

Issuing Date 5/28/2010	Revision Number 0
	RODUCT AND COMPANY IDENTIFICATION
Product Name	Silica Reagent 1
Product Code(s)	4571
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
	May be fatal if inhaled, or swallowed
Appearance Clear, colorless solu	ution 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	Corrosive to the eyes and may cause severe damage including blindness.
Skin	Contact causes severe skin irritation and possible burns. Can cause redness, pain, and
Inhalation	severe skin burns . Harmful if absorbed through skin. 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	MPOSITION/INFORMATION ON INGREDIENTS

### Formula

HCI in water

Hydrochloric ac	cid	7647-01-0	10
Water		7732-18-5	to 100%
	4. F	IRST AID MEASURES	
General Advice	Do not get in	eyes, on skin, or on clothing. Do not b	preathe dust/fume/gas/mist/vapors/spray.
Eye Contact		Immediately flush eyes with gentle stream of water for at least 15 minutes, occasionally lifting upper and lower eyelids. Call a physician immediately.	
Skin Contact	all contamina	Wash off immediately with soap and plenty of water for at least 15 minutes while removing all contaminated clothing and shoes. Excess acid on skin can be neutralized with a 2% solution of sodium bicarbonate in water Call a physician immediately.	
Inhalation		Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Call a physician immediately.	
Ingestion		Do NOT induce vomiting. Drink plenty of water. Clean mouth with water. Call a physician immediately. Never give anything by mouth to an unconscious person.	
Protection of First-aiders	mouth metho	d if victim ingested or inhaled the sub	for more detail. Do not use mouth-to- stance; induce artificial respiration with valve or other proper respiratory medical

# 5. FIRE-FIGHTING MEASURES

Flammable Properties		Not flan	nmable.	
Flash Point		Not app	licable	
Suitable Extinguishing M	ledia	Dry che	mical, CO <sub>2</sub> , water spray	or alcohol-resistant foam.
Explosion Data Specific Hazards Arising Contact with metals may e		gen gas.		
NFPA	Health Hazard 3	Flammability 0	Stability 0	Physical and Chemical Hazards -
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.		ipment. Refer to Section 8. Avoid
Methods for Cleaning Up	slurry, and		If local regulations perm	neutralize, then containerize hit, dilute slurry with water and ay traces with water.
	7. H	IANDLING AND S	STORAGE	
Handling				fety practice. Prevent contact with r smoke when using this product.
Storage	temperatu	5,	<b>2</b> /	ilated 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 <sup>3</sup> Ceiling: 5 ppm	
Water 7732-18-5	None Established	None Established	None Established	
Personal Protective Equipme	ent			
Eye/Face Protection	Safety glasses with side-	-shields.		
Skin and Body Protect				
Respiratory Protection	When workers are facing appropriate certified resp	concentrations above the exposion of the expos	sure limit they must use	
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 CI	HEMICAL PROPERTIE	S	
Appearance	Clear, colorless solution	Odor	Pungent	
Physical State	Liquid	рН	<1	
Flash Point	Not applicable	Autoignition Temperature	Not applicable	
Boiling Point/Range	~100 °C / 212 °F			
		Flammability Limits in Air	Not applicable	
Specific Gravity Vapor Density	1 (water = 1) Essentially the same as water	Vapor Pressure	Essentially the same as water	
	10. STABILITY	AND REACTIVITY		
Stability	Stable under normal con	ditions.		
Incompatible Products	Strong bases. Metals. C	yanides. Sulfides. Formaldehyde		
Conditions to Avoid	onditions to Avoid Excessive heat. Incompatible products. Direct sunlight.			
Hazardous Decomposition P	roducts Chlorine gas. Hydrogen	gas. Hydrogen chloride.		
Hazardous Reactions		nposition produces toxic chlorine produce flammable hydrogen ga	gas and flammable hydrogen gas. as.	
Hazardous Polymerization	Hazardous polymerization does not occur.			
	11. TOXICOLOGI	CAL 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.

Carcinogenicity

Hydrochloric acid is classified by IARC as Group 3 - not classifiable as to its carcinogenicity to humans.

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- 0	None Established	None Established	None Established	None Established
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	HYDROCHLORIC ACID SOLUTION
	Hazard Class	8
	UN-No	1789
	Packing Group	II
	Reportable Quantity (RQ)	5000

### <u>IATA</u>

UN-No	1789
Proper Shipping Name	HYDROCHLORIC ACID SOLUTION
Hazard Class	8
Packing Group	II
IMDG/IMO	
Proper Shipping Name	HYDROCHLORIC ACID SOLUTION
Hazard Class	8
UN-No	1789
Packing Group	II

# **15. REGULATORY INFORMATION**

# International Inventories

Component	TSCA	DSL	EINECS/ELIN CS	ENCS	IECSC	KECL	PICCS	AICS
Hydrochloric acid 7647-01-0 (10)	Т	Х	X	Х	Х	KE-20189 X	Х	Х
Water	Present	Х	X	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	10	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 (10)	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	10	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 Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Hydrochloric acid	Х	Х	Х	Х	Х
Water	None Established				

#### 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

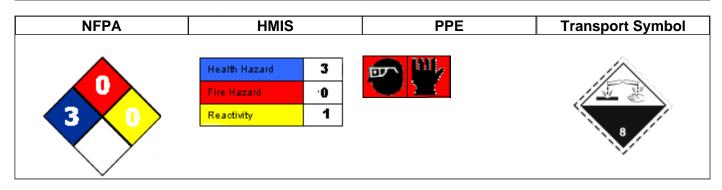
This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

### WHMIS Hazard Class

E Corrosive material D1A Very toxic materials



# 16. OTHER INFORMATION



#### Prepared By

**Regulatory Affairs Department** 

Silica Reagent 1

Product Code(s) 4571

**Issuing Date** 

5/28/2010

**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.

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