

Chautauqua Chemicals Company, Inc.

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Safety Data Sheet

OSHA Hazard Communication Standard 29 CFR 1910.1200. Prepared to GHS Revision 03.

Date Revised: 5/7/2015

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name:

Muriatic Acid 20° Baume

Synonyms:

Hydrochloric Acid, Hydrogen Chloride Solution

Product Use:

Industrial/Manufacturing use only

Manufacturer:

Chautaugua Chemicals Co., Inc.

4743 Cramer Drive

PO Box 100

Ashville, NY 14710 USA Tel. 1 (716) 763-4114

Emergency Phone:

CHEMTREC (USA):

1 (800) 424-9300

2. HAZARD CLASSIFICATION

GHS Classification:

Health **Physical** Corrosive to Metals Skin Corrosion: Category 1A Category 1

Eye Damage: Category 1 Specific Target Organ Category 3 Toxicity - Single Exposure

GHS Label:

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

Prevention

P234 Keep only in original container.

Avoid breathing fumes, gases, mists, vapors, or spray. P261

Wash hands and skin surfaces exposed to material thoroughly after handling. P264

Use only outdoors or in a well-ventilated area. P271

Wear protective gloves, protective clothing, eye protection, and face protection. P280

Response

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P301+ P330 + P331

IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse P303 + P361 + P353

skin with water or shower.

IF INHALED: Remove victim to fresh air and keep at rest in a position P304 + P340

comfortable for breathing.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact P305 + P351 + P338

lenses, if present and easy to do. Continue rinsing.

Immediately call a POISON CENTER or physician. P310

Specific treatment: See corresponding SDS for specific handling instructions. P321

P363 Wash contaminated clothing before reuse. Absorb spillage to prevent material damage. P390

Storage

Store in a well-ventilated place. Keep container tightly closed. P403 + P233

P405 P406 Disposal

P501

Store locked up.

Store in a corrosive resistant container with a resistant inner liner.

Dispose of contents/container in accordance with local, regional, national, and international regulations for disposal.

3. COMPOSITION/INFORMATION OF INGREDIENTS

Ingredient	CAS No.	NIOSH (RTECS) No.	Percent (w/w)	Classification
Hydrochloric Acid	7647-01-0	MW4025000	10 – 36.9 %	H290, H314, H335
Water	7732-18-5	ZC0110000	Balance	Non-Hazardous

4. FIRST AID MEASURES

General Advice/Information: Move out of dangerous area. Consult a physician. Show this safety data sheet

to a doctor in attendance.

If breathed in, move person to fresh air. If breathing is irregular, if respiratory Inhalation:

arrest occurs, or if not breathing, give artificial respiration or oxygen. Consult a

physician immediately.

Immediately flush skin with plenty of water for at least 15 minutes while Skin Contact:

removing contaminated clothing and shoes. Immediately take victim to hospital. Immediately consult a physician. Wash clothing before reuse. Immediately flush eyes with gentle but large stream of water for at least 15

minutes, lifting lower and upper eyelids occasionally. Remove contact lenses.

Consult a physician immediately.

Do not induce vomiting. Rinse mouth with water and drink 1-2 glasses of water Ingestion:

or milk. If vomiting occurs, lower victim's head below hips to prevent inhalation of material. Never give anything by mouth to an unconscious person. Consult a

physician immediately.

Corrosive to eyes and skin, causes chemical burns and may result in Important Symptoms (Acute):

blindness. Causes burns if swallowed. May cause serious permanent damage. Prolonged or repeated exposure can cause permanent damage.

Important Symptoms (Delayed):

Indication of any Immediate

Medical Care/Special Treatment: No further relevant information available.

5. FIREFIGHTING MEASURES

Conditions of Flammability:

Fire Extinguishing Media:

Exposure Hazards:

Eye Contact:

Not flammable or combustible

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

See Section 4 and Section 10 for information on hazards when this material is

present in the area of a fire.

Protection for Firefighters:

In event of a fire, wear full protective clothing and NIOSH-approved selfcontained breathing apparatus with full face piece operated in the pressure

demand or other positive pressure mode.

Product reacts with metals producing flammable hydrogen gas. Use water Further Information:

spray to cool unopened containers.

6. ACCIDENTAL RELEASE MEASURES

Wear appropriate personal protective equipment as specified in Section 8. Personal Precautions:

Avoid mist formation. Avoid breathing fumes, gases, mists, vapors, or spray.

Ensure adequate ventilation. Evacuate personnel to safe areas.

Prevent further leakage or spillage if safe to do so. Do not let product enter **Environmental Precautions:**

drains. In the event of significant spills local authorities should be notified.

For small spills: Carefully dilute with water and mop up, or absorb with an inert Cleanup Methods/Materials:

dry material and place in an appropriate waste disposal container. If necessary,

neutralize spilled material and residues.

For large spills: 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. Carefully neutralize residues and spilled material. Be careful that the product is not present at a concentration level above those specified in Section 8. Contact a waste disposal expert for assistance.

7. HANDLING AND STORAGE

Handling: Avoid breathing fumes, gases, mists, vapors, or spray. Avoid contact with eyes,

skin and clothing. Do not eat, drink or smoke while handling. Ensure adequate ventilation/fume exhaust hoods. Ensure that eyewash stations and safety showers are proximal to work-station location. Keep away from metals. Use corrosion resistant pumps and hoses for handling. Dilution with water causes

heating. Always add acid to water. Never add water to acid.

Storage: Store in original container, away from substances listed in Section 10. Keep

container tightly closed in a dry and well-ventilated place. Follow all

precautionary information on container label.

Storage Temperature

Keep Above: Keep Below:

2° C (36° F) 35° C (95° F)

Shelf Life (Days):

730 Days

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with Workplace Control Parameters

Components	CAS No.	ACGIH TLV		NIO	NIOSH REL	
		(TWA)	(CEIL)	(TWA)	(CEIL)	(TWA)
Hydrochloric Acid	7647-01-0	No Data	2 ppm	No Data	7 mg/m ³	7 mg/m³

Personal Protective Equipment (PPE):

Skin Protection: Handle with gloves. Nitrile rubber, or other impervious material is appropriate.

Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws

and good laboratory practices. Wash and dry hands.

Eye Protection: Avoid contact with eyes, wear splash-proof chemical goggles, face shield,

safety glasses (spectacles) with brow guards and side shields, etc. as may be appropriate for the exposure. Use equipment for eye protection tested under

appropriate government standards such as NIOSH.

Body Protection: Complete suit protecting against chemicals. The type of protective equipment

must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Prevent contact with skin. Appropriate

gloves should be worn at all times while handling.

Respiratory Protection: Wear NIOSH or MSHA approved, dust/mist-type respirators, where dust or

mist may be generated. Prevent inhalation of mists. Use in a well-ventilated

room. Open doors and/or windows to ensure airflow and air changes.

Mechanical ventilation may be required if product mist is created in processing. Use local exhaust ventilation to remove airborne contaminants from employee

breathing zone and to keep contaminants below levels listed above.

Hygiene Measures: Handle in accordance to good industrial hygiene and safety practice. Wash

hands before breaks and at the end of workday.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form:

Clear Liquid

Color:

Colorless to Light Yellow

Safety Data

pH:

< 1 at 25 °C (77 °F)

Melting/Freezing Point:

- 62.5 °C (-80.5 °F)

Boiling Point and Range:

Flash Point:

84 °C (183 °F) Not Applicable

Auto-ignition Temperature:

No Data Available

Decomposition Temperature:

No Data Available

Flammability:

No Data Available

Lower Flammability Limit:

No Data Available

Upper Flammability Limit:

No Data Available

Vapor Pressure:

4.7 kPa (35 mmHg) at 25 °C (77 °F)

Vapor Density:

No Data Available

Density:

1.18 g/mL at 22 °C (71.6 °F)

Solubility:

Soluble

Partition Coefficient:

n-octanol/water

No Data Available

Viscosity:

No Data Available

Percent Volatile: Odor: 100% (w/w)

Odor Threshold:

Pungent Odor No Data Available

Evaporation Rate:

> 1 (Butyl Acetate = 1)

10. STABILITY AND REACTIVITY

Chemical Stability:

Stable under normal conditions of storage and use.

Possibility of Hazardous

Reactions:

No Data Available

Hazardous Decomposition

Products:

Hydrogen chloride gas.

Conditions to Avoid: Incompatible Materials:

Incompatible materials, direct sunlight and extreme temperatures. Bases, oxidizing agents, cyanides, amines, alkali metals, metals,

permanganates (e.g. potassium permanganate), fluorine, metal acetylides, hexalithium disilicide, hydroxides, sulfides, carbonates, hypochlorites,

formaldehyde.

11. TOXICOLOGY INFORMATION

Toxicity

LD₅₀

 LC_{50}

Hydrochloric Acid

Dermal - 5010 mg/kg (Rabbit)

No Data Available

Reproductive Effects	<u>Teratogenicity</u>	Mutagenicity	Embryotoxicity	Sensitization	Synergistic Products
No Data	No Data	No Data	No Data	No Data	No Data
Available	Available	Available	Available	Available	Available

Carcinogenicity

NTP:

No component of this product present at levels ≥ 0.1% is identified as probable,

possible or confirmed human carcinogen.

IARC:

Group 3 (Hydrochloric Acid): Not classifiable as to its carcinogenicity to

humans.

Likely Routes of Exposure:

Eye and skin contact, Inhalation.

Specific Target Organ Toxicity

Single Exposure:

Eye and skin contact, Inhalation - Causes severe chemical burns to exposed

tissues. Material is extremely destructive to mucous membranes and

respiratory tract.

Repeated Exposure:

Eye and skin contact, Inhalation - Causes permanent damage to exposed

tissues, mucous membranes and respiratory tract.

Potential Health Effects

Inhalation

Harmful if inhaled. Material is extremely destructive to the tissues of the

mucous membranes and upper respiratory tract.

Skin Eves Corrosive to skin. Causes chemical burns resulting in permanent scarring. Causes severe eye burns. May cause permanent damage to eye tissue and/or

loss of vision.

Ingestion Harmful if swallowed. Causes severe burns of the mouth and esophagus.

Signs of Symptoms and Exposure: Respiratory tract irritation, irritation of throat, eyes, and exposed skin surfaces.

Skin rash or inflammation.

To the best of our knowledge, the chemical, physical, and toxicological Additional Information:

properties have not been thoroughly investigated at product concentrations.

12. ECOLOGICAL INFORMATION

Toxicity

Hydrochloric Acid

Fish:

Mosquito Fish (LC₅₀) = 282 mg/L (96 hr)

Bluegill (LC₅₀) = 3.6 mg/L (48 hr) Leuciscus idus (LC50) = 862 mg/L

Mobility:

Water soluble.

Degradability:

Inorganic substance that is not biodegradable.

Bioaccumulation:

None expected.

General Notes:

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system. Material is expected to be harmful to aquatic

organisms due to the shift in pH of the receiving system.

13. DISPOSAL CONSIDERATIONS

Recommendation:

Do not allow to reach sewage system. Check pH of waste to be disposed. Neutralize if necessary. Care must be taken when using or disposing of chemical materials and/or their containers to prevent environmental

contamination. It is your duty to dispose of the chemical materials and/or their containers in accordance with all federal, state, or local laws and regulations.

Consult disposal expert.

HYDROCHLORIC ACID

Contaminated Packaging:

Dispose of as unused product.

14.TRANSPORT INFORMATION

DOT (US)

UN Number: 1789 Class: 8 Packing Group: II

UN Proper Shipping Name:

Marine Pollutant:

No

Poison Inhalation Hazard:

No

Component Reportable Quantity:

5000 Lbs (Hydrochloric Acid)

Product Reportable Quantity:

Exceeds product packaging size.

15. REGULATORY INFORMATION

U.S. Toxic Substances Control Act All components of this product are on the TSCA Inventory or are exempt from

TSCA Inventory requirements.

Superfund Amendments and Reauthorization Act (SARA)

SARA 302 Components:

No chemicals in this material are subject to the reporting requirements of

SARA Title III. Section 302.

SARA 313 Components:

Hydrochloric Acid (CAS No. 7647-01-0)

SARA 311/312 Hazards:

Acute Health Hazard, Reactive Hazard

Clean Air Act

Hazardous Air Pollutants:

Hydrochloric Acid (CAS No. 7647-01-0)

Class I Substances

None

Class II Substances

None.

Proposition 65:

This product does not contain any chemicals known to the State of California to

cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

HMIS Rating:

Health: 3

Flammability: 0

Reactivity: 1

SDS Number:

52914A

Revision Date:

May 7, 2015

The information contained herein is offered only as a guide to the handling of the specific material and has been prepared and compiled in good faith from sources considered to be dependable. The information is accurate and reliable to the best of our knowledge and belief, but is not guaranteed to be so. It is not intended to be all-inclusive and the manner and conditions of use and handling may involve other and additional considerations. No warranty of any kind is given or implied and Chautauqua Chemicals Company, Inc. will not be liable for any damages, losses, injuries or consequential damages which may result from the use or reliance on any information contained herein.