

AMERICAN MONITOR CORPORATION
5425 West 84th Street
Indianapolis, IN 46268
800-428-1437

MATERIAL SAFETY DATA SHEET

PRODUCT IDENTIFICATION

Product Name: Bilirubin Hydrochloric Acid

Catalog Number: 9005-01

HAZARDOUS INGREDIENTS

<u>Ingredient</u>	<u>CAS No.</u>
Hydrochloric Acid (35-40% H ₂ O)	7647-01-0

*Ingredients not precisely identified are considered proprietary

The hazardous ingredients listed above are contained in this reagent in a diluted form. The attached Material Safety Data Sheet (MSDS) has, by necessity, been generated for the undiluted chemical ingredient. The user should bear in mind that this reagent would likely pose a lesser health threat because these ingredients are diluted. However, as always, good laboratory practice should be observed when handling chemicals in any form.

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SECTION I - INGREDIENT

Chemical Identification:

Chemical Name: Hydrochloric acid (35-40% H₂O)

CAS No.: 7647-01-0

Common Synonyms:

PRECAUTIONARY LABELING

Hazard Rating: (Code: 0 = none; 1 = slight; 2 = moderate; 3 = severe; 4 = extreme)

Health: 3 Flammability: 0 Reactivity: 2 Contact: 3

Laboratory Protective Equipment: Chemical safety glasses, protective lab coat

Precautionary Label Statements: FOR IN VITRO DIAGNOSTIC USE ONLY!

SECTION II - PHYSICAL DATA

Boiling Point: 110°C

Melting Point: N/A

Specific Gravity: 1.19

Evaporation Rate: N/A

Solubility in Water: Complete

Percent Volatiles (Vol.%): 100

Vapor Pressure: 212

Vapor Density: 1.3

Appearance & Odor: Clear liquid, pungent odor

pH: Very strongly acidic

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SECTION III - FIRE AND EXPLOSION HAZARD DATA

Flash Point: N/A Flammable Limits: N/A

Extinguishing Media: Use extinguishing media appropriate for surrounding fire.

Special Fire Fighting Procedures: Firefighters should wear proper protective equipment and self-contained breathing apparatus with full faceplate.

Toxic Gases Produced: Hydrogen chloride

SECTION IV - HEALTH HAZARD DATA

Toxicity: LD₅₀ (oral-rabbit): 900 mg/kg; LC₅₀ (inhl-rat-1H): 3124 ppm

Exposure Limit: TLV: 5 ppm (ceiling); PEL: 5 ppm (ceiling)

Effects of Overexposure: Liquid may cause burns to skin and eyes. Inhalation of vapors may cause coughing and irritation of respiratory system.

SECTION V - EMERGENCY AND FIRST AID PROCEDURES

NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON!

Ingestion: If swallowed, do NOT induce vomiting. Give water, milk, or milk of magnesia.

Inhalation: If inhaled, remove to fresh air. If breathing is difficult, give oxygen and call a physician.

Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

Skin Contact: Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing. Wash clothing before reuse.

SECTION VI - REACTIVITY DATA

Stability: Stable Decomposition Products: Hydrogen chloride

Incompatibles: Most common metals, water Conditions to Avoid: Heat, moisture
strong bases, amines, carbonates

SECTION VII - SPILL AND DISPOSAL PROCEDURES

Wear self-contained breathing apparatus

Steps to be taken in the event of a spill or leak: and full protective clothing. Flush with water and neutralize with soda ash or lime. Sewer neutralized material with excess water.

Disposal procedure: Dispose in accordance with all applicable federal, state, and local environmental regulations. Cautiously neutralize to acceptable pH, e.g., between 6 and 9, in a neutralization tank, then carefully pour down drain with large amounts of water. Rinse containers well before discarding.

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SECTION VIII- SPECIAL PROTECTION INFORMATION

Ventilation: Use adequate general or local exhaust ventilation to keep vapor or dust levels as low as possible.

Respiratory Protection: None required in normal use where adequate ventilation conditions exist.

Eye/Skin Protection: Chemical safety glasses, protective laboratory coat, and proper gloves are recommended.

SECTION IX - STORAGE AND HANDLING PRECAUTIONS

Other precautions: This compound is contained in a kit reagent. Observe storage and all other directions specified in the package insert.

Keep container tightly closed. Store in corrosion-proof area between 20° and 25° C.

SECTION X - TRANSPORTATION DATA AND ADDITIONAL INFORMATION

Domestic (D.O.T.):

Proper Shipping Name: Chemicals, n.o.s.

International (I.M.O.):

Proper Shipping Name: Chemicals, n.o.s.

N/A = Not Applicable or Not Available

The information published in this Material Safety Data Sheet (MSDS) has been compiled in good faith from our experience and data presented in various technical publications and is presented without guaranty. American Monitor Corporation makes no representation as to the accuracy of the information contained in this MSDS. While the information is believed to be correct, the user should perform his own investigation and independent verification. It is also the user's responsibility to determine the suitability of this information for the adoption of necessary safety precautions. We reserve the right to revise Material Safety Data Sheets periodically as new information becomes available.

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