

## **CL-120**

### SAFETY DATA SHEET

Version 1.0 Effective Date: 06/01/2015

#### 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: CL-120

Description: Inorganic Acid

Suggested Use: Industrial Water Treatment Descaler
Restrictions on Use: Do not mix with other industrial chemicals.

Supplier: Advanced Chemical Technology, Inc.

8728 Utica Avenue

Rancho Cucamonga, CA 91730 1-909-980-4556 or 1-800-632-1777

Fax: 1-909-980-9366

Emergency Phone: 1-800-255-3924 (CHEMTEL)

#### 2. HAZARDS IDENTIFICATION

Telephone:

#### Classification

GHS Classification: Skin Corrosion (Category 1A)

Serious Eye Damage (Category 1) Acute Toxicity, Oral (Category 4) Acute Aquatic Toxicity (Category 3) Corrosive to Metals (Category 1)

#### **GHS Label Elements**

Pictogram:

Signal Word: Danger

Hazard Statements: H290: May be corrosive to metals

H314: Causes severe skin burns and eye damage

H302: Harmful if swallowed

H335: May cause respiratory irritation

H402: Harmful to aquatic life

Precautionary Statements: P260: Do not breathe mist/vapors/spray

P264: Wash hands thoroughly after handling

P280: Wear protective gloves/ protective clothing/ eye protection/ face

protection.

P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for

breathing

P303+P361+P353: IF ON SKIN OR HAIR: Remove all contaminated clothing.

Rinse skin with water/shower.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P301+P330+P331: IF SWALLOWED: Rinse mouth. Do not induce vomiting.

P313: Get medical attention.

HMIS Classification: Health Hazard: 3

Flammability: 0 Physical Hazards: 1



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NFPA Rating: Health Hazard: 3

Fire: 0 Reactivity Hazard: 1

**Potential Health Effects** 

Inhalation: Severe irritant to mucous membranes and respiratory system

Skin: Will cause corrosive action on contact with skin. Severe burns to tissue may

result.

Eyes: Severe irritation and burns to mouth, throat, esophagus and stomach.

Ingestion: This material is corrosive to the mouth and throat.

3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Component</u> <u>CAS Number</u> <u>Concentration</u>

Hydrochloric Acid (< 35%) 7647-01-0 31%

Synonyms:

4. FIRST AID MEASURES

If Inhaled: If not breathing, give artificial respiration. Consult a Physician.

Skin Contact: Immediately remove contaminated clothing and shoes, wash before reuse.

Flush all affected areas with large amounts of water for at least 15 minutes.

Eye Contact: Immediately flush the eyes with large quantities of running water for a minimum

of 15 minutes. Obtain medical attention immediately.

If Ingested: Never give anything by mouth to an unconscious person. If swallowed, do not

induce vomiting. Give large quantities of water (If available, give several glasses of milk). If vomiting occurs spontaneously, keep airway clear and give more

water. Consult a physician immediately.

5. FIREFIGHTING MEASURES

Flammability Overview: Water solutions of hydrochloric acid are strongly acidic. May react with active

metals to produce flammable hydrogen.

Flash Point: Not Applicable

Extinguishing Media: Water-spray, foam, carbon dioxide or dry chemical for fires in storage areas.

Special Protective Equipment

for Firefighters:

Wear a self-contained breathing apparatus (SCBA) for firefighting if necessary.

**Hazardous Combustion** 

Products:

Hydrogen, Hydrogen chloride.

**6. ACCIDENTAL RELEASE MEASURES** 

Personal Precautions: Use personal protective equipment. Wear goggles, rubber boots, respirator, and

gloves.

Environmental Precautions: Prevent from entering drains and waterways. Discharge into the environment

must be avoided.



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Containment and Clean Up: Soak up with inert absorbent material and dispose of as hazardous waste. Keep

in suitable, closed containers for disposal. If assistance is needed call

CHEMTEL or emergency services.

7. HANDLING AND STORAGE

Safe Handling: Use personal protective equipment. Avoid breathing vapors, mist, or gas.

Always ensure adequate ventilation.

Safe Storage: Keep containers tightly closed in a dry well-ventilated place. Containers which

are opened must be carefully resealed and kept upright to prevent leakage.

Store away from incompatible materials.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **Exposure Limits**

Component	CAS Number	Exposure Limit	Basis
Hydrochloric acid (< 35%)	7647-01-0	5 ppm ceiling	ACGIH Threshold Value (TLV)
		5 ppm ceiling	OSHA Table Z-1: Limits for Air Contaminants
		Not Established	NIOSH Recommended Exposure Limits

## Personal Protective Equipment

Eye Protection: Wear tightly fitting safety goggles or safety glasses with a full-face shield. Use

equipment for eye protection tested and approved under appropriate government standards such as NIOSH. Have eye-wash stations available

where eye contact can occur.

Hand Protection: Handle with chemical-resistant gloves. Gloves must be inspected prior to use.

Dispose of contaminated gloves. Wash and dry hands after use.

Skin Protection: Wear complete suit protection against chemicals, including chemical-resistant

boots. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Safety showers should be located in the work area where skin

contact can occur.

Respiratory Protection: Where risk assessment shows air-purifying respirators are appropriate, use a

NIOSH-approved full-face respirator with appropriate cartridges. For high concentrations, unknown concentrations, and for oxygen deficient atmospheres, use a NIOSH approved air-supplied respirator. Respiratory protection may be needed for non-routine or emergency situations. Respiratory protection must be

provided in accordance with OSHA 29 CFR 1910.134.

General Controls: Always ensure adequate ventilation and that working areas contain safety

showers and eye wash stations. Handle material in accordance with good

industrial hygiene and safety practices.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid
Color: Amber
Odor: Pungent



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Odor Threshold: Not Established

pH: < ^

Melting/Freezing Point: Not Established

Boiling Point: 185°F

Flash Point:

Evaporation Rate:

Flammability (solid, gas):

Flammability/Explosion Limits:

Not Established

Not Established

Not Established

Vapor Pressure @ 20°C: 20mm Hg Vapor Density: 1.27 Specific Gravity: 1.16 Density: 9.68 Solubility in Water: Complete Partition Coefficient: Not Established Autoignition Temperature: Not Established Decomposition Temperature: Not Established Viscosity: Not Established

#### 10. STABILITY AND REACTIVITY

Chemical Stability: Stable under normal temperatures and pressures

Conditions and Materials to

Avoid:

Strong oxidizing agents, strong caustic, metals

Hazardous Decomposition

Products:

Hydrogen, Hydrogen chloride

#### 11. TOXICOLOGICAL INFORMATION

#### **Acute Toxicity**

Component	CAS Number	Test	Toxicity
	7647-01-0	Oral LD50 (Rat)	900 mg kg
Hydrochloric Acid (< 35%)		Dermal LD50	Not Established
		Inhalation LC50 (Rat)	3124 ppm for 1 hr

#### **Potential Health Effects**

Inhalation: Severe irritant to mucous membranes and respiratory system.

Skin: Will cause corrosive action on contact with skin. Severe burns to tissue may

result.

Eyes: Severe burns and corneal damage will occur. Vapor is irritating to eyes. Ingestion: Severe irritation and burns to mouth, throat, esophagus and stomach.

Signs and Symptoms of

Exposure:

Skin irritation and lesions, chronic asthma, emphysema and bronchitis.

Chronic Effects of Long-term

Exposure:

Primary irritant dermatitis. Prolonged contact may result in destruction of tissue.

Carcinogenicity: No component of this product at levels greater than 0.1% is identified as

carcinogenic by IARC, ACGIH, or OSHA.



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#### 12. ECOLOGICAL INFORMATION

#### **Acute Ecotoxicity**

Component	CAS Number	Organism	Ecotoxicity
Hydrochloric Acid (< 35%)	7647-01-0	Bluegill/Sunfish	3.6 mg/L 48 Hr Lethal

#### **Ecological Effects**

Persistence and Degradability: Rapidly hydrolyzes when exposed to water

Bioaccumulation Potential: Not expected to bio-accumulate

Mobility in Soil: Will exhibit extensive evaporation from soil surfaces. Upon transport through

the soil, hydrochloric acid will dissolve some of the soil materials (especially those with carbonate bases) and the acid will neutralize to some degree.

Other Adverse Effects: Harmful to aquatic life. The damaging effects are mostly the consequence of the

increase in pH of the water.

#### 13. DISPOSAL CONSIDERATIONS

Disposal: Surplus and non-recyclable material should be treated as hazardous waste and

be disposed of by a licensed disposal company. Material should be disposed in accordance with all local, state, and federal regulations. Regulations vary by

region. Do not release into sewers or waterways.

Contaminated Packaging: Dispose of as unused product.

#### 14. TRANSPORT INFORMATION

#### **DOT Information**

Proper Shipping Name: Corrosive liquids, n.o.s. (Hydrochloric acid)

UN Number: 1789 Hazard Class: 8 Packing Group: II

Reportable Quantity (RQ): Hydrochloric Acid: 5000 lbs.

Marine Pollutant: Not Established

Note: Regulated for both bulk and non-bulk.

#### 15. REGULATORY INFORMATION

#### **US Federal**

SARA 302 Components: Not Established SARA 311/312 Hazards: Acute Health Hazard

SARA 313 Components: This product contains a Section 313 listed toxic chemical subject to release

reporting requirements Hydrochloric acid.



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TSCA Inventory: All chemical components are listed on TSCA Inventory.

**European Union** 

EC Inventory: None Listed

State Regulations

CA Prop 65: This product does not contain chemicals currently on the California list of known

carcinogens and/or reproductive toxins.

#### 16. OTHER INFORMATION

SDS Version: 1.0

Revision Date: 06/01/2015

Disclaimer: The information contained in this document was carefully compiled and is

believed to be accurate. The information represents the present state of our knowledge and is applicable to the product with the regard to appropriate safety precautions. However, it does not represent any guarantee of the properties of the product. Advanced Chemical Technology, Inc. shall not be held liable for any damages resulting from handling or from contact with the above product. It is the responsibility of the purchaser to determine the suitability of the product for their particular purposes. Nothing contained herein shall be construed to be a recommendation to use, or as a license to operate under or to infringe any existing patents. For product information call Advanced Chemical Technology,

Inc., 1-909-980-4556.