

**Issuing Date** 11/20/2012

Revision Number 0

1. PRODUCT AND COMPANY IDENTIFICATION						
Product Name	CARBON DIOXIDE REAGENT B					
Product Code(s)	4253					
Recommended Use	Test kit reagent. 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						
WARNING! Appearance Clear, colorless	Emergency Overview Harmful if swallowed May cause skin, eye, and respiratory tract irritation May cause irritation of the gastrointestinal tract Physical State Liquid Odor Odorless					
OSHA Regulatory Status	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	Eye contact, Skin contact, Ingestion, Inhalation.					
Acute Toxicity Eyes Skin Inhalation Ingestion	May cause irritation. May cause irritation. Prolonged skin contact may defat the skin and produce dermatitis. May cause irritation of respiratory tract. Harmful if swallowed. Ingestion may cause gastrointestinal irritation.					
Chronic Effects Aggravated Medical Conditions	Hypersensitivity may occur in those with preexisting skin disorders.					

## **3. COMPOSITION/INFORMATION ON INGREDIENTS**

Formula

NaOH in water

Chemical Name	CAS-No	Weight %
Sodium hydroxide	1310-73-2	<0.1
Water	7732-18-5	to 100%

## **4. FIRST AID MEASURES**

General Advice	Do not get in eyes, on skin, or on clothing. Do not breathe 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	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.
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	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
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Flammable Properties Flash Point		Not flam Not app	imable. Not a fire hazaro licable	l.		
Suitable Extinguishing	Media	circums		t are appropriate to local ing environment. Dry chemical, istant foam.		
Explosion Data NFPA	Health Hazard 1	Flammability 0	Stability 0	Physical and Chemical Hazards N/A		
HMIS	Health Hazard 2	Flammability 0	Stability 1			
6. ACCIDENTAL RELEASE MEASURES						
Personal Precautions	Personal Precautions Ensure adequate ventilation. Avoid contact with skin, eyes, and inhalation of vapors. Use					

 Methods for Cleaning Up
 Containerize spill material and hold for later disposal. If local regulations permit, dissolve

Containerize spill material and hold for later disposal. If local regulations permit, dissolve with large volume of water, neutralize with dilute acid (acetic, hydrochloric), then rinse to drain with excess water. After cleaning, flush away traces with water.

and alkalis. Avoid all contact with metals. Keep out of the reach of children.

### 7. HANDLING AND STORAGE

HandlingHandle in accordance with good industrial hygiene and safety practice. Prevent contact with<br/>skin, eyes, and clothing. Do not ingest. Do not eat, drink, or smoke when using this product.StorageKeep containers tightly closed in a dry, cool, and well-ventilated place. Separate from acids

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Sodium hydroxide 1310-73-2	None Known	TWA: 2 mg/m <sup>3</sup>	IDLH: 10 mg/m <sup>3</sup> Ceiling: 2 mg/m <sup>3</sup>
Water 7732-18-5	None Known	None Known	None Known

**Engineering Measures** 

Ensure adequate ventilation, especially in confined areas.

#### Personal Protective Equipment

Eye/Face Protection	Safety glasses with side-shields.					
Skin and Body Protection	Wear protective gloves/clothing.					
Respiratory Protection		When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. 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.				
Hygiene Measures	smoke when using this					
	9. PHYSICAL AND	CHEMICAL PROPERTIE	S			
Appearance	Clear, colorless	Odor	Odorless			
Physical State	Liquid	pH	11 Nataraliashta			
Flash Point Boiling Point/Range	Not applicable ca. 100°C/212°F	Autoignition Temperature	Not applicable			
Doning i ontariango	00.100 0/2121	Flammability Limits in Air	Not applicable			
Vapor Pressure	No information available	Vapor Density	No information available			
	10. STABILIT	Y AND REACTIVITY				
Stability	Stable under normal of	conditions of use and storage.				
Incompatible Products	Strong acids. Metals.					
Conditions to Avoid	Excessive heat. Incon	Excessive heat. Incompatible products.				
Hazardous Decomposition Pr	oducts Sodium oxides.					
Hazardous Reactions	Contact with metals m	Contact with metals may evolve flammable hydrogen gas.				
Hazardous Polymerization	Hazardous polymerization does not occur.					

# **11. TOXICOLOGICAL INFORMATION**

## Acute Toxicity

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Sodium hydroxide	None Known	1350 mg/kg (Rabbit)	None Known
Water	90 mL/kg (Rat)	None Known	None Known

Chronic Toxicity

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 I	Known	LC50= 45.4 mg/L Oncorhynchus mykiss 96 h	None Known	None Known
Water	None I	Known	None Known	None Known	None Known
Chemical Name	)	Log Pow			
Sodium hydroxid	e	None Known			
Water			None Known		

### **13. DISPOSAL CONSIDERATIONS**

Waste Disposal Method

Dispose according to federal, state, and local regulations. If permitted, neutralize reagent with acid and rinse to drain with excess water.

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
 Not regulated

 IATA
 Not regulated

IMDG/IMO

Not regulated

### **15. REGULATORY INFORMATION**

#### International Inventories

Component	TSCA	DSL	EINECS/ELIN CS	ENCS	IECSC	KECL	PICCS	AICS
Sodium hydroxide 1310-73-2 ( <0.1 )	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 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 %	
Sodium hydroxide	1310-73-2	<0.1	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**

This product does not contain any substances regulated as 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
Sodium hydroxide 1310-73-2 ( <0.1 )	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 HAPs.

Chemical Name	CAS-No	Weight %	HAPS data	VOC Chemicals	Class 1 Ozone Depletors	Class 2 Ozone Depletors
Sodium hydroxide	1310-73-2	<0.1	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

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

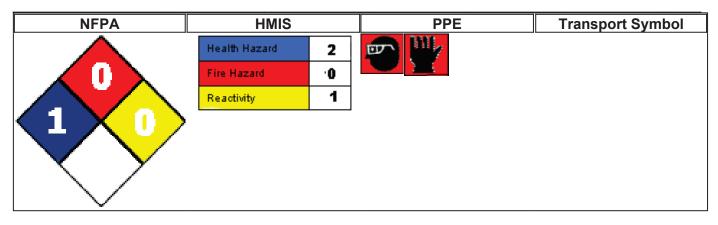
Canada

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 ( <0.1 )	E	
Water 7732-18-5 ( to 100% )	Uncontrolled product according to WHMIS classification criteria	

# **16. OTHER INFORMATION**

#### CARBON DIOXIDE REAGENT B



**Prepared By** Issuing Date Revision Date **Revision Note** 

**Regulatory Affairs Department** 11/20/2012 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