

Safety Data Sheet

Hydrochloric Acid, 10%

Section 1 - Chemical Product and Company Identification

SDS Name: Hydrochloric Acid, 10%
Catalog Numbers: SO-355, J-606-2

Company Identification: ROWLEY BIOCHEMICAL
10 ELECTRONICS AVENUE
DANVERS, MA 01923

For information, call: 978-739-4883
Emergency Number: 800-424-9300
For CHEMTREC assistance, call: 800-424-9300

Section 2 - Hazards Identification

GHS Classifications Category

H290-Corrosive to Metals: 1
H302-Acute Oral Toxicity: 4
H314-Skin Corrosion/Irritation: 1B
H318-Serious Eye damage/Eye Irritation: 1
H332-Acute Inhalation Toxicity: 4

Pictograms or Hazard Symbols and Hazard Statement



Signal Word: Danger!

Hazard Statement(s):

H290-May be corrosive to metals
H302-Harmful if swallowed
H314-Causes severe skin burns and eye damage
H318-Causes serious eye damage
H332-Harmful if inhaled

Precautionary Statements:

P234-Keep only in original container.
P260-Do not breathe dusts or mists.
P261-Avoid breathing dust/fume/gas/mist/vapours/spray.

P264-Wash thoroughly after handling.
 P270-Do not eat, drink or smoke when using this product.
 P271-Use only outdoors or in a well-ventilated area.
 P280-Wear protective gloves/protective clothing/eye protection/face protection.
 P301+P312-If swallowed: Call a poison center or doctor/physician if you feel unwell.
 P301+P330+P331-If swallowed: Rinse mouth. Do NOT induce vomiting.
 P303+P361+P353-If on skin (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
 P304+P340-If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
 P305+P351+P338-If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P310-Immediately call a poison center or doctor/physician.
 P312-Call a poison center or doctor/physician if you feel unwell.
 P330-Rinse mouth.
 P363-Wash contaminated clothing before reuse.
 P390-Absorb spillage to prevent material damage.
 P405-Store locked up.
 P406-Store in corrosive resistant container with a resistant inner liner.
 P501-Dispose of contents/container in accordance with all federal, state, and local regulations.

Section 3 - Composition, Information on Ingredients

CAS#	Chemical Name	Percent
7647-01-0	Hydrochloric Acid	10
7732-18-5	Water	90

Section 4 - First Aid Measures

Eye Exposure: Corrosive to naked eye; in case of contact flush eyes well for 15 minutes, lifting the lower and upper eyelids occasionally. May cause permanent eye damage or blindness. Seek medical attention.

Dermal Exposure: Obtain medical attention: Corrosive to exposed skin. Flush skin well with water for 15 minutes, wash with soap and water. Remove affected clothing, get medical attention. May cause deep, penetrating burns.

Oral Exposure: Will cause severe burns to the mouth and severe and permanent damage to the digestive tract. Causes gastrointestinal burns and perforation of the digestive tract. Get Medical Attention immediately. Do not induce vomiting; give large quantities of water.

Inhalation Exposure: If inhaled, remove to fresh air. If not breathing give artificial respiration. Seek medical attention. Inhalation of vapors may cause coughing choking, inflammation of the nose, throat, and upper respiratory tract. In severe cases, may pulmonary edema, circulatory failure, and death.

Section 5 - Fire Fighting Measures

NFPA HEALTH **3** FLAMMABILITY **0** REACTIVITY **0**

Extinguishing media: Water spray. Neutralize with soda ash or slaked lime

Special fire fighting procedures: Wear chemically retardant gear and NIOSH approved self-contained breathing apparatus. Thermal decomposition produces irritating and toxic fumes. Extreme heat or contact with metals can release flammable hydrogen gas.

Toxic gases released: Hydrogen chloride, hydrogen gas.

Section 6 - Accidental Release Measures

Methods for Cleaning up: Ventilate area of leak or spill. Stop leak if possible to do so without risk. Clean-up personnel should wear protective clothing and NIOSH approved respirator. Dike and cover the contaminated areas with absorbent, non-combustible material such as earth, sand, or vermiculite. Neutralize with alkaline material such as soda ash or lime. Do not use combustibles. Do not flush to sewer.

Section 7 - Handling and Storage

Wash thoroughly after handling. Remove contaminated clothing and wash before re-use. Do not breathe mist or vapor. Do not expose eyes, skin, or clothing. Keep container closed tightly. Avoid contact with combustibles. Do not use with metal tools or items. Use with adequate ventilation or respiratory protection. Do not store near combustibles or in direct sunlight. Store in a cool, dry, well-ventilated area away from incompatible substances. Separate from metals, alkali, and organics. Residue in empty containers may still be hazardous.

Section 8 - Exposure Controls, Personal Protection

Respiratory protection: Wear NIOSH/MESA approved full or half face piece (with goggles) respiratory protective equipment to avoid exposure to iodine vapors above 0.1 ppm. A respiratory protection program complying with requirements of 29 CFR 1910.134 is recommended.

Ventilation: Where adequate ventilation is not available, use NIOSH approved vapor respirator with dust, fume and mist filters. Local ventilation through fume hoods or laminar flow stations is also preferred. Keep fumes away from strong bases.

Personal Protective Equipment:

Other: Wear appropriate government approved respirator, chemical-resistant gloves, safety goggles/ face shield.

Section 9 - Physical and Chemical Properties

Physical State: Liquid

Appearance: Colorless

Odor: Acrid, pungent

pH: ≤ 0.1

CAS#7647-01-0 Hydrochloric Acid:

Melting point: -74 °C

Flash point: Non-flammable

Ignition point: Will not ignite

Danger of explosion: Product is not explosive

Vapor Pressure: 190 mm Hg at 25 °C
Vapor Density (Air=1): No information
Evaporation Rate (water=1) no information
Relative Density: 1.2g/cm³ at 25 degrees C
Boiling Point: 109°C
Decomposition Temperature: > 150 °C
Solubility: Soluble
Specific Gravity/Density: 1.16
Volatiles, %: 80-85
Solubility in/Miscibility: Completely miscible in water

Section 10 - Stability and Reactivity

Chemical Stability: Stable at room temperature in closed containers under normal storage and handling conditions.

Conditions to avoid: Excess heat, sunlight, confined spaces.

Hazardous Decomposition Products: Hydrogen chloride fumes, hydrogen gas

Hazardous Polymerization: Will not occur.

Incompatibilities with other materials: Most common metals, strong bases, metal oxides, amines, hydroxides, cyanides, sulfides, sulfites, formaldehyde, and carbonates.

Section 11 - Toxicological Information

CAS#7647-01-0 Hydrochloric Acid

Acute:

Inhalation rat LC50: 4500 ppm/1hr.

Oral rabbit LD50: 1350 mg/kg.

Investigated as a tumorigen, mutagen, and reproductive effector.

Carcinogenicity: NTP: No **IARC:** No **Z List:** No **OSHA reg.** No

IARC category 3

Section 12 - Ecological Information

Bioaccumulation: Ehen released into the soil, this material is not expected to biodegrade. When released into the soil, this material may leach into groundwater.

Environmental Toxicity: This material is expected to be toxic to aquatic life. CAS# 7647-01-0: LC50 862 mg/l (Orfe, golden (Leuciscus Idus))

Section 13 - Disposal Considerations

DISPOSAL: Dispose of in accordance with all federal, state, and local regulations.

Section 14 – Transport Information

DOT

Class 8

PG II

UN 1789

Shipping Name: Hydrochloric Acid Solution

Section 15 - Regulatory Information

Symbol: C, Corrosive

Risk and Safety phrases

R-35, Causes severe burns

S-Phrases: 23-36/37/39-45. Do not breathe vapor. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing, gloves, and eye/face protection. In case of accident or if you feel unwell, seek medical advice immediately (show the label when possible)

The following component of this product is regulated as a toxic chemical under section 313 or Title III SARA, and 40 CFR 372: hydrochloric Acid CAS# 7647-01-0

Section 16 - Additional Information

SDS Creation Date: May 11, 2012

Revision # 1 4/10/13 MH

Rev. # 1 Change from MSDS to SDS

Rev. # 2 Change statement on section 13

Ruth Chabot. 3/31/17

Revision #3 2-20-18

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