

Issuing Date 5/10/2010	Revision Number 0			
1. P	RODUCT 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 solu				
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			
Inhalation	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.			
Ingestion	Harmful if swallowed. Can burn mouth, throat, and stomach. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.			
Chronic Effects	Chronic exposure to corrosive vapors may cause erosion of the teeth.			
Aggravated Medical Conditions	Skin disorders. Respiratory disorders. Preexisting eye disorders.			
3. CON	/POSITION/INFORMATION ON INGREDIENTS			
Formula	HCl in water			

Formula

HCI 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 ge	et 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		immediately with soap a ninated clothing and sho		t least 15 minutes while removing	
Inhalation	Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Call a physician immediately.				
Ingestion		induce vomiting. Drink pl . Never give anything by		outh with water. Consult a ous person.	
Protection of First-aiders	Use personal protective equipment. See Section 8 for more detail. Do not use 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. F	IRE-FIGHTING M	IEASURES		
Flash Point	Not applicable				
Suitable Extinguishing Media	Water spray. Water.				
Explosion Data NFPA Health H	azard 2	Flammability 0	Stability 0	Physical and Chemical Hazards -	
	6. ACCI	DENTAL RELEAS	SE MEASURES		
Personal Precautions		dequate ventilation. Use rith skin, eyes and inhala		uipment. Refer to Section 8. Avoid	
Methods for Cleaning Up Cover spill with sodium bicarbonate to neutralize. Containerize slurry and hold for disposal. If permitted, 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. H	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	temperatu		ect sunlight. Keep away	tilated place. Store at room from heat and incompatibles.	

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Hydrochloric acid 7647-01-0	None Established	None Established	IDLH: 50 ppm Ceiling: 7 mg/m ³ Ceiling: 5 ppm

Water	None Established	None Established	None Established		
7732-18-5	None Established		None Established		
	-	L			
Personal Protective Equipme					
Eye/Face Protection	Safety glasses with sid				
Skin and Body Protect					
Respiratory Protectior	•				
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 PROPERTI	ES		
Appearance	Clear, colorless solution	Odor	Pungent		
Physical State	Liquid	рН	0.1		
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 wate	r			
	10. STABILITY	AND REACTIVITY			
Stability	Stable under normal c	onditions.			
Incompatible Products	Strong bases. Metals. Cyanides. Sulfides. Formaldehyde.				
Conditions to Avoid	Excessive heat. Incompatible products. Direct sunlight.				
Hazardous Decomposition P	roducts Chlorine gas. Hydroge	n gas. Hydrogen chloride.			
Hazardous Polymerization	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 Established	None Established

Chronic Toxicity

Chronic Toxicity

Chronic exposure to corrosive vapors may cause erosion of the teeth.

Chemical Name	ACGIH	IARC	NTP	OSHA
Hydrochloric acid	None Established	None Established	None Established	None Established
Water	None Established	None Established	None Established	None Established

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

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 Established	LC50= 282 mg/L Gambusia affinis 96 h	None Established	None Established
Water	None Established	None Established	None Established	None Established

Chemical Name	Log Pow
Hydrochloric acid	None Established
Water	None Established

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		
Hydrochloric acid - 7647-01-		
0		
Water - 7732-18-5		

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

Chemical Name	California Hazardous Waste Status
Hydrochloric acid	Toxic; Corrosive; Reactive

14. TRANSPORT INFORMATION

DOT	Proper Shipping Name Hazard Class UN-No Packing Group Reportable Quantity (RQ)	HYDROCHLORIC ACID SOLUTION 8 1789 III 5000
<u>IATA</u>	UN-No Proper Shipping Name Hazard Class Packing Group	1789 HYDROCHLORIC ACID SOLUTION 8 III
<u>IMDG</u>	<u>G/IMO</u> Proper Shipping Name Hazard Class UN-No Packing Group	HYDROCHLORIC ACID SOLUTION 8 1789 III

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	Present	Х	Х	ENCS	Х	KE-35400	Х	Х
7732-18-5 (to 100%)								

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 Established

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 Established	None Established	Х
Water 7732-18-5 (to 100%)	None Established	None Established	None Established	None Established

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 Established	None Established	None Established
Water	7732-18-5	to 100%	None Established	None Established	None Established	None Established

CERCLA

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs
Hydrochloric acid	5000 lb	5000 lb
Water	None Established	None Established

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 Established
Water	7732-18-5	None Established

Chemical N	ame	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Hydrochloric	acid	Х	Х	Х	Х	Х

Water None Established	None Established	None Established	None Established	None Established
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International Regulations

Mexico - Grade

No information available.

Chemical Name	Carcinogen Status	Exposure Limits
Hydrochloric acid	None Established	None Established
Water	None Established	None Established

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.

WHMIS Hazard Class

E Corrosive material



16. OTHER INFORMATION NFPA HMIS PPE Transport Symbol Image: space state state

Issuing Date

Revision Date

Revision Note Initial Release.

5/10/2010

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