

# MATERIAL SAFETY DATA SHEET

Issuing Date 5/10/2010 Revision date 6/10/2013 Revision Number 0

### 1. PRODUCT AND COMPANY IDENTIFICATION

Product name HYDROCHLORIC ACID 1.0N

Product Code(s) 6130

**Recommended Use** Laboratory chemicals. Industrial (not for food or food contact use).

**Company** LaMotte Company, Inc.

802 Washington Avenue

P.O. Box 329

Chestertown, MD 21620

USA

**Emergency telephone number** 24 Hour Emergency Number (CHEM-TEL):

USA, Canada, Puerto Rico 1-800-255-3924

Outside North American Continent (Call collect) 813-248-0585

## 2. Hazards Identification

DANGER

## **EMERGENCY OVERVIEW**

corrosive

Can cause severe irritation or burns to every area of contact

HARMFUL IF SWALLOWED

appearance Clear, colorless Physical state liquid Odor pungent

OSHA Regulatory Status This product is an article which contains a chemical substance. Safety information is given

for exposure to the article as sold, but considers exposure to the chemical if user has direct

eye and skin contact with the chemical.

Potential health effects

Principle Routes of Exposure Skin Contact, Ingestion.

**Acute toxicity** 

EYES May cause burns. May cause irreversible damage to eyes.

skin Contact causes severe skin irritation and possible burns. Can cause redness, pain, and

severe skin burns. HARMFUL IF ABSORBED THROUGH SKIN.

inhalation Irritating to mucous membranes. Inhalation of vapors can cause coughing, choking,

inflammation of the nose, throat, and upper respiratory tract; in severe cases, pulmonary

edema, circulatory failure, and death.

HARMELL JE SWALLOWED, Can burn mouth, throat, store

Ingestion HARMFUL IF SWALLOWED. Can burn mouth, throat, stomach, and GI tract. Ingestion may

cause gastrointestinal irritation, nausea, vomiting, and diarrhea.

**Chronic effects** Chronic exposure to corrosive mists or vapors may cause erosion of the teeth.

**Aggravated Medical Conditions** Hypersensitivity may occur in those with preexisting skin disorders. Respiratory disorders.

Preexisting eye disorders.

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HYDROCHLORIC ACID 1.0N Product Code(s) 6130

# 3. Composition/information on Ingredients

Formula HCl in water

Chemical name	CAS-No	Weight %
Hydrochloric acid	7647-01-0	<4
Water	7732-18-5	to 100%

### 4. First aid measures

**General advice** Do not get in eyes, on skin, or on clothing.

Eye contact Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids.

Consult a physician.

**Skin contact**Wash off immediately with soap and plenty of water for at least 15 minutes while removing

all contaminated clothing and shoes. Consult a physician.

**inhalation** Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial

respiration and contact emergency personnel. Call a physician immediately.

Ingestion Do NOT induce vomiting. Drink plenty of water. Clean mouth with water. Consult a

physician. Never give anything by mouth to an unconscious person.

mouth-to-mouth method if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper

respiratory medical device.

## 5. Fire-fighting measures

flash point Not Applicable

Suitable extinguishing media Water spray. Water.

NFPA Health hazard 2 flammability 0 stability 0 Physical and Chemical

Hazards -

 ${\color{red} \underline{\textbf{HMIS}}} \qquad \qquad {\color{red} \textbf{Health hazard}} \ \ 0 \qquad \qquad {\color{red} \textbf{flammability}} \ \ 0 \qquad \qquad {\color{red} \textbf{stability}} \ \ 0$ 

## 6. Accidental release measures

Personal precautions Ensure adequate ventilation. Use personal protective equipment. Refer to Section 8. Avoid

contact with skin, eyes, and inhalation of vapors.

Methods for cleaning up

Neutralize spill with alkaline material (sodium bicarbonate), being careful to prevent
splattering, then containerize slurry and hold for later disposal. If local regulations permit

splattering, then containerize slurry and hold for later disposal. If local regulations permit, dilute slurry with water and rinse to drain with excess water. Keep in suitable and closed

containers for disposal. After cleaning, flush away traces with water.

# 7. Handling and Storage

Handling Handle in accordance with good industrial hygiene and safety practice. Prevent contact with

skin, eyes, and clothing. Do not ingest. Do not eat, drink, or smoke when using this product.

Storage

Keep containers tightly closed in a dry, cool, and well-ventilated place. Store at room temperature. Keep away from direct sunlight. Keep away from heat and incompatibles. Keep out of the reach of children.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Hydrochloric acid	None known	Ceiling 5 ppm (7mg/m³)	IDLH: 50 ppm
7647-01-0			Ceiling: 7 mg/m <sup>3</sup>
			Ceiling: 5 ppm
Water	None known	None known	None known
7732-18-5			

Personal protective equipment

Eye/face Protection
Skin and body protection
Respiratory protection

Safety glasses with side-shields. Wear protective gloves/clothing.

When workers are facing concentrations above the exposure limit they must use

appropriate certified respirators.

**Hygiene Measures** Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or

smoke when using this product. Wash hands before breaks and immediately after handling

the product.

9. Physical and Chemical Properties

appearanceClear, colorlessOdorpungentPhysical stateliquidpH0.1

flash point Not Applicable Boiling Point/Range 100 °C / 212 °F

Specific gravity ~1 vapor pressure Essentially the same as water

vapor density Essentially the same as water

10. Stability and Reactivity

**stability** Stable under normal conditions of use and storage.

**Incompatible Products** Strong bases. Metals. Cyanides. Sulfides. Formaldehyde.

Conditions to avoid Excessive heat. Incompatible products. Direct sunlight.

Hazardous decomposition products Chlorine gas. Hydrogen gas. Hydrogen chloride.

**Hazardous polymerization** Hazardous polymerization does not occur.

# 11. Toxicological Information

## **Acute toxicity**

Chemical name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Hydrochloric acid	700 mg/kg (Rat)	5010 mg/kg (Rabbit)	3124 ppm (Rat) 1 h
Water	90 mL/kg(Rat)	None known	None known

**Chronic toxicity** 

**Chronic toxicity** Chronic exposure to corrosive mists or vapors may cause erosion of the teeth.

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Chemical name	ACGIH	IARC	NTP	OSHA
Hydrochloric acid	None known	None known	None known	None known
Water	None known	None known	None known	None known

Chemical name	EU - Endocrine Disrupters Candidate List	EU - Endocrine Disruptors - Evaluated Substances	Japan - Endocrine Disruptor Information
Hydrochloric acid	None known	None known	None known
Water	None known	None known	None known

# 12. Ecological Information

### ecotoxicity

Concentrated Hydrochloric acid may be toxic to aquatic life.

Chemical name	Toxicity to Algae		Toxicity to Fish	Microtox	Daphnia Magna (Water Flea)
Hydrochloric acid	None known		LC50= 282 mg/L Gambusia affinis 96 h	None known	None known
Water	None	known	None known	None known	None known
Chemical name	е	Log Pow			
Hydrochloric aci	d	None known			
Water			None known		

# 13. Disposal Considerations

#### **Waste Disposal Method**

Dispose according to federal, state, and local regulations. If permitted, neutralize reagent with sodium bicarbonate/sodium carbonate, add slurry to large volume of water to dilute, rinse to drain with excess water.

Chemical name	RCRA - Halogenated Organic Compounds	RCRA - P Series Wastes	RCRA - F Series Wastes	RCRA - K Series Wastes
Hydrochloric acid - 7647-01-0	None known	None known	None known	None known
Water - 7732-18-5	None known	None known	None known	None known

# 14. Transport Information

DOT

Proper shipping name HYDROCHLORIC ACID SOLUTION

Hazard Class8UN-No1789Packing groupIIIReportable Quantity (RQ)5000

IATA

<u>U</u>N-No 1789

Proper shipping name HYDROCHLORIC ACID SOLUTION

Hazard Class 8
Packing group III

IMDG/IMO

Proper shipping name HYDROCHLORIC ACID SOLUTION

Hazard Class 8 UN-No 1789 Packing group III

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# 15. Regulatory information

## **International Inventories**

Component	TSCA	DSL	EINECS/ELIN CS	ENCS	IECSC	KECL	PICCS	AICS
Hydrochloric acid 7647-01-0 ( <4 )	Т	Х	Х	Х	Х	KE-20189 X	Х	Х
Water 7732-18-5 ( to 100% )	Present	Х	Х	ENCS	Х	KE-35400	Х	Х

# U.S. Federal Regulations

### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical name	CAS-No	Weight %	SARA 313 - Threshold Values %
Hydrochloric acid	7647-01-0	<4	1.0
Water	7732-18-5	to 100%	None known

# SARA 311/312 Hazard Categories

Acute health hazard yes
Chronic Health Hazard yes
Fire hazard No
Sudden release of pressure hazard No
Reactive Hazard No

### **Clean Water Act**

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

Component	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Hydrochloric acid 7647-01-0 ( <4 )	5000 lb	None known	None known	Х
Water 7732-18-5 ( to 100% )	None known	None known	None known	None known

Chemical name	CAS-No	Weight %	HAPS data	VOC Chemicals	Class 1 Ozone Depletors	Class 2 Ozone Depletors
Hydrochloric acid	7647-01-0	<4	Present	None known	None known	None known
Water	7732-18-5	to 100%	None known	None known	None known	None known

## CERCLA

Chemical name	Hazardous Substances RQs	Extremely Hazardous Substances RQs
Hydrochloric acid	5000 lb	5000 lb
Water	None known	None known

## **U.S. State Regulations**

### **California Proposition 65**

This product does not contain any Proposition 65 chemicals

Chemical name	CAS-No	California Prop. 65
Hydrochloric acid	7647-01-0	None known
Water	7732-18-5	None known

Chemical name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Hydrochloric acid	X	X	Х	X	X
Water	None known	None known	None known	None known	None known

# **International Regulations**

#### **Mexico - Grade**

#### No information available

Chemical name	Carcinogen Status	Exposure Limits
Hydrochloric acid	None known	None known
Water	None known	None known

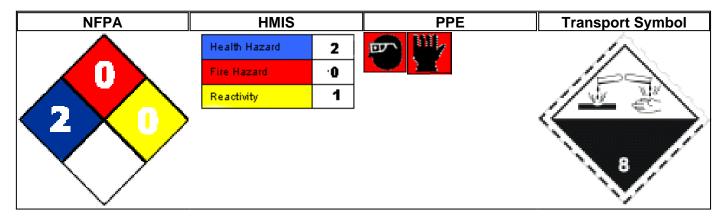
### CANADA

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR

Component	WHMIS Hazard Class
Hydrochloric acid	1 %
7647-01-0 ( <4 )	A D1A E
	D1B E
	D1A E
Water	Uncontrolled product according to WHMIS classification criteria
7732-18-5 ( to 100% )	



## 16. Other information



Prepared by Regulatory Affairs Department

Issuing Date 5/10/2010
Revision date 5/10/2013

Revision note MSDS was reviewed per Canada requires MSDS to be dated within 3

years of the request.

#### **Disclaimer**

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

**End of MSDS** 

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