

PRODUCT SAFETY DATA SHEET
GHS COMPLIANT
Hydrochloric Acid, 31.0% Tech (20° Be)

Section 1 – Product and Company Information

GHS Product Identification

Product Name: Hydrochloric Acid, 31.0% Tech (20° Be)

Other Identification Information

CAS Number: 7647-01-0

Florida Chemical ID: 2AC005T310L

Chemical Formula: HCl

Synonyms: Hydrogen chloride; muriatic acid;

Recommended Use and Restrictions on Use

Description and Uses: Pulp and paper industry; pH adjustment; production of chloride salts; surface treatment of metals; recovery of ion exchangers; water treatment; electronics industry; industrial cleaners

Supplier Information

Company Name/Address: Florida Chemical Supply, Inc
6810 East Chelsea Street
Tampa, FL 33610

Phone (Non Emergency) 813.623.1274

Emergency Phone Number

24 Hour Emergency Phone: 800.255.3924 (Chemtel)



Section 2 – Hazard Information

Classification of the Substance or Mixture

Corrosive to Skin 1B
Corrosive to Eyes 1
Acute Aquatic Toxicity - 2
Corrosive to Metals

GHS Label Elements

GHS Pictogram:



Signal Word:

DANGER

Hazard Statements:

H290: May be corrosive to metals
H314: Causes severe skin burns and eye damage
H335: May cause respiratory irritation

Precautionary Statements:

P234: Keep only in original packaging.
P261: Avoid breathing dust/fume/gas/mist/vapours/spray
P264: Wash hands thoroughly after handling.
P271: Use only outdoors or in a well-ventilated area
P280: Wear protective gloves/protective clothing/eye protection/face protection
P301+330+331: 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+340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing

Other Hazards Not Resulting In Classification

HMIS:

Health	3
Flammability	0
Reactivity	1
Personal Protection	X

Special Medical Response: In case of exposure, consult with a physician. Show this safety data sheet to the doctor in attendance.

Section 3 – Hazardous Composition

Component	CAS #	Wt. %
Hydrogen chloride	7647-01-0	31%

Section 4 – First Aid Information

Necessary First Aid Measures

Skin Exposure: Flush affected area with large amounts of clean water for fifteen minutes. Remove contaminated clothing and wash thoroughly before reuse. If any symptoms are experienced, seek medical attention. Immediately remove contaminated clothing and wash thoroughly before reuse.

Eye Exposure: Flush eyes with water for fifteen minutes. Remove contact lenses if easy to do. Cold water may be used. Get immediate medical attention.

Inhalation Exposure: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention if symptoms appear.

Ingestion: Do not induce vomiting unless directed to do so by competent medical authority. Never give anything by mouth to an unconscious person. Loosen tight clothing, such as collar, tie, belt or waistband. Get immediate medical attention.



Most Important Symptoms Acute and Delayed

Acute Effects: Severe eye and skin irritation and burns. Conjunctivitis, burns, corneal necrosis of the eyes. Destruction / irritation of mucous membranes, upper respiratory tract. Gastric hemorrhage, peritonitis, infection of digestive tract. May be fatal if swallowed or inhaled.

Delayed Effects: None known

Immediate Medical Attention or Special Treatment Requirements

NOTE TO PHYSICIAN: Probability of severe mucosal damage may containdicate the use of gastric lavage.

SECTION 5 – Firefighting Precautions

Suitable Extinguishing Media:

Water spray, alcohol resistant foam or carbon dioxide.

Specific Fire Hazards Arising from the Chemical:

Exposure hazard if containers rupture during fire.

Special Protective Measures for Firefighters

PPE for Firefighter: In the event of material discharge during fire, see Section 8. Otherwise, use fire protection equipment suitable to surrounding fire and materials.

Personal Precautions: See Section 8 for personal protection requirements.

PPE Requirements: In the event of material discharge during fire, see Section 8. Otherwise, use fire protection equipment suitable to surrounding fire and materials.

Precautionary Measures: Evacuate all non-responding personnel to a point upwind of fire.



SECTION 6 – Accidental Release Measures

For Non-Emergency Personnel

All untrained, non-essential, and non-responding personnel should be evacuated from the immediate area of the spill without delay. If Personal Protective Equipment is necessary to achieve evacuation safely, see Section 8 for requirements.

For Emergency / Response Personnel

Protective Equipment: See Section 8 for personal protection requirements.

Environmental Precautions: Do not allow this product, its rinsate, or any neutralizing agents, to enter into sewers, public waterways, streams, or any other groundwater sources. Product is toxic to the environment, and must be prevented from entering any local ecosystem.

Methods and Materials for Cleanup

Small Spill: Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container. If necessary, neutralize with a dilute solution of sodium carbonate.

Large Spills: Corrosive liquid. Poisonous Liquid. Stop leak if without risk. Absorb with DRY earth, sand or other non-combustible material. DO NOT get water inside container. DO NOT touch spilled material. Use water spray curtain to divert vapor drift. Use water spray to reduce vapors. Prevent entry into sewers, basements or confined areas; dike if needed ahead of spill for prevention of ecological release. Neutralize any residue with a dilute solution of sodium carbonate.

ALL SPILLS: Keep untrained, non-responding personnel away and upwind of any accidental release of this material. Do not allow any personnel to participate in cleanup efforts without donning appropriate PPE as outlined in Section 8 below, especially including proper respiratory protection.

NOTE: In the event of a large magnitude spill, it may be necessary to contact Emergency Response units, such as the local fire department hazardous materials response unit, in order to safeguard public safety. It may also be necessary to notify surrounding neighborhoods, residential, industrial or commercial, particularly those downwind of the accidental release site.



SECTION 7 – Handling and Storage

Precautions for Safe Handling

Keep container dry. Do not ingest. Do not breathe gas, fumes, vapor or spray. Never add water to this product, as this may cause spattering. Always add acids to water. If exposed see first aid information and seek immediate medical attention.

Conditions for Safe Storage, Including Incompatibilities

Storage: Keep container tightly closed. Keep container in a cool, well-ventilated area. Keep away from incompatibles. May corrode metallic surfaces. Store in a metallic or coated fiberboard drum using a strong polyethylene inner package.

Incompatible Materials: Oxidizing agents, metals, strong bases, reducing agents, alcohols, sulfides, monomers (e.g. Styrene)

Incompatible Conditions: Areas with poor ventilation. Extreme temperatures. Improper/unauthorized storage containers.

SECTION 8 – Exposure Controls and Personal Protection

Control Parameters

Exposure Limits: ACGIH, TLV: 2 ppm
OSHA, TLV: 5 ppm

Appropriate Engineering Controls

Safety shower and emergency eyewash should be located nearby and accessible to all points of product use, storage and handling.

Individual Protection Measures

Gloves: Acid resistant gloves - it is best to determine the effectiveness by contacting the manufacturer.

Respiratory: Respirators are recommended for handling of this product, even in areas where ventilation is adequate. Respirators must meet NIOSH standards, or other standards specified in 29 CFR 1920.134. Seek assistance from a respirator specialist for proper selection of



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mask and cartridge. In confined spaces, respiratory protection must be a self contained breathing apparatus.

Eyes:

Chemical splash goggles and face shield (minimum 8")

Other Protection:

Acid resistant coveralls, and/or acid resistant apron over chemical resistant work clothes. Protection should be designed to maximize prevention of skin contact. Acid/Chemical Resistant work boots are also necessary. Contact your local safety department for any other PPE required by local procedures.

Industrial Hygiene:

Personal hygiene is an important work practice exposure control measure and the following general measures should be taken when working with or handling this material:

- * Do not store, use, and/or consume foods, beverages, tobacco products, or cosmetics in areas where this material is stored.
- * Wash hands and face carefully before eating, drinking, using tobacco, applying cosmetics, or using the toilet.
- * Wash exposed skin promptly to remove accidental splashes or contact with this material.
- * Always thoroughly wash any contaminated clothing before reuse.



SECTION 9 – Physical Properties

Appearance:	Clear, colorless to pale yellow liquid	UEL/LEL:	Product is not considered to be flammable
Odor:	Pungent	Vapor Pressure:	128 mmHg
Odor Threshold:	NA	Vapor Density:	1.3 (Air = 1)
pH:	< 1.00	Relative Density:	1.17
Melt/Freeze Point:	- 22 F	Solubility:	Complete in Water
Boiling Point/Range:	> 212 F	Partition Coefficient (n-octanol/water):	No available data
Flash Point:	Not applicable	Auto Ignition Temp:	No available data.
Evaporation Rate:	Clear, colorless to pale yellow liquid	Decomposition Temp:	No available data
Flammability (solid/gas):	Not applicable	Viscosity:	Water

SECTION 10 – Stability and Reactivity

Reactivity:	Stable at normal pressures and temperatures.
Stability:	Product is chemically stable under normal conditions of handling and storage.
Conditions to Avoid:	Keep away from incompatible materials and water. Keep away from extreme temperatures.
Incompatible Materials:	Oxidizing agents; organic materials; alkalis; wate. Highly reactive to metals.
Decomposition Products:	Hydrogen Chloride Gas
Hazardous Polymerization:	Will not occur.



SECTION 11 – Toxicological Information

Acute Toxicity:	Corrosive to skin and eyes, causing severe irritation and burns. May be fatal if inhaled or swallowed.
Chronic:	Not known
Eyes:	No data available
Skin:	No data available.
Sensitization:	Exposure to asthmatic, atopic and sulfite sensitive individuals may result in severe bronchoconstriction and reduced levels in forced expiratory volume.
Mutagenicity:	No evidence for mutagenicity
Carcinogenicity:	This product does not contain any ingredients which have been classified as a carcinogen by NTP, IARC or OSHA.
Reproductive Toxicity:	No known reproductive toxicity
Target Organs:	Skin, mucous membranes, lungs, digestive tract
Aspiration Hazard:	Severe aspiration hazard. Aspiration of this product will cause severe damage to respiratory tract, and may be fatal.



SECTION 12 – Ecological Toxicity

Fish: No data available

Daphnia: No data available.

Algae: No data available.

SECTION 13 – Disposal Considerations

This product, and its rinsate, if classified as waste, are considered RCRA characteristic hazardous waste due to the corrosivity characteristic. Do not flush to sewers, storm drains, waterways, or any potential environmental water source. This product should be disposed of carefully in appropriate containers and using methods required by local, state and federal regulations. Containers should be disposed of as product. Where possible, larger containers such as drums or totes should be returned to the supplier for refill/reuse.

SECTION 14 – Transportation Information

UN Number: UN1789

Proper Shipping Name: Hydrochloric Acid

Packing Group: II

Hazard Class: 8

Subsidiary Hazards: None

Required DOT Label/s: UN1789, Hydrochloric Acid, 8 - Corrosive, PG II



SECTION 15 – Regulatory Information

TSCA: This product and/or all of its components are listed on the Section 8(b) TSCA Inventory.

CERCLA: 5,000 lbs

RCRA: D002 - Acid

SARA Tier 2 Components: HYDROCHLORIC ACID, 31%

State Right to Know Regulations:

State of California: NOT listed under Proposition 65 For other state Right to Know information, contact your local regulatory authority.

SECTION 16 – Other Information

Date Prepared: 4/21/2015

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Prepared By: Florida Chemical Regulatory Department

Approved By: Marc Maseman

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