

Issuing Date 1/11/12 Revision Number 0					
1.	1. PRODUCT AND COMPANY IDENTIFICATION				
Product Name	SODIUM HYDROXIDE, 1.0 N				
Product Code(s)	4004				
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 Number24 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 Harmful if swallowed May cause burns to eyes, skin and mucous membranes Irritating to eyes, respiratory system, and skin				
Appearance Clear, colorless	Physical State Liquid Odor Odorless				
OSHA Regulatory Status	This material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200). Safety information is given for exposure to the reagent as sold and considers exposure to the chemical if user has direct eye and skin contact.				
Potential Health Effects Principle Routes of Exposure	Skin contact, Ingestion, Inhalation.				

Acute Toxicity	
Eyes	Causes irritation, redness, and pain. May cause burns.
Skin	Contact causes severe skin irritation and possible burns.
Inhalation	Irritating to mucous membranes. Inhalation of corrosive mist may cause coughing, choking, 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 increased heart rate.
Ingestion	Harmful if swallowed. Can burn mouth, throat, stomach, and GI tract. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Chronic Effects

Repeated exposure may cause damage to the tissues of the mucous membranes, respiratory tract, eyes, and skin

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

3. COMPOSITION/INFORMATION ON INGREDIENTS

Formula

NaOH in water

Chemical Name	CAS-No	Weight %
Sodium hydroxide	1310-73-2	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 immediately with plenty of water, also under the eyelids, for at least 15 minutes. Call a physician immediately.		
Skin Contact	Wash off immediately with soap and plenty of water for at least 15 minutes while removing all contaminated clothing and shoes. Call a physician immediately.		
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. Never give anything by mouth to an unconscious person. Call a physician immediately.		
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. FIRE-FIGHTING MEASURES

Flammable PropertiesNot a fire hazard.Flash PointNot applicable				
Suitable Extinguishing Explosion Data				on dioxide (CO_2) , or foam.
NFPA	Health Hazard 3	Flammability 0	Stability 0	Physical and Chemical Hazards -
HMIS	Health Hazard 3	Flammability 0	Stability 2	

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Refer to Section 8. Use personal protective equipment. Avoid contact with skin, eyes and inhalation of vapors.
Methods for Cleaning Up	Neutralize spills with acid such as acetic, hydrochloric or sulfuric, absorb with vermiculite or other inert substance, and package in a suitable container for disposal. 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. Separate from acids. Keep away from heat and incompatibles. Keep from freezing. Keep out of the reach of children.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Sodium hydroxide	None Known	TWA: 2 mg/m ³	IDLH: 10 mg/m ³
1310-73-2 Water 7732-18-5	None Known	None Known	Ceiling: 2 mg/m ³ None Known
Engineering Measures	Showers Eyewash stations Ventilation systems.		
Personal Protective Equipme Eye/Face Protection Skin and Body Protecti Respiratory Protection	 Safety glasses with sid Wear protective gloves When workers are facir appropriate certified res 	/clothing. ng concentrations above the ex spirators.	
Hygiene Measures			d safety practice. Do not eat, drink or preaks and immediately after handling
	9. PHYSICAL AND C	HEMICAL PROPERT	IES
Appearance	Clear, colorless	Odor	Odorless
Physical State Flash Point	Liquid Not applicable	pH Boiling Point/Range	14 102°C/216°F (5% solution sodium hydroxide)
Specific Gravity Vapor Density	1.0428 No information available	Vapor Pressure	No information available
	10. STABILITY	AND REACTIVITY	
Stability	Stable under normal co	onditions of use and storage.	
Incompatible Products	Acids. Contact with me	etals (aluminum, zinc, tin) may	release hydrogen gas.
Conditions to Avoid	Excessive heat. Incom	patible products.	
Hazardous Decomposition Pr	oducts None under normal use	2.	
Hazardous Polymerization	Hazardous polymerizat	ion does not occur.	

Acute Toxicity

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Sodium hydroxide	None Known	1350 mg/kg (Rabbit)	None Known

1				
	Water	90 mL/kg (Rat)	None Known	None Known

Chronic Toxicity

Chronic Toxicity

Repeated exposure may cause damage to the tissues of the mucous membranes, respiratory tract, eyes, and skin.

Chemical Name	ACGIH	IARC	NTP	OSHA
Sodium hydroxide	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
Sodium hydroxide	None Known	None Known	None Known
Water	None Known	None Known	None Known

12. ECOLOGICAL INFORMATION

Ecotoxicity

Chemical Name	Toxicity to Algae	Toxicity to Fish	Microtox	Daphnia Magna (Water Flea)
Sodium hydroxide	None Known	LC50= 45.4 mg/L Oncorhynchus mykiss 96 h	None Known	None Known
Water	None Known	None Known	None Known	None Known

Persistence and Degradability

No information available.

Chemical Name	Log Pow
Sodium hydroxide	None Known
Water	None Known

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method

Dispose of in accordance with local regulations.

Chemical Name	RCRA - Halogenated Organic Compounds	RCRA - P Series Wastes	RCRA - F Series Wastes	RCRA - K Series Wastes
Sodium hydroxide - 1310-73-2	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	SODIUM HYDROXIDE SOLUTION
Hazard Class	8
UN-No	1824
Packing Group	III
Reportable Quantity (RQ)	1000
Δ	

IATA

UN-No	1824
Proper Shipping Name	SODIUM HYDROXIDE SOLUTION
Hazard Class	8
Packing Group	111

IMDG/IMO

Proper Shipping Name	SODIUM HYDROXIDE SOLUTION		
Hazard Class	8		
UN-No	1824		
Packing Group	III		

15. REGULATORY INFORMATION

International Inventories

Component	TSCA	DSL	EINECS/ELIN CS	ENCS	IECSC	KECL	PICCS	AICS
Sodium hydroxide 1310-73-2 (4)	Present	Х	X	1-410; 2-1972	Х	KE-31487	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 does not contain any 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 %
Sodium hydroxide	1310-73-2	4	None Known
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

Component	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Sodium hydroxide 1310-73-2 (4)	None Known	None Known	None Known	None Known
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 does not contain any substances regulated as hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act Amendments of 1990.

Chemical Name	CAS-No	Weight %	HAPS data	VOC Chemicals	Class 1 Ozone Depletors	Class 2 Ozone Depletors
Sodium hydroxide	1310-73-2	4	None Known	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
Sodium hydroxide	1000 lb	None Known
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

Sodium hydroxide	1310-73-2	None Known
Water	7732-18-5	None Known

U.S. State Right-to-Know Regulations

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Sodium hydroxide	Х	Х	Х	None Known	Х
Water	None Known	None Known	None Known	None Known	None Known

International Regulations

Mexico - Grade

Chemical Name	Carcinogen Status	Exposure Limits
Sodium hydroxide	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
Sodium hydroxide	1 %
1310-73-2 (4)	E
Water	Uncontrolled product according to WHMIS classification criteria
7732-18-5 (to 100%)	



16. OTHER INFORMATION

NFPA	HMIS		NFPA HMIS PPE		Transport Symbol	
	Health Hazard	3				
	Fire Hazard	0				
	Reactivity	2				
				~		

Prepared By	Regulatory Affairs Department
Issuing Date	1/11/12
Revision Date	11-Jan-2012

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