

SAFETY DATA SHEET

This SDS adheres to the standards and regulatory requirements of the United States and may not meet the regulatory requirements in other countries.

1. Identification

Product identifier Hydrochloric Acid

Other means of identification Muriatic Acid, HCl, hydrogen chloride in solution

Recommended use Acidification of petroleum wells, scale removal, ore reduction,

metal cleaning, industrial acidification.

Recommended restrictions None known

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name ERCO Worldwide Address 101 Highway 73 South

Nekoosa, WI 54457

USA

Telephone (715)-887-4000

Website http://www.ercoworldwide.com E-mail productinfo@ercoworldwide.com

Emergency phone number Canada & USA: 1-800-424-9300 (CHEMTREC)

Supplier Refer to Manufacturer

2. Hazard(s) Identification

Physical hazards	Corrosive to metals	Category 1
Health hazards	Acute toxicity, oral	Category 4
	Acute toxicity, inhalation (mist)	Category 4
	Skin corrosion	Category 1
	Serious eye damage	Category 1
	Specific target organ toxicity single	Category 3 resn

Specific target organ toxicity, single Category 3 respiratory tract

exposure irritation

Environmental hazards Not currently regulated by OSHA, refer to Section 12 for additional

information.

OSHA defined hazards This mixture does not meet the classification criteria according to OSHA

HazCom 2012.

Label elements



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Signal word Danger

Hazard statement May be corrosive to metals.

Harmful if swallowed. Harmful if inhaled.

Causes severe skin burns and eye damage.

May cause respiratory irritation.

Precautionary statement

Prevention Keep only in original container. Wash hands and face thoroughly after

handling. Do not eat, drink or smoke when using this product. Do not breathe dust, fume, gas, mist, vapors, spray. Use only outdoors or in a well-ventilated area. Wear protective gloves, protective clothing, eye protection,

face protection.

Response IF SWALLOWED: Call a Poison Center or doctor if you feel unwell. Rinse

mouth. Do NOT induce vomiting.

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

breathing. Immediately call a Poison Center or doctor.

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 or doctor.

IF ON SKIN (OR HAIR): Take off immediately all contaminated clothing. Rinse skin with water or shower. Wash contaminated clothing before re-use.

Absorb spillage to prevent material damage.

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

a well-ventilated place. Keep container tightly closed. Store locked up.

Disposal Dispose of contents/container in accordance with

local/regional/national/international regulations.

Hazard(s) not otherwise

classified (HNOC)

Supplemental information

None known.

Not applicable.

3. Composition/Information on Ingredients

Chemical name	Common name and synonyms	CAS number	Conc. % By Weight
Hydrochloric Acid	Muriatic Acid, Hydrogen Chloride in Solution	7647-01-0	20 - 36.5 w/w%
Dihydrogen Oxide	Water	7732-18-5	Balance

Chemical name of impurities, stabilizing solvents and/or additives: None



4. First-Aid Measures

Inhalation

Remove person to fresh air and keep comfortable for breathing. If victim is unconscious, do not give anything by mouth. Check breathing and pulse. If breathing is difficult, trained personnel should give oxygen. If breathing stops, trained personnel should provide artificial respiration. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. If heart has stopped, give cardiopulmonary resuscitation (CPR) immediately. If breathing becomes rapid and bubbly, place the person in a sitting position, and give oxygen if possible. Immediately call a POISON CENTER or doctor/physician.

Skin Contact

Immediately flush skin with running water for at least 20 minutes. Under running water, remove contaminated clothing, shoes and leather goods. Cover wound with sterile dressing. Do not rub area of contact. Wash contaminated clothing before reuse. Leather and shoes that have been contaminated with the solution may need to be destroyed. Immediately call a POISON CENTER or doctor/physician.

Eye Contact

Immediately flush eyes with plenty of water for at least 20 minutes, holding the eyelid(s) open. Remove contact lenses, if present and easy to do. Continue rinsing. Take care not to rinse contaminated water into the unaffected eye or onto the face. Immediately call a POISON CENTER or doctor/physician.

Ingestion

Rinse mouth. Do NOT induce vomiting. Never give anything by mouth to a victim who is unconscious or is having convulsions. If the victim can swallow, give one cup of water or milk to dilute the material in the stomach. If vomiting occurs naturally, rinse mouth and give water again. Otherwise, rinse residual hydrochloric acid from the mouth with water. Immediately call a POISON CENTER or doctor/physician.

Most important symptoms/effects, acute and delayed

May be fatal if inhaled. Can cause severe respiratory irritation. Symptoms may include coughing, choking and wheezing.

Inhalation could result in pulmonary edema (fluid accumulation). Symptoms of pulmonary edema (chest pain, shortness of breath) may be delayed.

Direct skin contact may cause corrosive skin burns, deep ulcerations and possibly permanent scarring.

Corrosive to the eyes and may cause severe damage including blindness. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

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.



Indication of immediate medical attention and special treatment needed Immediate medical attention is required. Causes chemical burns. May be fatal if inhaled or swallowed. Provide general supportive measures and treat symptomatically. Symptoms may be delayed.

General information

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. Fire-Fighting Measures

Suitable extinguishing media

Use media suitable to the surrounding fire such as water fog or fine spray, alcohol foams, carbon dioxide and dry chemical. Use water with caution. Contact with water will generate considerable heat.

Unsuitable extinguishing media

Use chemical extinguishing agents with caution. Some chemical extinguishing agents may react with this material.

Specific hazards arising from the chemical

Not considered flammable. Vapors are heavier than air and may spread along floors. Contact with most metals will generate flammable hydrogen gas. Contact with water will generate considerable heat. Reacts violently with a wide variety of organic and inorganic chemicals including alcohol, carbides, chlorates, picrates, nitrates and metals. Toxic fumes, gases or vapours may evolve on burning.

Special protective equipment and precautions for firefighters

Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode. A full-body chemical resistant suit should be worn.

Firefighting equipment/instructions

Fight fire with normal precautions from a reasonable distance. Evacuate the area promptly. Move containers from fire area if you can do so without risk. Use water spray to cool unopened containers. Do not allow run-off from firefighting to enter drains or water courses. Dike for water control.

Specific methods

Use standard firefighting procedures and consider the hazards of other involved materials.

Hazardous combustion products

None known. In the event of fire the following can be released: Chlorine. Hydrogen. Hydrogen chloride gas.

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures Immediately evacuate personnel to safe areas. Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate



protective clothing. Ventilate closed spaces before entering them. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

Only persons wearing protective equipment should be allowed in areas of leaks. Ventilate the area. Remove sources of ignition. Stop leak if you can do so without risk. Absorb spillage to prevent material damage. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Use water spray to reduce vapors or divert vapor cloud drift.

Small Spills: Contain and absorb spilled liquid with non-combustible, inert absorbent material (e.g. sand). Dilute acid with water and neutralize with Sodium Carbonate (soda ash) or lime. Use caution when neutralizing. Neutralization may release Carbon dioxide, so use caution.

Large Spills: Prevent entry into waterways, sewer, basements or confined areas. If not recoverable, dilute with water or flush to holding area and neutralize. Remove with vacuum trucks or pump to storage/salvage vessels. Contact the proper local authorities.

Never return spills to original containers for re-use. Contaminated absorbent material may pose the same hazards as the spilled product. For waste disposal, see Section 13 of the SDS.

Environmental precautions

Avoid discharge into drains, water courses or onto the ground. Contact local authorities in case of spillage to drain/aquatic environment.

7. Handling and Storage

Precautions for safe handling

Use only outdoors or in a well-ventilated area. Wear chemically resistant protective equipment during handling. Wear protective gloves/clothing and eye/face protection. Do not breathe mist. Do not taste or swallow. Avoid contact with eyes, skin and clothing. Keep away from heat. Keep away from metals and other incompatibles. When preparing or diluting solution, always add to water, slowly and with stirring. Never add water to the product. Label containers appropriately. Wash thoroughly after handling. When using, do not eat, drink or smoke. Avoid release to the environment.

Conditions for safe storage, including any incompatibilities

Store in a well-ventilated place. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Inspect periodically for damage or leaks. Store away from incompatible materials (see Section 10 of the SDS). Keep away from heat, sparks and open flame.



8. Exposure Controls/Personal Protection

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Туре	Value		
Hydrochloric Acid (CAS 7647-01-0)	Ceiling	7 mg/m ³		
		5 ppm		
US. ACGIH Threshold Limit Values				
Components	Туре	Value		
Hydrochloric Acid (CAS 7647-01-0)	Ceiling	2 ppm		
US. NIOSH: Pocket Guide to Chemical Hazards				
Components	Туре	Value		
Hydrochloric Acid (CAS 7647-01-0)	Ceiling	7 mg/m ³	_	

Biological limit valuesNo biological exposure limits noted for the ingredient(s).

Appropriate engineering controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. All must be corrosion resistant. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station and quick drench facilities in areas of use.

5 ppm

Individual protection measures, such as personal protective equipment

Eye/face protection Chemical goggles and face shield are recommended. Wear a full-

face respirator, if needed.

Skin protection

Hand protection Wear appropriate chemical resistant gloves. Wear as appropriate:

Butyl rubber. Nitrile. Neoprene. Advice should be sought from glove

suppliers.

Other Where contact is likely, wear chemical-resistant gloves, a chemical

suit, rubber boots, and chemical safety goggles plus a face shield.

Respiratory protection In case of insufficient ventilation, wear suitable respiratory

equipment. A NIOSH/MSHA approved air-purifying respirator with the appropriate chemical cartridges or a positive-pressure, air-supplied respirator may be used to reduce exposure. Use a positive-pressure air-supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air-purifying respirators may not provide adequate protection. Respirators should be selected based on the



form and concentration of contaminants in air, and in accordance with OSHA (29 CFR 1910.134). Advice should be sought from respiratory protection specialists.

<50ppm - Supplied air respirator, self-contained breathing apparatus, chemical cartridge respirator, or a powered air purifying respirator both with cartridge(s) to protect against hydrogen chloride.

>50ppm - Full-facepiece supplied air respirator, or full-facepiece self-contained breathing apparatus. Impervious gloves, body suits, boots and/or other protective clothing.

Thermal Hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations Do not breathe mist. Avoid contact with eyes, skin and clothing.

When using, do not eat, drink or smoke. Upon completion of work, wash hands before eating, drinking, smoking or use of toilet facilities. Remove soiled clothing and wash it thoroughly before reuse. Handle in accordance with good industrial hygiene and safety

practice.

9. Physical and Chemical Properties

Appearance Colorless or slightly yellow, fuming liquid

Physical state Liquid

Form Fuming Liquid

Colorless to light yellow

Odor Pungent

Odor threshold 1 - 5 ppm (detectable)

pH 0.1 - 1

Melting point/Freezing point For product range of concentrations: -71°F (-57.22°C) to -

17°F (-27°C)

Initial boiling point and boiling range For product range of concentrations: 226°F (107.78°C) to

127°F (53°C)

Flash point

Evaporation rate

Not Applicable

Not Available

Flammability (solid, gas)

Not Applicable

Upper/lower flammability or explosive limits

Flammability limit – lower (%)

Flammability limit – upper (%)

Explosive limit – lower (%)

Not Applicable

Not Applicable

Not Applicable

Not Applicable

Vapor pressure For product range of concentrations: 0.01 mmHg to 200

mmHg @68°F (20°C)

Vapor pressure temp. 68 °F (20 °C) Vapor density 1.268



Relative density For product range of concentrations: 1.102 g/cm3 to 1.188

g/cm³

Solubility (ies)

Solubility (water) Soluble

Solubility (other) Very soluble in ethanol, methanol, dioxane and

tetrahydrofuran. Insoluble in hydrocarbons (e.g. n-Hexane).

Partition coefficient (n-octanol/water)Not AvailableAuto-ignition temperatureNot ApplicableDecomposition temperatureNot AvailableViscosityNot Available

Other information

Specific gravity 1.18

10. Stability and Reactivity

Reactivity Contact with most metals will generate flammable hydrogen gas. Contact

with water will generate considerable heat. May be corrosive to metals. May be corrosive to: Aluminum. Stainless steel. Carbon steel. Copper. Bronze. Large amounts of heat can be released when mixed with strong

sulfuric acid, alkalis, or with organic solvents.

Chemical stability Material is stable under normal conditions.

Possibility of hazardous

reactions

Reacts violently with a wide variety of organic and inorganic chemicals including alcohol, carbides, chlorates, picrates, nitrates and metals. Aldehydes and epoxides in the presence of hydrochloric acid cause violent polymerization. Alcohol and glycols in the presence of hydrochloric acid load to dehydration reactions.

lead to dehydration reactions.

Conditions to Avoid Avoid high temperatures. Avoid contact with incompatible materials. Do

not use in areas without adequate ventilation.

Incompatible materials Metals. Bases. Strong oxidizing agents. Strong reducing agents. Aldehydes.

Epoxides. Carbides. Picrates. Nitrates. Alcohols. Fluorine. Water, moisture.

Strong acids. Acetylides. Borides.

METALS (e.g. steel, aluminum, magnesium or zinc) - extremely flammable

hydrogen gas is released on reaction with many common metals.

SODIUM - explodes on contact.

BASES (e.g. sodium hydroxide, potassium hydroxide, ammonium hydroxide, amines, 2-aminoethanol or ethyleneimine) - react violently generating heat

and pressure.

FORMALDEHYDE - can react to form the potent human carcinogen,

bis(chloromethyl) ether.

OXIDIZING AGENTS (e.g. hydrogen peroxide, chlorates or chlorites) - may

react generating heat and very toxic and corrosive chlorine gas.



REDUCING AGENTS (e.g. metal hydrides) - reaction may produce extremely flammable hydrogen gas, heat and fire.

PERCHLORIC ACID - decomposes spontaneously and violently.

SULFURIC ACID - dehydrates concentrated hydrochloric acid to release some 250 volumes of hydrogen chloride gas. In a closed tank, sufficient gas may be formed to cause the tank to burst violently.

POTASSIUM PERMANGANATE - a sharp explosion may be produced on adding concentrated hydrochloric acid to potassium permanganate.

ALDEHYDES or EPOXIDES - hydrochloric acid may catalyze violent polymerization, generating heat and pressure.

FLUORINE - incandesces on contact. Aqueous solutions produce flame.

ACETYLIDES (e.g. cesium acetylide or rubidium acetylide), BORIDES (e.g. magnesium boride), CARBIDES (e.g. rubidium carbide), PHOSPHIDE (e.g. uranium phosphide) or SILICIDES (e.g. lithium silicide) - react producing spontaneously flammable gases (e.g. acetylene, borane, phosphine or silane, respectively).

HEXALITHIUM DISILICIDE - incandesces in concentrated acid; flammable silanes (silicon hydrides) are evolved on contact with dilute acid.

OTHER - Mixing 36% hydrochloric acid with acetic anhydride or chlorosulfonic acid or oleum or propiolactone or propylene oxide or vinyl acetate in a closed container caused the temperature and pressure to increase.

Hazardous decomposition products

None known. In the event of fire the following can be released: Chlorine.

Hydrogen. Hydrogen chloride gas.

HCl gas evolution from the solution is accelerated by heating.

11. Toxicological Information

Information on likely routes of exposure

Inhalation Harmful if inhaled. Vapour or mist can cause irritation of the nose, throat

and upper respiratory tract.

Skin contact Causes severe skin burns and eye damage. Not expected to be absorbed

through the skin.

Eye contact Causes serious eye damage. Low concentration of vapour or mist can be

irritating, causing redness.

Ingestion Harmful if swallowed. Causes digestive tract burns with consequent pain,

nausea, vomiting, thirst, diarrhea, circulatory collapse and possible death.

Symptoms related to the physical, chemical and toxicological characteristics

Can cause severe respiratory irritation. Symptoms may include coughing, choking and wheezing. Inhalation could result in pulmonary edema (fluid accumulation). Symptoms of pulmonary edema (chest pain, shortness of breath) may be delayed. 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. Direct skin contact may cause corrosive skin burns, deep ulcerations and possibly permanent scarring. Corrosive to the eyes and may cause severe damage including blindness. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

Information on toxicological effects

Harmful if inhaled. Harmful if swallowed. Acute toxicity

Components **Species Test Results**

Hydrochloric Acid (CAS 7647-01-0)

Acute

Dermal

 LD_{50} Rabbit > 5010 mg/kg

Inhalation

Rat 1.05 - 1.175 mg/l, 4 Hours LC_{50}

(mist)

1405 ppm, 4 Hours (Hydrogen

chloride gas)

Oral

 LD_{50} Rat 238 - 277 mg/kg

> Rabbit 900 mg/kg

Skin corrosion Hazardous by OSHA criteria.

Category 1. Causes severe skin burns.

Serious eye damage Hazardous by OSHA criteria.

Category 1. Causes serious eye damage.

Respiratory or skin sensitization

Respiratory

Not expected to be a respiratory sensitizer.

sensitization

Skin sensitizer This product is not expected to be a skin sensitizer.

Germ cell mutagenicity Not expected to be mutagenic in humans.

Carcinogenicity This product is not considered to be a carcinogen by IARC, ACGIH, NTP,

or OSHA.

Reproductive toxicity This product is not expected to cause reproductive or developmental

effects.

Specific target organ

Hazardous by OSHA criteria.

toxicity - single exposure Category 3. May cause respiratory irritation.



Specific target organ toxicity - repeated

exposure

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

Aspiration toxicity This product is not classified as an aspiration hazard.

Chronic effects Chronic skin contact with low concentrations may cause dermatitis. In

extreme cases, tooth erosion could result.

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. However, Hydrochloric acid dissociates in water and will be neutralized by naturally occurring alkalinity. The acid will permeate soil, dissolving some soil material and will be somewhat neutralized. The ingredient ecotoxicity data appearing below is expected to be primarily

associated with pH.

Components	Species	Test Results
Hydrochloric Acid (CAS	7647-01-0)	
Aquatic		
Acute		

 EC_{50} 0.492 mg/l, 72 hours Algae Green algae (Selenastrum capricornutum) Crustacea EC_{50} Water flea (Daphnia magna) 0.492 mg/l, 48 hours Fish LC_{50} Carp (Cyprinus carpio communis) 4.92 mg/l, 96 hours Chronic

Green algae (Selenastrum capricornutum) 0.097 mg/l, 72 hours Algae NOEC

Persistence and No data is available on the degradability of this product. Biodegradation is not applicable to inorganic substances. degradability

Bioaccumulative No accumulation in living organisms is expected due to high solubility and potential dissociation properties.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion,

photochemical ozone creation potential, endocrine disruption, global

warming potential) are expected from this component.

High water solubility indicates a high mobility in soil.

13. Disposal Considerations

Mobility in soil

Disposal instructions Collect and reclaim or dispose in sealed containers at licensed waste

disposal site. This material and its container must be disposed of as hazardous waste. Do not allow this material to drain into sewers/water

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supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents and containers in accordance with local/regional/national/international regulations. Contaminated materials can be neutralized with soda ash (Na₂CO₃), lime (CaO), or limestone (CaCO₃). The residual sludge can be shoveled into containers for disposal.

Local disposal regulations

Dispose in accordance with all applicable regulations.

Hazardous waste code

The waste code should be assigned in discussion between the user, the

producer and the waste disposal company.

Waste from residues / unused products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

Contaminated packaging

Empty containers should be taken to an approved waste handling site for

recycling or disposal.

Since emptied containers may retain product residue, follow label

warnings even after container is emptied.

14. Transport Information

DOT

UN number UN1789

UN proper shipping name Hydrochloric Acid

Transport hazard class(es)

Class 8 Subsidiary None

risk

Label(s) 8

Packing group ||

Special precautions for user Read safety instructions, SDS and emergency procedures

before handling.

US CERCLA Reportable Quantity (RQ): 5000 lbs / 2270 kg

Special provisions A3, A6, B3, B15, IB2, N41, T8, TP2, TP12

Packaging exceptions 154
Packaging non bulk 202
Packaging bulk 242



IATA

UN number UN1789

UN proper shipping name Hydrochloric Acid

Transport hazard class(es)

Class 8 Subsidiary None

risk

Packing group II Environmental hazards No ERG Code 8L

Special precautions for user Read safety instructions, SDS and emergency procedures

before handling.

Other information

Passenger and cargo

aircraft

Allowed

Cargo aircraft only Allowed

IMDG

UN number UN1789

UN proper shipping name Hydrochloric Acid

Transport hazard class(es)

Class 8 Subsidiary None

risk

Packing group ||

Environmental hazards

Marine No

pollutant

EmS F-A, S-B

Special precautions for user Read safety instructions, SDS and emergency procedures

before handling. Not Available

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code DOT



IATA; IMDG





15. Regulatory Information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA

> Hazard Communication Standard, 29 CFR 1910.1200. All components are on the U.S. EPA TSCA Inventory List.

TSCA Section 12(b)

Export Notification (40 CFR 707, Subpt.

D)

CERCLA Hazardous

Substance List (40

CFR 302.4)

SARA 304

Emergency release

notification **OSHA Specifically**

Regulated

Substances (29 CFR 1910.1001-1050)

Not regulated.

Hydrochloric Acid (CAS 7647-01-0)

Hydrochloric Acid (CAS 7647-01-0)

Listed.

5000 LBS

Not listed.

Hazard categories Immediate Hazard - Yes

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - Yes

SARA 302 Extremely hazardous substance

CAS number **Threshold Threshold** Chemical Reportable Threshold name quantity planning planning planning quantity quantity, quantity, lower value upper value

500 lbs Hydrochloric 5000 7647-01-0

Acid

SARA 311/312 No **Hazardous chemical** SARA 313 (TRI reporting)

Chemical name CAS number % by wt. Hydrochloric Acid 7647-01-0 20-36.5

Other federal regulations

Clean Air Act (CAA)

Section 112 **Hazardous Air** Pollutants (HAPs)

List

Hydrochloric Acid (CAS 7647-01-0)

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Clean Air Act (CAA) Hydrochloric Acid (CAS 7647-01-0)

Section 112(r) **Accidental Release Prevention (40 CFR**

68.130)

Safe Drinking Water

Act (SDWA)

Drug Enforcement Administration

(DEA). List 2,

Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and Chemical Code

Number

Drug Enforcement Administration

(DEA). List 1 & 2 **Exempt Chemical** Mixtures (21 CFR 1310.12(c))

DEA Exempt Chemical Mixtures

Code Number

Not regulated.

Hydrochloric Acid (CAS 7647-01-0)

6545

20 % WV

Hydrochloric Acid (CAS 7647-01-0)

Hydrochloric Acid (CAS 7647-01-0)

Hydrochloric Acid (CAS 7647-01-0)

Hydrochloric Acid (CAS 7647-01-0)

6545

500 lbs

US state regulations

US. Massachusetts

RTK - Substance List

US. New Jersey

Worker and **Community Right-**

to-Know Act

US. Pennsylvania

RTK - Hazardous

Substances

US. California

Proposition 65

RTK

US. Rhode Island Hydrochloric Acid (CAS 7647-01-0)

Hydrochloric Acid (CAS 7647-01-0)

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any

chemicals currently listed as carcinogens or reproductive toxins.



International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial	Yes
	Chemical Substances (EINECS)	
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

^{*}A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s).

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16.Other Information

Issue date 3/30/2022

Revision # 6

Revision Indicator Clarified precautionary statements and address updated.

List of abbreviations 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

DSL: Domestic Substance List EC: European Community

EINECS: European Inventory of Existing Commercial Chemical Substances

EPA: Environmental Protection Agency

EPCRA: Emergency Planning and Community Right-to-Know Act

HSDB® - Hazardous Substances Data Bank

IARC: International Agency for Research on Cancer IATA: International Air Transport Association

IBC: Intermediate Bulk Container



IMDG: International Maritime Dangerous Goods

LC: Lethal Concentration

LD: Lethal Dose

NOEC: No observable effect concentration

NTP: National Toxicology Program

OECD: Organisation for Economic Co operation and Development

OSHA: Occupational Safety and Health Administration

PPE: Personal Protective Equipment

RCRA: Registry of Toxic Effects of Chemical Substances RTECS: Registry of Toxic Effects of Chemical Substances SARA: Superfund Amendments and Reauthorization Act

SDS: Safety Data Sheet

STEL: Short Term Exposure Limit TLV: Threshold Limit Values TWA: Time Weighted Average

References

ACGIH Documentation of the Threshold Limit Values and Biological Exposure Indices (2014) International Agency for Research on Cancer

Monographs (2014)

Canadian Centre for Occupational Health and Safety, CCInfoWeb

Databases, 2014 (Chempendium, RTECs, HSDB, INCHEM)

Material Safety Data Sheet from manufacturer.

OECD - The Global Portal to Information on Chemical Substances -

eChemPortal, 2014.

Disclaimer

Information presented in this SDS is furnished in accordance with OSHA's Hazard Communication Standard (HCS) 2012.

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