

# Safety Data Sheet

Product Name: 8396

Revision Date: June 4, 2015

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## Section #1: Chemical Product and Company Identification

Product Name: 8396

Other mean of identification: None

Chemical use/Restrictions: For industrial, commercial, institutional use only. Not intended for household use.

Manufacturer / Distributor: Enerco Corporation

Address: 317 N. Bridge St., Grand Ledge, MI 48837

Telephone: (800) 292-5908

Fax: (517) 627-8037

**For chemical emergency - spill, leak, fire, exposure or accident - call CHEMTREC - day or night - (800) 424-9300**

## Section #2: Hazards Identification

Signal Word: **Danger**



Exclamation  
Mark



Corrosion

<u>Classification Number and Name</u>	<u>Appendix Reference</u>	<u>Hazard Statement</u>	<u>Hazard Category</u>
C.4.4 Skin Corrosion/Irritation	A.2	Causes severe skin burns and eye damage	1A
C.4.5 Eye Damage/Irritation	A.3	Causes serious eye damage	1
C.4.29 Corrosive to Metals	B.16	May be corrosive to metals	1
C.4.11 Specific Target Organ Toxicity (Single Exposure)	A.8	May cause respiratory irritation	3

## Precautionary Statements

### Prevention

Keep only in original container.

Do not breathe dusts or mists.

Avoid breathing dust/fume/gas/mist/vapors/sp ray.

Wash exposed body parts thoroughly after handling.

Use only outdoors or in a well-ventilated area.

Wear eye protection/face protection

Wear protective gloves/protective clothing/eye protection/face protection.

### Response

If swallowed: Rinse mouth. Do NOT induce vomiting.

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

If inhaled: Remove person to fresh air and keep comfortable for breathing.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Immediately call a poison center/doctor.

Call a poison center/doctor if you feel unwell.

Wash contaminated clothing before reuse.

Absorb spillage to prevent material damage.

### Storage

Store in a well-ventilated place.

Keep container tightly closed.

Store locked up.

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

### Disposal

Dispose of contents/container to comply with all local, state, and federal regulations.

**Other Hazards:** No other hazards identified during the classification process.

**Unknown Acute Toxicity:** No ingredients of unknown toxicity.

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## Section #3: Composition/Information on Ingredients

Chemical Name	CAS Number	Weight %	OSHA PEL	ACGIH TLV
<input checked="" type="checkbox"/> Hydrochloric Acid	7647-01-0	32-37%	C 5 ppm	C 2 ppm

Indicates hazardous substances. Remainder of components comprise proprietary information. This document is prepared pursuant to the OSHA Hazard Communication Standard, 29 CFR 1910.1200. In addition, other substances not "hazardous" per this OSHA standard may be listed.

## Section #4: First Aid Measures

**EMERGENCY OVERVIEW:** Can be extremely corrosive to eyes, skin, etc.

**Eye:** Immediately flush with water for 20 - 30 minutes - be sure eyelids are held open during flushing. If irritation persists, repeat flushing. Get immediate medical attention.

**Skin:** Flush with water for 20 - 30 minutes. Remove contaminated clothing and shoes. Get immediate medical attention.

**Inhalation:** Remove to fresh air if effects occur. If breathing is difficult, give oxygen. If not breathing, perform artificial respiration. Get medical attention immediately.

**Ingestion:** Never give anything by mouth to an unconscious person.  
DO NOT INDUCE VOMITING. If conscious, give large quantities of water, follow with milk if it is available. Get medical attention immediately.

**Potential Health Effects:** See Section 11 for toxicological data

**Effects of Acute Exposure:**  
Eye: Vapor, mist, or splashed liquid can cause irritation to severe burns with possible permanent damage.  
Skin: Vapor, mist, or splashed liquid can cause irritation to severe burns with possible permanent damage.  
Inhalation: Vapor, fumes may cause irritation to severe irritation with coughing, choking, and difficulty in breathing.  
Ingestion: Swallowing can cause corrosive burns to mouth, throat, esophagus and gastrointestinal tract. Can be fatal.

**Effects of Chronic Exposure:** Long term exposure to concentrated vapors may cause erosion of teeth. Long term exposures seldom occur due to the corrosive properties of the acid.

**Medical Conditions Generally Aggravated by Exposure:** Persons with pre-existing skin disorders or eye disease may be more susceptible to the effects of this substance.

## Section #5: Fire-Fighting Measures

**NFPA Hazard Codes - (Health / Flammability / Reactivity):**

2 / 0 / 1

**NFPA Code Legend**

4 - Severe Hazard  
3 - Serious Hazard  
2 - Moderate Hazard  
1 - Slight Hazard  
0 - Minimal Hazard

**Extinguishing Media:** If involved in fire, use water spray. Neutralize with soda ash.

**Unusual Fire and Explosive Hazards:** Not considered to be an explosion hazard. Extreme heat or contact with metals can release flammable hydrogen gas.

**Special Fire Fighting Procedures:** Fire fighters should wear full protective gear including self-contained breathing apparatus. Structural firefighter's protective clothing is ineffective for fires involving hydrochloric acid.

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## Section #6: Accidental Release Measures

**Spill and Leak Procedure:** Contain spill. Keep out of drains, sewers, lakes, streams, or other water systems. If possible, recover as much of product as possible to be used for its intended purpose. Neutralize with alkaline material then use commercially available absorbent which does not react with spilled chemical and put into disposal container. Wash area with water. Water must go to a treatment plant, not to the environment.

**Disposal:** Dispose of in accordance with all applicable federal, state, and local health and environmental standards and regulations.

## Section #7: Handling and Storage

**Precautions to be Taken in Handling:** Avoid contact with eyes, skin, and clothing. Avoid breathing vapor. Keep container tightly closed when not in use. Do not ingest. When diluting, the acid should always be added slowly to water and in small amounts. NEVER use hot water and NEVER add water to the acid.

**Precautions to be Taken in Storage:** Store in a cool, dry, ventilated storage area with acid resistant floors and good drainage. Store below 120°F. Keep out of direct sunlight and away from heat, water, and incompatible materials. Normal shelf life 1 year. Do not store with or near food supplies or potable water.

## Section #8: Exposure Controls / Personal Protection

**Permissible Exposure Limits:** ACGIH TLV: 7.5 mg/m<sup>3</sup> for Hydrochloric Acid

**Ventilation:** If user operations generate airborne material, use process enclosures, local exhaust ventilation, or other engineering controls to control exposure. Use adequate ventilation to keep below exposure limits.

**Eye Protection:** Chemical splash goggles and/or face shield. Eyewash fountain in the workplace strongly recommended.

**Skin Protection:** Rubber or neoprene gloves. Splash apron recommended. Shower recommended.

**Respiratory Protection:** None needed, if ventilation is adequate. If airborne concentrations exceed the published exposure limits use NIOSH/MSHA approved, full face respirator.

**Other Protection Equipment:** Any other protective clothing or use of equipment necessary to prevent eye and skin contact.

## Section #9: Physical and Chemical Properties

**Appearance:** Colorless To Slight Amber Fuming Liquid

**Flammable Limits:** Not applicable

**Odor:** Pungent Odor Of Hydrogen Chlor

**Vapor Pressure:** 190@77°F

**Odor Threshold:** No Information Available.

**Vapor Density:** No Data Available

**pH (1% sol'n, unless noted):** <1

**Relative Density:** No Information Available.

**Melting Point (deg. F):** No Information Available.

**Solubility in Water:** Complete

**Boiling Point (deg. F):** Greater Than 200

**Partition Coefficient:** No Information Available.

**Flash Point:** Not applicable

**Auto-ignition (deg. F):** No Information Available.

**Evaporation Rate:** No Data Available

**Decomposition (deg. F):** No Information Available.

**Flammability (NFPA Rating):** 0

**Viscosity:** No Information Available.

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## Section #10: Stability and Reactivity

**Reactivity (NFPA Rating):** 1

**Chemical Stability:** Stable.

**Hazardous Reactions:** Will not occur.

**Conditions to Avoid:** Avoid Temperatures Above 120°F Or Below 40°F. Direct Sunlight

**Incompatibility:** Oxidizing And Reducing Agents, Metals, Bases, Aldehydes

**Hazardous Decomposition Products:** Emits Toxic HCl Fumes and Explosive Hydrogen Gas

## Section #11: Toxicological Information

Skin and eye irritation and/or burns are expected to be the primary target organs of this product.

For Hydrochloric acid (concentrated): inhalation Rat LC50 - 3124ppm/1H; oral Rabbit LD50 - 900mg/kg

**Ingredients as Carcinogens:** To the best of our knowledge, this product does not contain any substances that are considered by OSHA, NTP, IARC, or ACGIH to be 'probable' or 'suspected' human carcinogens.

## Section #12: Ecological Information

When released to the soil this material is not expected to biodegrade. and may leach into groundwater. This material is expected to be toxic to aquatic life.

## Section #13: Disposal Considerations

Best route is to use product for its originally intended purpose.

Dispose of in accordance with applicable environmental standards and in accordance with all local, state, and federal laws and regulations.

## Section #14: Transport Information

**DOT Proper Shipping Name:** Hydrochloric Acid

**DOT Hazard Class:** 8

**DOT UN Number:** UN 1789

**DOT Label:** CORROSIVE

**DOT Packing Group:** II

The shipping name listed above applies to a 55 gallon drum size (~500 lbs) of the product offered for ground transport. This product may have more than one proper shipping name, depending on packaging, product properties, and mode of shipment.

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## Section #15: Regulatory Information

**TSCA:** All Ingredients Are On The TSCA Inventory Or Are Not Required To Be Listed On The TSCA Inventory.

**RCRA Hazard Class:** Product Waste May Exhibit Characteristic Of Corrosiveness.

**CERCLA RQ:** Listed "Hydrochloric Acid" RQ 5,000 Lbs.

### SARA Title III

**Extremely Hazardous Substance:** Listed: Hydrochloric Acid TPQ 500 Lbs

**Hazardous Substance:** Hazard due to: Corrosiveness

**Hazard Catagorization:**  Sudden Release of Pressure  Immediate (Acute) Health  
 Reactive  Delayed (Chronic) Health  
 Fire

**Section 313 Chemicals:** This product contains the following EPCRA Section 313 chemical subject to the reporting requirements of Section 313 of The Emergency Planning and Community Right-To-Know Act of 1986(40CRF372)

CAS#	Chemical Name	% by weight
7647-01-0	Hydrochloric Acid	10-20

This information should be included in all MSDS's that are copied and distributed for this material.

### STATE RIGHT-TO-KNOW

CHEMICAL NAME	CAS NUMBER	LIST
Hydrochloric Acid	7647-01-0	FL,MA,MN,NJ1,NJ2,NY,PA1,PA2

FL=Florida Hazardous Substance MA=Massachusetts Hazardous Substance MN=Minnesota Hazardous Substance  
NJ1=New Jersey RTK Hazardous Substance NJ2=New Jersey TCPA Extremely Hazardous Substance NY=New York  
Hazardous Substance PA1=Pennsylvania Hazardous Substance (present at greater than or equal to 1.0%)  
PA3=Pennsylvania Environmental Hazardous Substance (present at greater than or equal to 1.0%.)

## Section #16: Other Information

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We believe that the statements, technical information, and recommendations contained herein are reliable. However, since data, safety standards, and government regulations are subject to change and conditions of handling and of use or misuse are beyond our control, and since health and safety precautions given may not be adequate for all individuals and/or situations, we make no warranty, either expressed or implied, with respect to the continuing accuracy of the information contained herein.