

Lowry & Associates, Div. of Chem-Aquascience, Inc.

5-1151 Gorham Street Newmarket, ON, L3Y 8Y1

Canada Telephone: 905-836-0505

Hydrochloric Acid Reagent

R-0709

SDS Preparation Date (mm/dd/yyyy): 01/03/2016

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SECTION 1. IDENTIFICATION

Product identifier used on the label

: Hydrochloric Acid Reagent

Product Code(s) : R-0709

Recommended use of the chemical and restrictions on use

Use as directed by manufacturer for purposes directly related to water testing.

Recommended restrictions: None known.

Chemical family : Mixture.

Name, address, and telephone number

Name, address, and telephone number of

of the supplier:

the manufacturer:
Refer to supplier

Lowry & Associates, Div. of Chem-Aquascience,

Inc.

5-1151 Gorham Street Newmarket, ON, Canada

L3Y 8Y1

Supplier's Telephone # : (905) 836-0505, Hours 09:00 to 16:30

24 Hr. Emergency Tel # : (613) 996-6666 (CANUTEC)

SECTION 2. HAZARDS IDENTIFICATION

Classification of the chemical

Clear colourless liquid. Odorless.

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 Eye damage/irritation: Category 1 Skin corrosion/irritation: Category 1

Specific target organ toxicity, single exposure Category 3

Label elements

Hazard pictogram(s)





Signal Word

DANGER!



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Hazard statement(s)

May be corrosive to metals.
Causes severe skin burns and eye damage.
May cause respiratory irritation.

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Precautionary statement(s)

Keep only in original container.

Wash thoroughly after handling.

Do not breathe mists.

Use only outdoors or in a well-ventilated area.

Wear protective gloves/clothing and eye/face protection.

If swallowed: Rinse mouth. Do NOT induce vomiting. Do NOT induce vomiting.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

Wash contaminated clothing before reuse.

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

Immediately call a POISON CENTER or doctor/physician.

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/physician.

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. 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

Mixture

Chemical name	Common name and synonyms	CAS#	Concentration (% by weight)	
Hydrochloric Acid	Muriatic Acid	7647-01-0	4.00	

The components are not hazardous or are below required disclosure limits.

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.



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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.

Eve contact

Immediately flush eyes with running water for at least 20 minutes. Protect unharmed eye. Seek immediate medical attention/advice.

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.

Unsuitable extinguishing media

: Do not use a solid water stream as it may scatter and spread the fire.

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.

Special fire-fighting procedures

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. 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.



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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.

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

: If a spill/release in excess of the EPA reportable quantity is made into the environment, immediately notify the national response center in the United States (phone: 1-800-424-8802).

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. Do not breathe fumes, mists or vapours. 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

Exposure Limits:					
<u>Chemical Name</u>	ACGIH	TLV	OSHA PEL		
	<u>TWA</u>	STEL	<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.



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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 appropriate chemical resistant gloves. Advise 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.

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

Appearance : Colourless to light yellow liquid.

 Odour
 : Odorless.

 Odour threshold
 : N/Av

 pH
 : 0.5

 Melting/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) : Not available.
Flammability (solid, gas) : Not applicable.

Lower flammable limit (% by vol.)

Not applicable.

Upper flammable limit (% by vol.)

Not applicable.

Oxidizing properties : None known.

Explosive properties : Not explosive

Vapour pressure : 17 mmHg

Vapour density : 1.3

Relative density / Specific gravity

: 1.03

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/Ap

Decomposition temperature: Not available.

Viscosity : N/Av Volatiles (% by weight) : 100%

Volatile organic Compounds (VOC's)

: Not available.



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Absolute pressure of container

: N/Ap

Flame projection length

: N/Ap

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

Reducing agents .

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

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.

be delayed.

Sign and symptoms ingestion

: 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 : 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). Classification: Skin corrosion/irritation: Category 1 Causes severe skin burns and eye damage. Direct skin contact may cause corrosive

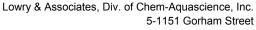
skin burns, deep ulcerations and possibly permanent scarring.

Sign and symptoms eyes : 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). Classification: Eye damage/irritation: Category 1

Causes serious eye damage. Symptoms may include severe pain, tearing, redness,

swelling and blurred vision.



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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.

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

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). Classification:

Specific target organ toxicity, single exposure -Category 3

May cause respiratory irritation.

The substance or mixture is not classified as specific target organ toxicant, 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 = 5509.25 mg/kg

ATE inhalation (mists) = 24.30 mg/kg

	LCso(4hr)	LD50			
Chemical name	inh, rat	(Oral, rat)	(Rabbit, dermal)		
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.

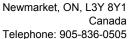
SECTION 12. ECOLOGICAL INFORMATION

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:

la sua dia sta	040 N	Toxicity to Fish				
<u>Ingredients</u>	CAS No	LC50 / 96h	NOEC / 21 day	M Factor		
Hydrochloric Acid	7647-01-0	4.92 mg/L (Cyprinus carpio)	n/av	None.		



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<u>Ingredients</u>	CAS No	То	oxicity to Daphnia		
		EC50 / 48h	NOEC / 21 day	M Factor	
Hydrochloric Acid	7647-01-0	n/av	n/av	N/Av	

<u>Ingredients</u>	CAS No	Toxicity to Algae					
		EC50 / 96h or 72h	NOEC / 96h or 72h	M Factor			
Hydrochloric Acid	7647-01-0	0.492 mg/L/72 (Green algae)	n/av	None.			

Persistence and degradability

: Biodegradation is not applicable to inorganic materials.

Bioaccumulation potential : No data is available on the product itself.

<u>Components</u>	Partition coefficient n-octanol/water (log Kow)	Bioconcentration factor (BCF)
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

If this product, as supplied, becomes a waste in the United States, it may meet the criteria of a hazardous waste as defined under RCRA, Title 40 CFR 261. 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. TRANSPORTATION 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	None.				
TDG	UN1789	HYDROCHLORIC ACID Solution	8	II	
TDG Additional information					



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ICAO/IATA	UN1789	Hydrochloric acid Solution	8	II	\$\frac{1}{2}\$		
ICAO/IATA Additional information	Refer to ICAO/IATA Packing Instruction						
IMDG	UN1789	HYDROCHLORIC ACID	8	II			
IMDG Additional information	exceeding 30 k Packing Code: Packing Specia IBC Code: IBC IBC Special Pro IMO Tank Instru UN Tank Instru	P001 al Provisions: - 202 ovision: B20 uctions: TP28	: than 1 Litre, in pa	ickages not			

Special precautions for user : None known.

Environmental hazards : See ECOLOGICAL INFORMATION, Section 12.

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

: Not applicable.

SECTION 15 - REGULATORY INFORMATION

US Federal Information:

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

1		TSCA CERCL		SARA TITLE III: Sec. 302, Extremely	SARA TITLE III: Sec. 313, 40 CF 372, Specific Toxic Chemical	
<u>Ingredients</u>	CAS # Inventory	Quantity(RQ) (40 CFR 117.302):	Hazardous Substance, 40 CFR 355:	Toxic Chemical	de minimus 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: Acute Health Hazard. Chronic Health Hazard

Under SARA Sections 311 and 312, the EPA has established threshold quantities for the reporting of hazardous chemicals. The current thresholds are 500 pounds for the threshold planning quantity (TPQ), whichever is lower, for extremely hazardous substances and 10,000 pounds for all other hazardous chemicals.

US State Right to Know Laws:

The following chemicals are specifically listed by individual States:

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

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Canadian Environmental Protection Act (CEPA) information: All ingredients listed appear on the Domestic Substances List (DSL).

WHMIS information: Refer to Section 2 for a WHMIS Classification for this product.

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

CA: California

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 IARC: International Agency for Research on Cancer

Inh: Inhalation

IUCLID: International Uniform Chemical Information Database

MA: Massachusetts MN: Minnesota

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

NJ: New Jersey

NTP: National Toxicology Program

OSHA: Occupational Safety and Health Administration

PA: Pennsylvania

PEL: Permissible exposure limit

RCRA: Resource Conservation and Recovery Act

RI: Rhode Island

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 : Canadian Centre for Occupational Health and Safety, CCInfoWeb Databases, 2015

(Chempendium, RTECs, HSDB, INCHEM).

European Chemicals Agency, Classification Legislation, 2015

Material Safety Data Sheet from manufacturer

OECD- The Global Portal to Information on Chemical Substances - eChemPortal,

2015

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Other special considerations for handling

: Provide adequate information, instruction and training for operators.

Prepared for:

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Prepared by:

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