

Hydrochloric Acid

SDS Revision Date (mm/dd/yyyy): 09/14/2023

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SAFETY DATA SHEET

SECTION 1. IDENTIFICATION

Product identifier used on the label

: **Hydrochloric Acid**

Other means of identification : Not available.

Recommended use of the chemical and restrictions on use

: Reagent; Chemical intermediate.
Use pattern: Professional Use Only
Recommended restrictions: None known.

Chemical family : Mixture.

**Name, address, and telephone number
of the supplier:**

Comet Chemical Company Ltd.

3463 Thomas Street
Innisfill, ON, Canada
L9S 3W4

Supplier's Telephone # : (705) 436-5580

24 Hr. Emergency Tel # : GFL Environmental - 1-888-772-2543

**Name, address, and telephone number of
the manufacturer:**

Refer to supplier

SECTION 2. HAZARDS IDENTIFICATION

Classification of the chemical

Clear colourless liquid. Odourless.

This material is classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015).

Hazard classification:

Corrosive to metals - Category 1

Skin corrosion - Category 1

Eye Damage - Category 1

Specific target organ toxicity, single exposure - Category 3 (respiratory)

Acute toxicity, oral - Category 4

Acute Toxicity, inhalation - Category 4 (mist)

Label elements

Hazard pictogram(s)



Signal Word

DANGER!

Hazard statement(s)

May be corrosive to metals.

Causes severe skin burns and eye damage.

Harmful if swallowed.

Harmful if inhaled.

May cause respiratory irritation.

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SAFETY DATA SHEET*Precautionary statement(s)*

Keep only in original packaging.
Wash thoroughly after handling.
Do not eat, drink or smoke when using this product.
Do not breathe mists.
Use only outdoors or in a well-ventilated area.
Wear protective gloves/clothing and eye/face protection.

Immediately call a POISON CENTER or doctor/physician.
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
Call a POISON CENTER or doctor/physician if you feel unwell.
Absorb spillage to prevent material damage.

Store in corrosive resistant container with a resistant inner liner.
Store locked up.
Store in a well-ventilated place. Keep container tightly closed.

Dispose of contents/container in accordance with local/regional/national/international regulations.

Other hazards

Other hazards which do not result in classification:

Ingestion may cause severe irritation to the mouth, throat and stomach. Contact with metals may release small amounts of flammable hydrogen gas. Prolonged skin contact may cause dermatitis (rash), characterized by red, dry, itching skin. May cause respiratory tract irritation. Prolonged or repeated inhalation of fumes or vapours, may cause chronic lung effects, such as bronchitis, and tooth enamel erosion. Chronic skin contact with low concentrations may cause dermatitis.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Pure substance

| <u>Chemical name</u> | <u>Common name and synonyms</u> | <u>CAS #</u> | <u>Concentration (% by weight)</u> |
|----------------------|---------------------------------|--------------|------------------------------------|
| HYDROCHLORIC ACID | Muriatic Acid | 7647-01-0 | 31.50 |

SECTION 4. FIRST-AID MEASURES**Description of first aid measures**

- Ingestion* : Do NOT induce vomiting. Have victim rinse mouth with water, then give one to two glasses of water to drink. Seek immediate medical attention/advice. Never give anything by mouth if victim is unconscious.
- Inhalation* : Immediately remove person to fresh air. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen by qualified medical personnel only. Seek immediate medical attention/advice.
- Skin contact* : Take off all contaminated clothing immediately. Immediately flush skin with gently flowing, running water for at least 20 minutes. Do not rub area of contact. Cover wound with sterile dressing. Seek immediate medical attention/advice. Wash contaminated clothing before reuse. Leather and shoes that have been contaminated with the solution may need to be destroyed.
- Eye contact* : Immediately flush eyes with running water for at least 20 minutes. Protect unharmed eye. Seek immediate medical attention/advice.

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Most important symptoms and effects, both acute and delayed

- : May cause serious eye irritation or damage. Symptoms may include redness, pain, tearing and conjunctivitis. Direct skin contact may cause corrosive skin burns, deep ulcerations and possibly permanent scarring. May cause severe irritation and corrosive damage in the mouth, throat and stomach. Symptoms may include abdominal pain, vomiting, burns, perforations, bleeding and eventually death. May cause severe irritation to the nose, throat and respiratory tract. Symptoms may include coughing, choking and wheezing. Could result in pulmonary edema (fluid accumulation). Symptoms of pulmonary edema (chest pain, shortness of breath) may be delayed. Prolonged or repeated inhalation of fumes or vapours, may cause chronic lung effects, such as bronchitis, and tooth enamel erosion.

Indication of any immediate medical attention and special treatment needed

- : Immediate medical attention is required. Causes burns. Treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable extinguishing media

- : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Water spray may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

Unsuitable extinguishing media

- : Do not use direct stream of water, which can result in a dust cloud and explosion hazard.

Special hazards arising from the substance or mixture / Conditions of flammability

- : Not considered flammable. Burning produces obnoxious and toxic fumes. Contact with metals may release small amounts of flammable hydrogen gas. Reacts violently with a wide variety of organic and inorganic chemicals including alcohol, carbides, chlorates, picrates, nitrates and metals.

Flammability classification (OSHA 29 CFR 1910.106)

- : Non-flammable.

Hazardous combustion products

- : Hydrogen chloride gas Chlorine Hydrogen Carbon oxides Nitrogen oxides

Special protective equipment and precautions for firefighters

Protective equipment for fire-fighters

- : Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Do not enter without wearing specialized protective equipment suitable for the situation. Firefighter's normal protective clothing (Bunker Gear) will not provide adequate protection. A full-body encapsulating chemical protective suit with positive pressure self-contained breathing apparatus (NIOSH approved or equivalent) may be necessary.

Special fire-fighting procedures

- : Move containers from fire area if safe to do so. Water spray may be useful in cooling equipment exposed to heat and flame. Dike for water control. Do not allow run-off from fire fighting to enter drains or water courses.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

- : All persons dealing with clean-up should wear the appropriate protective equipment including self-contained breathing apparatus. Keep all other personnel upwind and away from the spill/release. Restrict access to area until completion of clean-up. Refer to Section 8, EXPOSURE CONTROLS AND PERSONAL PROTECTION, for additional information on acceptable personal protective equipment.

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Environmental precautions : Ensure spilled product does not enter drains, sewers, waterways, or confined spaces. For large spills, dike the area to prevent spreading.

Methods and material for containment and cleaning up

- : Remove all sources of ignition. Ventilate area of release. Stop spill or leak at source if safely possible. Dike for water control. Neutralize with sodium bicarbonate or a mixture of soda ash/slaked lime. Contain and absorb spilled liquid with non-combustible, inert absorbent material (e.g. sand), then place absorbent material into a container for later disposal (see Section 13). Contact the proper local authorities.

Special spill response procedures

- : In Canada: For 24-hour emergency assistance, call: 1-613-996-6666 (CANUTEC).
US CERCLA Reportable quantity (RQ): Hydrochloric acid (5000 lbs / 2270 kg)

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling

- : Use in a well-ventilated area. Wear protective gloves/clothing and eye/face protection. See Section 8 for additional personal protection advice when handling this product. Do not ingest. Avoid breathing vapour or mist. Avoid contact with skin, eyes and clothing. Keep away from extreme heat and flame. Keep away from bases, metals and other incompatibles. Keep container tightly closed when not in use. Keep only in original container. Wash thoroughly after handling.

Conditions for safe storage : Store in a cool, dry, well-ventilated area. Store locked up. Store away from incompatibles and out of direct sunlight. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Inspect periodically for damage or leaks. Store in corrosion-resistant containers. Keep only in original container.

Incompatible materials : Strong oxidizing agents; Metals (e.g. Aluminum, brass, copper) Alkalies Aldehydes Reducing agents.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

| <u>Exposure Limits:</u> | | | |
|--------------------------------|-------------------------|--------------------|--------------------------------------|
| <u>Chemical Name</u> | <u>ACGIH TLV</u> | | <u>OSHA PEL</u> |
| | <u>TWA</u> | <u>STEL</u> | <u>PEL</u> <u>STEL</u> |
| HYDROCHLORIC ACID | N/Av | N/Av | N/Av N/Av |

Exposure controls

Ventilation and engineering measures

- : Use general or local exhaust ventilation to maintain air concentrations below recommended exposure limits.

Respiratory protection

- : If the TLV is exceeded, a NIOSH/MSHA-approved respirator is advised. Confirmation of which type of respirator is most suitable for the intended application should be obtained from respiratory protection suppliers. Respirators should be selected based on the form and concentration of contaminants in air, and in accordance with OSHA (29 CFR 1910.134) or CSA Z94.4-02.

Skin protection

- : Wear chemically protective gloves (impervious), boots, aprons, and gauntlets to prevent prolonged or repeated skin contact. Wear impervious gloves, such as butyl rubber. Unsuitable material: polyvinyl alcohol. Advice should be sought from glove suppliers.

Eye / face protection

- : Chemical splash goggles must be worn when handling this material. A full face shield may also be necessary.

Other protective equipment

- : Other equipment may be required depending on workplace standards. An eyewash station and safety shower should be made available in the immediate working area.

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General hygiene considerations

: Avoid breathing vapour or mist. Avoid contact with skin, eyes and clothing. Do not eat, drink, smoke or use cosmetics while working with this product. Upon completion of work, wash hands before eating, drinking, smoking or use of toilet facilities. Remove and wash contaminated clothing before re-use. Do not take contaminated clothing home.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State : Liquid
Colour : Clear, colorless.
Odour : Pungent odor.
Odour threshold : N/Av
pH : <2.0
Melting Point/Freezing point : N/Av

Initial boiling point and boiling range

: 110°C (230°F)

Flash point : Not applicable.

Flashpoint (Method) : Not applicable.

Evaporation rate (BuAe = 1) : Negligible.

Flammability : Not applicable.

Lower explosion or flammability limit (% by vol.)

: Not applicable.

Upper explosion or flammability limit (% by vol.)

: Not applicable.

Oxidizing properties : None known.

Explosive properties : Not explosive

Vapour pressure : same as water

Relative vapour density : N/Av

Relative density / Specific gravity

: 1.1

Solubility in water : Soluble

Other solubility(ies) : None known.

Partition coefficient: n-octanol/water or Coefficient of water/oil distribution

: N/Av

Auto-ignition temperature : N/Av

Decomposition temperature : Not available.

Viscosity : N/Av

Particle characteristics : N/Av

Volatiles (% by weight) : N/Av

Volatile organic Compounds (VOC's)

: Not available.

Absolute pressure of container

: N/Av

Flame projection length : N/Av

Other physical/chemical comments

: None.

SECTION 10. STABILITY AND REACTIVITY

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- Reactivity** : Reacts violently with a wide variety of organic and inorganic chemicals including alcohol, carbides, chlorates, picrates, nitrates and metals. Contact with metals may release small amounts of flammable hydrogen gas. Corrosive in contact with metals
- Chemical stability** : Stable under the recommended storage and handling conditions prescribed.
- Possibility of hazardous reactions** : Hazardous polymerization does not occur. Contact with metals may release small amounts of flammable hydrogen gas.
- Conditions to avoid** : Avoid heat and open flame. Ensure adequate ventilation, especially in confined areas. Avoid contact with incompatible materials.
- Incompatible materials** : Incompatible materials (see Section 7).
- Hazardous decomposition products** : None known, refer to hazardous combustion products in Section 5.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure:

- Routes of entry inhalation** : YES
- Routes of entry skin & eye** : YES
- Routes of entry Ingestion** : YES
- Routes of exposure skin absorption** : NO

Potential Health Effects:

Signs and symptoms of short-term (acute) exposure

Sign and symptoms Inhalation

- : Harmful if inhaled. Inhalation of high concentrations of fumes or mists may cause severe irritation and corrosive damage to the nose, throat and upper respiratory tract. Symptoms may include coughing, choking and wheezing. Could result in pulmonary edema (fluid accumulation). Symptoms of pulmonary edema (chest pain, shortness of breath) may be delayed.

Sign and symptoms ingestion

- : Harmful if swallowed. May cause severe irritation and corrosive damage in the mouth, throat and stomach. Symptoms may include abdominal pain, vomiting, burns, perforations, bleeding and eventually death.

Sign and symptoms skin

- : Causes severe skin burns and eye damage. Direct skin contact may cause corrosive skin burns, deep ulcerations and possibly permanent scarring.

Sign and symptoms eyes

- : Causes serious eye damage.

Potential Chronic Health Effects

- : Chronic skin contact with low concentrations may cause dermatitis. Prolonged or repeated inhalation of fumes or vapours, may cause chronic lung effects, such as bronchitis, and tooth enamel erosion.

Mutagenicity

- : Not expected to be mutagenic in humans.

Carcinogenicity

- : No components are listed as carcinogens by ACGIH, IARC, OSHA or NTP.

Reproductive effects & Teratogenicity

- : Not expected to cause reproductive effects.

Sensitization to material

- : Not expected to be a skin or respiratory sensitizer.

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Specific target organ effects : Target Organs:: Eyes, skin, respiratory system and digestive system.

Specific target organ toxicity, single exposure -Category 3
May cause respiratory irritation.

Not classified as a specific target organ toxicity - repeated exposure.

Medical conditions aggravated by overexposure

: Pre-existing skin, eye and respiratory disorders.

Synergistic materials

: Not available.

Toxicological data

: The calculated ATE values for this mixture are:

ATE oral = 755.55 mg/kg
ATE inhalation (mists) = 3.33 mg/L

| <u>Chemical name</u> | <u>LC₅₀(4hr)</u> | <u>LD₅₀</u> | |
|----------------------|-----------------------------|------------------------|-------------------------|
| | <u>inh, rat</u> | <u>(Oral, rat)</u> | <u>(Rabbit, dermal)</u> |
| HYDROCHLORIC ACID | 1.05 1.175 mg/L | 238-277 mg/kg | 5010 mg/kg |

Other important toxicological hazards

: None known or reported by the manufacturer.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity : Because of the low pH of this product, it would be expected to produce significant ecotoxicity upon exposure to aquatic organisms and aquatic systems. The product should not be allowed to enter drains or water courses, or be deposited where it can affect ground or surface waters.

Ecotoxicity data:

| <u>Ingredients</u> | <u>CAS #</u> | <u>Toxicity to Fish</u> | | |
|--------------------|--------------|-----------------------------|----------------------|-----------------|
| | | <u>LC50 / 96h</u> | <u>NOEC / 21 day</u> | <u>M Factor</u> |
| HYDROCHLORIC ACID | 7647-01-0 | 4.92 mg/L (Cyprinus carpio) | N/Av | N/Av |

| <u>Ingredients</u> | <u>CAS #</u> | <u>Toxicity to Daphnia</u> | | |
|--------------------|--------------|----------------------------|----------------------|-----------------|
| | | <u>EC50 / 48h</u> | <u>NOEC / 21 day</u> | <u>M Factor</u> |
| HYDROCHLORIC ACID | 7647-01-0 | N/Av | N/Av | N/Av |

| <u>Ingredients</u> | <u>CAS #</u> | <u>Toxicity to Algae</u> | | |
|--------------------|--------------|-----------------------------------|--------------------------|-----------------|
| | | <u>EC50 / 96h or 72h</u> | <u>NOEC / 96h or 72h</u> | <u>M Factor</u> |
| HYDROCHLORIC ACID | 7647-01-0 | 0.492 mg/L/72 hours (Green algae) | N/Av | N/Av |

Persistence and degradability

: Biodegradation is not applicable to inorganic materials.

Bioaccumulation potential

: No data is available on the product itself.

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| <u>Components</u> | <u>Partition coefficient n-octanol/water (log Kow)</u> | <u>Bioconcentration factor (BCF)</u> |
|-----------------------------------|--|--------------------------------------|
| HYDROCHLORIC ACID (CAS 7647-01-0) | N/Ap | N/Ap |

Mobility in soil : No data is available on the product itself.

Other Adverse Environmental effects

: No additional information.





SECTION 13. DISPOSAL CONSIDERATIONS

Handling for Disposal : Handle waste according to recommendations in Section 7. Empty containers retain residue (liquid and/or vapour) and can be dangerous.

Methods of Disposal : Dispose in accordance with all applicable federal, state, provincial and local regulations.

RCRA : It is the responsibility of the waste generator to determine the proper waste identification and disposal method. For disposal of unused or waste material, check with local, state and federal environmental agencies.

SECTION 14. TRANSPORT INFORMATION

| Regulatory Information | UN Number | UN proper shipping name | Transport hazard class(es) | Packing Group | Label |
|---|--|----------------------------|----------------------------|---------------|---|
| 49CFR/DOT | UN1789 | Hydrochloric acid Solution | 8 | II |  |
| 49CFR/DOT Additional information | May be shipped as LIMITED QUANTITY when transported in quantities no larger than 1 Litre, in packages not exceeding 30 kg gross mass. | | | | |
| TDG | UN1789 | HYDROCHLORIC ACID Solution | 8 | II |  |
| TDG Additional information | May be shipped as LIMITED QUANTITY when transported in quantities no larger than 1 Litre, in packages not exceeding 30 kg gross mass. | | | | |
| ICAO/IATA | UN1789 | Hydrochloric acid Solution | 8 | II |  |
| ICAO/IATA Additional information | Refer to ICAO/IATA Packing Instruction | | | | |
| IMDG | UN1789 | HYDROCHLORIC ACID | 8 | II |  |
| IMDG Additional information | May be shipped as LIMITED QUANTITY when transported in quantities no larger than 1 Litre, in packages not exceeding 30 kg gross mass. Packing Code: P001 Packing Special Provisions: - IBC Code: IBC02 IBC Special Provision: B20 IMO Tank Instructions: TP28 UN Tank Instructions: T8 Tank Special Provisions: TP2, TP12 | | | | |

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Special precautions for user : None known.

Environmental hazards : This substance does not meet the criteria for an environmentally hazardous substance according to the IMDG Code. See ECOLOGICAL INFORMATION, Section 12.

SECTION 15 - REGULATORY INFORMATION

US Federal Information:

Components listed below are present on the following U.S. Federal chemical lists:

| <u>Ingredients</u> | CAS # | TSCA Inventory | CERCLA Reportable Quantity(RQ) (40 CFR 117.302): | SARA TITLE III: Sec. 302, Extremely Hazardous Substance, 40 CFR 355: | SARA TITLE III: Sec. 313, 40 CFR 372, Specific Toxic Chemical | de Minimis Concentration |
|--------------------|-----------|----------------|--|--|---|--------------------------|
| HYDROCHLORIC ACID | 7647-01-0 | Yes | 5000 lb/ 2270 kg | 500 lb TPQ (gas only) | Yes | 1% |

SARA TITLE III: Sec. 311 and 312, SDS Requirements, 40 CFR 370 Hazard Classes:

Health hazards: Skin corrosion, Eye Damage, Specific target organ toxicity, single exposure, Acute toxicity(Oral, Inhalation); Physical hazards: Corrosive to metals

US State Right to Know Laws:

The following chemicals are specifically listed by individual States:

| <u>Ingredients</u> | CAS # | California Proposition 65 | | State "Right to Know" Lists | | | | | |
|--------------------|-----------|---------------------------|------------------|-----------------------------|-----|-----|-----|-----|-----|
| | | Listed | Type of Toxicity | CA | MA | MN | NJ | PA | RI |
| HYDROCHLORIC ACID | 7647-01-0 | No | N/Ap | Yes | Yes | Yes | Yes | Yes | Yes |

Canadian Information:

All ingredients are present on the DSL.

International Information:

Components listed below are present on the following International Inventory list:

| <u>Ingredients</u> | CAS # | European EINECS | Australia AICS | Philippines PICCS | Japan ENCS | Korea KECI/KECL | China IECSC | NewZealand IOC |
|--------------------|-----------|-----------------|----------------|-------------------|------------|-----------------|-------------|----------------|
| HYDROCHLORIC ACID | 7647-01-0 | 231-595-7 | Present | Present | (1)-215 | KE-20189 | Present | HSR004090 |

SECTION 16. OTHER INFORMATION

Legend

- : ACGIH: American Conference of Governmental Industrial Hygienists
- CAS: Chemical Abstract Services
- CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act of 1980
- CFR: Code of Federal Regulations
- DOT: Department of Transportation
- EPA: Environmental Protection Agency
- HMIS: Hazardous Materials Identification System
- HSDB: Hazardous Substances Data Bank

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IARC: International Agency for Research on Cancer
Inh: Inhalation
IUCLID: International Uniform Chemical Information Database
MSHA: Mine Safety and Health Administration
N/Ap: Not Applicable
N/Av: Not Available
NFPA: National Fire Protection Association
NIOSH: National Institute of Occupational Safety and Health
NTP: National Toxicology Program
OSHA: Occupational Safety and Health Administration
PEL: Permissible exposure limit
RCRA: Resource Conservation and Recovery Act
RTECS: Registry of Toxic Effects of Chemical Substances
SARA: Superfund Amendments and Reauthorization Act
STEL: Short Term Exposure Limit
TDG: Canadian Transportation of Dangerous Goods Act & Regulations
TLV: Threshold Limit Values
TWA: Time Weighted Average
WHMIS: Workplace Hazardous Materials Identification System

References

1. ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents & Biological Exposure Indices
2. ECHA - European Chemical Agency
3. Canadian Centre for Occupational Health and Safety, CCInfoWeb databases
4. Safety Data Sheets from manufacturer.
5. US EPA Title III List of Lists
6. California Proposition 65 List
7. OECD - The Global Portal to Information on Chemical Substances - eChemPortal

Preparation Date (mm/dd/yyyy)

: 07/28/2016

Reviewed Date SDS (dd/mm/yyyy)

: 14/09/2023

Revision No.

: 2

Revision Information

: Changes made to align with GHS version 7

Other special considerations for handling

: Provide adequate information, instruction and training for operators.

Prepared for:

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product or in any other process.

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