

Section 1: Identification

Common Name/Trade Name	HYDROCHLORIC ACID 37%	
Supplier Information	Letco Medical, LLC 1316 Commerce Drive NW Decatur, AL 35601 1 (800) 239-5288 +1 (734) 843-4693	IN CASE OF EMERGENCY: Chemtrec 1 (800) 424-9300 (24 hours)
Product Synonym(s)	Hydrogen chloride	
Relevant Use(s) of Product	Manufacture or Compounding of Substances	

Section 2: Hazards Identification

Classification of Substance or Mixture	Acute Toxicity, Inhalation (Category 3), Skin Corrosion (Category 1A)	
Signal Word	Danger	
Hazard Statement(s)	H314 H331	Causes severe skin burns and eye damage Toxic if inhaled
Pictogram(s)		
Precautionary Statement(s)	P101 P261 P280 P305+P351+P338 P314 P403+P233 P405	If medical advice is needed, have product container or label at hand. Avoid breathing dust/fume/gas/mist/vapours/spray. Wear protective gloves/protective clothing/eye protection/face protection. IF IN EYES Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. continue rinsing. Get Medical advice/attention if you feel unwell. Store in a well ventilated place. Keep container tightly closed. Store locked up.
Hazards Not Otherwise Classified	Eyes: Causes eye burns. Ingestion: May be harmful if swallowed. Inhalation: May be harmful if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract. Skin: May be harmful if absorbed through skin. Causes skin burns.	
Ingredient(s) with Unknown Toxicity	No data available	

Section 3: Composition/Information on Ingredients

Chemical Name	Hydrochloric Acid		
Common Name	Hydrochloric Acid		
CAS Number	7647-01-0		
	Material	Percent	CAS
	Hydrochloric acid	37	7647-01-0
	Water	63	7732-18-5
Impurities and/or Stabilizing Additives	No data available		

Section 4: First Aid Measures

General Advice	Take proper precautions to ensure your own health and safety before attempting rescue and providing first aid. Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.
If Inhaled	Remove person to fresh air. If signs/symptoms continue, get medical attention. Give oxygen or artificial respiration as needed.
In Case of Skin Contact	Get medical aid. Immediately flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing/shoes.
In Case of Eye Contact	Thoroughly flush the eyes with large amounts of clean low-pressure water for at least 15 minutes, occasionally lifting the upper and lower eyelids. If irritation persists, seek medical attention.
If Swallowed	DO NOT induce vomiting. If vomiting does occur, have victim lean forward to prevent aspiration. Rinse mouth with water. Seek medical attention. Never give anything by mouth to an unconscious individual.
Most Important Symptoms and Effects	No data available

Section 5: Fire Fighting Measures

Suitable Extinguishing Media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special Hazards Arising From the Substance/Mixture	Hydrogen chloride gas expected to be the primary hazardous combustion product.
Special PPE and/or Precautions for Firefighters	Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Keep unopened containers cool by spraying with water.

Section 6: Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures	Use personal protective equipment. Avoid dust formation. Do not inhale vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing.
Methods and Materials Used for Containment	Stop leak. Contain spill if possible and safe to do so. Prevent from entering drains.
Cleanup Procedures	Absorb with an inert dry material and place in an appropriate waste disposal container. Keep disposal containers closed when finished.

Section 7: Handling and Storage

Precautions for Safe Handling	Do not get on skin or eyes. Do not inhale vapor or mist. Take normal fire prevention measures.
Conditions for Safe Storage	Keep container tightly closed in a dry and well-ventilated place. Opened containers should be resealed and kept upright to prevent leakage.

Section 8: Exposure Controls/Personal Protection

Components with Workplace Control Parameters	Occupational Exposure Limits: Component/Source/Type/Value/Note: Hydrochloric Acid/US (OSHA)/Ceiling/5ppm, 7 mg/m ³ /29 CFR 1910.1000 Table Z-1 Limits for Air Contaminants. Hydrochloric Acid/US (ACGIH)/Ceiling/5ppm, 7.5mg/m ³ / 29 CFR 1910.1000 Table Z-1 Limits for Air Contaminants.
Appropriate Engineering Controls	General room or local exhaust ventilation is usually required to meet exposure limit(s). Electrical equipment should be grounded and conform to applicable electrical code.
PPE - Eye/Face Protection	Use chemical safety goggles and/or a full face shield where splashing is possible. Use equipment approved by appropriate government standards, such as NIOSH (US) or EN166 (EU) Maintain eye wash fountain and quick-drench facilities in work area.
PPE - Skin Protection	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.
PPE - Body Protection	Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, and appropriate, to prevent skin contact.
PPE - Respiratory Protection	Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Section 9: Physical and Chemical Properties

Appearance	Form: Liquid, Color: Light yellow.
Upper/Lower Flammability or Explosive Limits	No data available
Odor	No data available
Vapor Pressure	Gas
Odor Threshold	No data available
Vapor Density	No data available
pH	No data available
Relative Density	1.18 g/mL at 20°C (68°F)
Melting Point/Freezing Point	No data available
Solubility	Soluble.
Initial Boiling Point and Boiling Range	-85C (-121F)
Flash Point	No data available
Evaporation Rate	No data available
Flammability (Solid, Gas)	No data available.
Partition Coefficient	No data available
Auto-Ignition Temperature	No data available
Decomposition Temperature	No data available
Viscosity	No data available

Section 10: Stability and Reactivity

Reactivity	No data available
Chemical Stability	Stable under recommended storage conditions.
Possibility of Hazardous Reactions	No data available
Conditions to Avoid	No data available
Incompatible Materials	Bases, Amines, Alkali metals, Metals, permanganates, e.g. potassium permanganate, Fluorine, metal acetylides, hexalithium disilicide
Hazardous Decomposition Products	Hazardous decomposition products formed under fire conditions-Hydrogen chloride gas.

Section 11: Toxicological Information

Acute Toxicity - LD50 Oral	No data available
Acute Toxicity - Inhalation	No data available
Acute Toxicity - Dermal	No data available
Acute Toxicity - Eye	Rabbit-Corrosive to eyes-24 hours.
Skin Corrosion/Irritation	Causes skin burns.
Serious Eye Damage/Irritation	Rabbit-Corrosive to eyes - 24 hours
Respiratory or Skin Sensitization	No data available
Germ Cell Mutagenicity	No data available
Carcinogenicity IARC	IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable or confirmed human carcinogen by IARC.
Carcinogenicity ACGIH	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
Carcinogenicity NTP	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
Carcinogenicity OSHA	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
Reproductive Toxicity	No data available
Specific Target Organ Toxicity - Single Exposure	No data available
Specific Target Organ Toxicity - Repeated Exposure	No data available
Aspiration Hazard	No data available

Section 12: Ecological Information

Toxicity	Acute Fish Toxicity (HYDROCHLORIC ACID) LC50 / 96 hours / Mosquito fish - 282 mg/L
Persistence and Degradability	No data available
Bio-accumulative Potential	No data available
Mobility in Soil	No data available
Other Adverse Effects	No data available

Section 13: Disposal Considerations

Waste Treatment Methods Product	Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.
Waste Treatment Methods Packaging	Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.
Special Precautions Landfill or Incinerations	No data available
Other Information	No data available

Section 14: Transport Information

UN Number	1789
UN Proper Shipping Name	Hydrochloric acid
Transport Hazard Class(es)	8
Packaging Group	II
Environmental Hazards	Marine pollutant: No

Section 15: Regulatory Information

OSHA Hazards: Corrosive. All ingredients are on the following inventories or are exempted from listing: Country/Notification: Australia/AICS, Canada/DSL, China/IECS, European Union/EINECS, Japan/ENCS/ISHL, Korea/ECL, New Zealand/NZIoC, Philippines/PICCS, United States of America/TSCA. SARA 302 Components: SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302. SARA 313 Components: The following components are subject to reporting levels established by SARA Title III, Section 313: HYDROCHLORIC ACID CAS-No. 7647-01-0 Revision Date 1993-04-24. SARA 311/312 Hazards: Acute Health Hazard. CERCLA: Hydrochloric acid CAS-No. 7647-01-0, RQ: 5,000 lbs. Massachusetts Right to Know Components: Hydrochloric acid CAS-No. 7647-01-0 Revision Date 1993-04-24. Pennsylvania Right To Know Components: CAS-No. 7647-01-0 Revision Date 1993-04-24. New Jersey Right to Know Components: Hydrochloric acid CAS-No. 7647-01-0 Revision Date 1993-04-24. California Prop 65 Components: This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

Section 16: Other Information

Additional Information	N/A
Prepared By	Scarlotte Smith
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Disclaimer

Letco Medical, LLC believes that the above information is correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. If the product is used as a component in another product, this information may not be applicable. NO WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE, WARRANTY OF MERCHANTABILITY OR ANY OTHER WARRANTY, EXPRESSED OR IMPLIED, IS MADE CONCERNING THE INFORMATION PROVIDED ABOVE. Letco Medical shall not be held liable for any loss or damage resulting from handling, storage, use or from contact with the above product.