

FISHER SCIENTIFIC CO. CHEMICAL MFG DIV -- A140 500, HYDROBROMIC ACID TECH. --  
6810-00-264-6550

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

Product ID:A140 500, HYDROBROMIC ACID TECH.

MSDS Date:06/08/1998

FSC:6810

NIIN:00-264-6550

Status Code:A

MSDS Number: CKGQB

=== Responsible Party ===

Company Name:FISHER SCIENTIFIC CO. CHEMICAL MFG DIV

Address:1 REAGENT LANE

City:FAIR LAWN

State:NJ

ZIP:07410-2802

Cou

ntry:US

Info Phone Num:201-796-7100

Emergency Phone Num:201-796-7100

Chemtec Ind/Phone:(800)424-9300

CAGE:1B464

=== Contractor Identification ===

Company Name:FISHER SCIENTIFIC CO

Address:3970 JOHNS CREEK CT, SUITE 500

Box:City:SUWANEE

State:GA

ZIP:30024

Country:US

Phone:770-871-4500

Contract Num:SP0450-00-M-D860

CAGE:8E930

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 BROMIDE  
CAS:10035-10-6  
RTECS #:MW3850000  
Minumum % Wt:47.  
Maxumum % Wt:49.  
Other REC Limits:NONE SPECIFIED  
OSHA PEL:C 3 PPM  
ACGIH TLV:C 3 PPM; 9192

Ingred Name:WATER  
CAS:7732-18-5  
RTECS #:ZC0110000  
Minumum % Wt:51.  
Maxumum % Wt:53.  
Other REC Limits:NONE SPECIFIED

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

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES

Reports of Carcinogenicity:NT

P:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:TARGET ORGANS: NONE. ACUTE/CHROMIC-  
EYES: CAUSES SEVERE EYE IRRITATION AND BURNS. MAY RESULT IN CORNEAL  
INJURY. SKIN: CAUSES SEVERE SKIN IRRITATION. MAY BE ABSORBED.  
CONTACT WITH LIQUID IS CORROSIVE & CAUSES SEVERE BURNS &  
ULCERATION. INGESTION: CAUSES GASTROINTESTINAL TRACT BURNS. MAY  
CAUSE RESPIRATORY AND/OR CIRCULATORY SYSTEM FAILURE. MAY CAUSE  
HEMORRHAGING OF THE DIGESTIVE TRACT. MAY CAUSE CORROSION &  
P

PERMANENT TISSUE DESTRUCTION OF THE ESOPHAGUS & DIGESTIVE TRACT.  
SUBSTANCE POSES SERIOUS ASPIRATION HAZARD. INHALATION: IRRITATION  
MAY LEAD TO CHEMICAL PNEUMONITIS & PULMONARY EDEMA. MAY CAUSE  
EFFECTS AS DESCRIBED IN INGESTION.

Explanation of Carcinogenicity:THIS COMPOUND CONTAINS NO INGREDIENTS AT  
CONCENTRATIONS OF 0.1% OR GREATER THAT ARE CARCINOGENS OR SUSPECT  
CARCINOGENS.

Medical Cond Aggravated by Exposure:NONE SPECIFIED BY MANUFACTURER.

===== First A

id Measures =====

First Aid:EYES: GET MEDICAL AID IMMEDIATELY. DO NOT ALLOW VICTIM TO RUB OR KEEP EYES CLOSED. EXTENSIVE IRRIGATION IS REQUIRED (AT LEAST 30 MIN). SKIN: GET MEDICAL AID IMMEDIATELY. IMMEDIATELY FLUSH WITH PLENTY OF SOAP & WATER FOR AT LEAST 15 MIN WHILE REMOVING CONTAMINATED CLOTHING & SHOES. WASH CLOTHING BEFORE REUSE. DISCARD CONTAMINATED CLOTHING. INGESTION: DO NOT INDUCE VOMITING. IF VICTIM IS CONSCIOUS & ALERT, GIVE 2-4 CUPFULS OF MILK OR WATER. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. GET MEDICAL AID IMMEDIATELY. INHALATION: REMOVE EXPOSURE IMMEDIATELY. ASSIST WITH BREATHING SUPPORT MEASURES AS NEEDED.

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

Extinguishing Media:USE FOAM, DRY CHEMICAL, OR CARBON DIOXIDE. USE AGENT MOST APPROPRIATE TO EXTINGUISH FIRE.  
Fire Fighting Procedures:AS IN ANY FIRE, WEAR A SELF-CONTAINED BREATHING APPARATUS IN PRESSURE-DEMAND MODE, MSHA/NIOSH (APPROVED OR EQUIVALENT), AND FULL PROTECTIVE GEAR. DURING A FIRE, IRRITATING & HIGHLY TOXIC GASES MAY BE GENERATED BY THERMAL DECOMPOSITION OR COMBUSTION.  
Unusual Fire/Explosion Hazard:REACTS WITH MOST METALS TO FORM HIGHLY FLAMMABLE HYDROGEN GAS WHICH CAN FORM EXPLOSIVE MIXTURES WITH AIR.

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

Spill Release Procedures:ABSORB SPILL WITH INERT MATERIAL (E.G. DRY SAND OR EARTH), THEN PLACE INTO A CHEMICAL WASTE CONTAINER. LARGE SPILLS MAY BE NEUTRALIZED WITH DILUTE ALKALINE SOLUTIONS OF SODA ASH, OR LIME.  
Neutralizing Agent:DILUTE ALKALINE SOLUTIONS OF SODA ASH OR LIME.

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

Handling and Storage Precautions:WASH THOROUGHLY AFTER HANDLING. REMOVE CONTAMINATED CLOTHING & WASH BEFORE REUSE. USE WITH ADEQUATE VENTILATION. GROUND & BOND CONTAINERS WHEN TRANSFERRING MATERIAL. USE SPARK-PROOF TOOLS & EXPLOSION

PROOF EQUIPMENT. KEEP AWAY FROM SOURCES OF IGNITION. STORE IN A TIGHTLY CLOSED CONTAINER.  
Other Precautions:STORE IN A COOL, DRY, WELL-VENTILATED AREA AWAY FROM INCOMPATIBLE SUBSTANCES. KEEP AWAY FROM METALS. CORROSIVE AREA.

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

Respiratory Protection:FOLLOW THE OSHA RESPIRATOR REGULATIONS FOUND IN 29 CFR 1910.134 OR EUROPEAN STANDARD EN 149. ALWAYS USE A NIOSH OR EUROPEAN EN 149 APPROVED RESPIRATOR WHEN NECESSARY

Ventilation:PROVIDE LOCAL EXHAUST OR PROCESS ENCLOSURE VENTILATION TO MEET THE PUBLISHED EXPOSURE LIMITS.

Protective Gloves:WEAR APPROPRIATE PROTECTIVE GLOVES.

Eye Protection:WEAR APPROPRIATE PROTECTIVE EYEGLASSES OR CHEMICAL SAFETY GLASSES.

Other Protective Equipment:WEAR APPROPRIATE CLOTHING TO PREVENT SKIN EXPOSURE.

Supplemental Safety and Health  
NONE

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

HCC:C1

Boiling Pt:>126.C, 258.8F

B.P. Text:126-128 C

Melt/F

reeze Pt:=-11.C, 12.2F

Vapor Density:2.8

Spec Gravity:1.48

pH:ACID

Evaporation Rate & Reference:>1 (ETHER=1)

Solubility in Water:SOLUBLE

Appearance and Odor:LIQUID, CLEAR COLORLESS TO FAINT YELLOW, STRONG ODOR.

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

Stability Indicator/Materials to Avoid:YES

STRONG OXIDIZING AGENTS, STRONG BASES, MOIST AIR, METALS, AMMONIA, OZONE, AND FLUORINE.

Stability Condition to Avoid:DARDENS ON EXPOSURE TO LIGHT AND AIR.  
INCO

MPATIBLE WITH LIGHT, MOISTURE, EXCESS HEAT.  
Hazardous Decomposition Products:HYDROGEN BROMIDE.

===== Ecological Information =====

Ecological:NO INFORMATION AVAILABLE OR REPORTED.

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

Waste Disposal Methods:DISPOSE OF IN A MANNER CONSISTENT WITH FEDERAL,  
STATE, AND LOCAL REGULATIONS. NOT LISTED AS A MATERIAL BANNED FROM  
LAND DISPOSAL ACCORDING TO RCRA.

===== MSDS Transport  
Information =====

Transport Information:HYDROBROMIC ACID SOLUTION, UN1788, PG II.

===== Regulatory Information =====

SARA Title III Information:NO CHEMICALS ARE REPORTABLE UNDER SECTION  
313. SARA CODES: CAS# 10035-10-6: ACUTE, CHRONIC.

Federal Regulatory Information:CAS# 7732-18-5 AND CAS# 10035-10-6 ARE  
LISTED ON THE TSCA INVENTORY.

State Regulatory Information:HYDROGEN BROMIDE CAN BE FOUND ON THE  
FOLLOWING STATE RIGHT TO KNOW LI

STS: CALIFORNIA, NEW JERSEY,  
FLORIDA, PENNSYLVANIA, MINNESOTA MASSACHUSETTS.

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