

Issuing Date 11/1/2011 Revision Number 0		
1. F	PRODUCT AND COMPANY IDENTIFICATION	
Product Name	HYDROCHLORIC ACID, 0.2N	
Product Code(s)	2818	
Recommended Use	Test kit reagent. Industrial (not for food or food contact use). Laboratory chemicals.	
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	
CAUTION!	Emergency Overview Corrosive Irritating to eyes, respiratory system and skin May cause burns to eyes, skin and mucous membranes Harmful if swallowed Physical State Liquid Odor Odor	
Potential Health Effects Principle Routes of Exposure	Eye contact, Skin contact, and, Ingestion.	
Acute Toxicity Eyes Skin Inhalation	Liquid may cause severe irritation and possible eye damage. Contact causes severe skin irritation and possible burns. Harmful if absorbed through s Irritating to mucous membranes. Inhalation of corrosive mist may cause coughing, chol	

Ing	estion	

Chronic Effects Aggravated Medical Conditions

Hypersensitivity may occur in those with preexisting skin disorders. Respiratory disorders. Preexisting eye disorders.

headache, dizziness, and weakness for several hours. Pulmonary edema may occur with tightness in the chest, shortness of breath, bluish skin, decreased blood pressure, and

Harmful if swallowed. Can burn mouth, throat, stomach, and GI tract. Ingestion may cause

3. COMPOSITION/INFORMATION ON INGREDIENTS

gastrointestinal irritation, nausea, vomiting and diarrhea.

HCI in water

increased heart rate.

Chemical Name	CAS-No	Weight %
Hydrochloric acid	7647-01-0	<0.9
Water	7732-18-5	to 100%

4. FIRST AID MEASURES						
General Advice	Do not g	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. Wash skin with soap and water. Consult a physician.				
Inhalation		Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration and contact emergency personnel.				
Ingestion		DO NOT INDUCE VOMITING. Never give anything by mouth to an unconscious person. Drink plenty of water. Clean mouth with water. Consult a physician.				
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	FIRE-FIGHTING M	EASURES			
Flammable Properties Not a fire hazard. Flash Point Not applicable						
Suitable Extinguishing	Media	Water s	pray, dry chemical, car	bon dioxide (CO_2), or foam.		
Explosion Data NFPA	Health Hazard 1	Flammability 0	Stability 0	Physical and Chemical Hazards -		
HMIS	Health Hazard 1	Flammability 0	Stability 0			
	6. ACCI	DENTAL RELEAS	E MEASURES			
Personal Precautions	onal Precautions Refer to Section 8. Use personal protective equipment. Avoid contact with skin, eyes ar inhalation of vapors.			Avoid contact with skin, eyes and		
Methods for Containme	a chemic	Absorb/Cover spill with sodium bicarbonate or sodium carbonate to neutralize, then place in a chemical waste container for later disposal. Dispose according to local regulations, if permitted dissolve in water and rinse to drain.				
Methods for Cleaning U	p After clea	After cleaning, flush away traces with water.				
	7.	HANDLING AND S	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

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Keep containers tightly closed in a dry, cool, and well-ventilated place. Store away from strong bases or metals. Keep out of the reach of children.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

Chemical Name ACGIH TLV OSHA PEL NIOSH IDLH

Hydrochloric acid 7647-01-0	None Known	Ceiling 5 ppm (7mg/m³)	IDLH: 50 ppm Ceiling: 7 mg/m³ Ceiling: 5 ppm
Water 7732-18-5	None Known	None Known	None Known

NIOSH IDLH: Immediately Dangerous to Life or Health

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Engineering Measures	Showers Eyewash stations Ventilation system	S.			
Personal Protective Equipme Eye/Face Protection Skin and Body Protection Respiratory Protection	on Safety glasses with Wear protective glo When workers are appropriate certifie	Safety glasses with side-shields. If splashes are likely to occur, wear:. Face-shield. Wear protective gloves/clothing. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.			
Hygiene Measures	Handle in accordal smoke when using the product.	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 AN	D CHEMICAL PROPER	TIES		
Appearance Physical State Flash Point	Clear, colorless Liquid Not applicable	Odor pH Boiling Point/Range	Odorless 1 100° - 103°C (212° - 217.4°F)		
Vapor Pressure	No data available	Vapor Density	No data available		
10. STABILITY AND REACTIVITY					
Stability	Stable under norm	al conditions of use and storage.			
Incompatible Products	Strong bases. Metals. Strong oxidizing agents.				
Conditions to Avoid	Excessive heat. Incompatible products.				
Hazardous Decomposition Pr	Hazardous Decomposition Products Hazardous decomposition products formed under fire conditions Hydrogen chloride gas.				
Hazardous Polymerization	Hazardous polyme	rization 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

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

Endocrine Disruptor Information

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	Log Pow
Hydrochloric acid	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

Packing Group

14. TRANSPORT INFORMATION

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

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 (<0.9)	Т	Х	Х	Х	Х	KE-20189 X	х	Х
Water 7732-18-5 (to 100%)	Present	Х	X	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	<0.9	1.0
Water	7732-18-5	to 100%	None Known

SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	No
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 (<0.9)	5000 lb	None Known	None Known	Х
Water 7732-18-5 (to 100%)	None Known	None Known	None Known	None Known

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product contains the following HAPs: .

Chemical Name	CAS-No	Weight %	HAPS data	VOC Chemicals	Class 1 Ozone Depletors	Class 2 Ozone Depletors
Hydrochloric acid	7647-01-0	<0.9	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

U.S. State Right-to-Know Regulations

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Hydrochloric acid	Х	Х	Х	Х	Х
Water	None Known	None Known	None Known	None Known	None Known

International Regulations

Mexico - Grade

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(<0.9)	A D1A E
	D1B E
	D1A E
Water 7732-18-5 (to 100%)	Uncontrolled product according to WHMIS classification criteria

16. OTHER INFORMATION

NFPA	HMIS		PPE	Transport Symbol
	Health Hazard	1		
	Fire Hazard	·0		
	Reactivity	0		
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Regulatory Affairs Department

Issuing Date

11/1/2011

Revision Date

Revision Note Initial Release

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