stability Condition to Avoid:REACTION W/METALS CAN LIBERATE HYDROGEN GAS.

Hazardous Decomposition Products:HYDROGEN CHLORIDE FUMES.

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

Waste Disposal Methods:DISPOSE OF BY MEANS AS TO COMPLY

W/ALL

LOCAL, STATE & FEDERAL REGULATIONS OR CONTACT AN APPROVED & LICENSED DISPOSAL AGENCY.

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