

## **SAFETY DATA SHEETS**

**This SDS packet was issued with item:**

078684047

**The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).**

078684237

**MATERIAL SAFETY DATA SHEET, NO. 005213**

**SODALIME®**

(CO<sub>2</sub> ABSORBENT-SODA LIME U.S.P./N.F.)

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**SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

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Issue Date: Revised February, 2003  
Distributor's Name: Puritan Medical Products, Inc.  
Address: 9101 Bond Street, Overland Park, Kansas 66214  
Emergency Phone No: 1-800-949-7937  
All other inquiries: 913-495-3600  
Manufacturer's Name: Molecular Products Ltd.  
Address: Mill End Thaxted  
Essex U.K. CM6 2LT  
Chemical Name and Synonyms: Calcium Hydroxide; Sodium Hydroxide  
Trade Name and Synonyms: **SODASORB® Absorbent, Sodalime**  
Chemical Family: Metal hydroxides  
Formula: Ca(OH)<sub>2</sub>, NaOH

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**SECTION 2 - COMPOSITION / INFORMATION ON INGREDIENTS**

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<u>Material</u>	<u>Volume %</u>	<u>CAS No.</u>	<u>OSHA PEL</u>	<u>ACGIH TLV / STEL</u>
Calcium hydroxide	> 73%	1305-62-0	5 mg/cubic meter	5 mg/cubic meter
Sodium hydroxide	< 4%	1310-73-2	2 mg/cubic meter*	2 mg/cubic meter*
Water	<19%	7732-18-5	None listed	None listed

\*Ceiling limit

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**SECTION 3 - HAZARDS IDENTIFICATION**

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**EMERGENCY OVERVIEW**

CAUTION!

Can cause burns to eyes and skin

Effects of Overexposure

Inhalation:

Dust can cause irritation and injury to the respiratory system

Direct contact:

Can cause severe irritation to the eyes on contact; can cause irritation to the skin on contact.

Ingestion:

Harmful if swallowed

Carcinogenicity:

Not listed in NTP or IARC; not regulated as a carcinogen by OSHA

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**SECTION 4 - FIRST AID MEASURES**

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Emergency and First Aid Procedures

Inhalation:

Remove from exposure. Obtain prompt medical attention.

Direct contact: Eyes

Irrigate thoroughly with clean water. Obtain medical attention.

Skin

Drench with clean water.

Ingestion Wash out mouth thoroughly. Do not induce vomiting. Obtain medical attention.

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### SECTION 5 - FIRE FIGHTING MEASURES

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Flash Point: N/A  
Flammable Limit: N/A  
Autoignition: N/A  
Extinguishing Media: Non-flammable.  
Special Fire Fighting Procedures: Material is non-flammable, use water, foam or CO2 on packaging.  
Unusual Fire and Explosion Hazards: None

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### SECTION 6 - ACCIDENTAL RELEASE MEASURES

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Steps to be taken in case material is released or spilled: Avoid breathing dust. Avoid skin and eye contact. Contain material. Sweep or vacuum up loose material.

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### SECTION 7 - HANDLING AND STORAGE

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Precautions to be taken in handling and storage: Store in a clean dry environment. Avoid direct sunlight. Keep containers closed.

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### SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

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Eye Protection: Safety goggles or glasses  
Protective Gloves: PVC or rubber  
Respiratory Protection: Nuisance dusk mask recommended.  
Other Protective Equipment: Safety shoes when handling cartons of material.

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### SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

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Molecular Weight: N/A  
Boiling Point: N/A  
Vapor Pressure: N/A  
Specific Gravity (Air = 1.0): N/A  
Solubility in Water: Slight  
Percent Volatile by Volume: <19% water  
Evaporation Rate: Slow, water only  
Appearance, odor and state: White or colored solids

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### SECTION 10 - STABILITY AND REACTIVITY

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Stability: Stable  
Conditions to Avoid: Converts to calcium and sodium carbonate when exposed to air.  
Materials to Avoid: Acids, chloroform or trichloroethylene  
Hazardous Decomposition Products: N/A  
Hazardous Polymerization: Will Not Occur

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**SECTION 11 - TOXICOLOGICAL INFORMATION**

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Calcium hydroxide	LD <sub>50</sub>	7.3 g/kg rat
Sodium hydroxide	LD(10)	500 mg/kg rbt

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**SECTION 12 - ECOLOGICAL INFORMATION**

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No adverse ecological effects are expected.

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**SECTION 13 - DISPOSAL CONSIDERATIONS**

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Waste Disposal Method: Dispose of all product wastes and water rinses in accordance with current local, state, and Federal regulations.

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**SECTION 14 - TRANSPORT INFORMATION**

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DOT / IMO Shipping Name:	None
Hazard Class:	Non-hazardous material
Identification number:	N/A
Product RQ	None
Shipping Label(s)	N/A
Placard (when required)	N/A
Special Shipping Information	Ship in strong outer packaging.

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**SECTION 15 - REGULATORY INFORMATION**

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The following information concerns selected regulatory requirements potentially applicable to this product. Not all requirements are identified. Users of this product are responsible for their own regulatory compliance on a federal, state and local level.

U.S. Federal Regulations:

CERCLA:	Reportable Quantity: None
SARA	Extremely Hazardous Substances: None
	Threshold Planning Quantity: None
SARA HAZARD CLASS:	Immediate: No
	Delayed: No
	Pressure: No
	Reactivity: No
	Fire: No
SARA ANNUAL REPORT	Not required
40 CFR PART 68:	Mixture not listed
TSCA	Calcium hydroxide and sodium hydroxide are listed on the TSCA inventory.
OSHA	Components of this mixture are not listed in Appendix A.
FDA	This material is regulated as a medical device.

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## SECTION 16 - OTHER INFORMATION

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NFPA Ratings:

Health = 0  
Flammability=0  
Reactivity=0

Additional Information:

The intended use of this product is as an absorbent for carbon dioxide and other acidic gases.

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The information set forth in this Material Safety Data Sheet is furnished free of charge for use by qualified employees of the user. All such information is furnished for the independent investigation and verification thereof by the user. NO GUARANTEE OR WARRANTY (INCLUDING MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE) OF ANY KIND IS MADE WITH RESPECT TO SUCH INFORMATION OR THE ACCURACY OR RELIABILITY THEREOF, OR WITH RESPECT TO THE PRODUCT COVERED BY SUCH INFORMATION. Puritan Medical Products, Inc. assumes no liability for any damages (whether incidental, consequential, special or otherwise) whatsoever arising out of or in connection with the use of such information or product, and all such use shall be at the user's sole risk.

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# SAFETY DATA SHEET

Soda lime

## Section 1. Identification

<b>GHS product identifier</b>	: Soda lime
<b>Other means of identification</b>	: Not available.
<b>Product use</b>	: Absorbent.
<b>SDS #</b>	: 005213
<b>Supplier's details</b>	: Airgas USA, LLC and its affiliates 259 North Radnor-Chester Road Suite 100 Radnor, PA 19087-5283 1-610-687-5253
<b>24-hour telephone</b>	: 1-866-734-3438

## Section 2. Hazards identification

<b>OSHA/HCS status</b>	: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
<b>Classification of the substance or mixture</b>	: SKIN CORROSION/IRRITATION - Category 1 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1

### GHS label elements

#### **Hazard pictograms**



<b>Signal word</b>	: Danger
<b>Hazard statements</b>	: Causes severe skin burns and eye damage.

### Precautionary statements

<b>General</b>	: Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand.
<b>Prevention</b>	: Wear protective gloves. Wear eye or face protection. Wear protective clothing. Wash hands thoroughly after handling.
<b>Response</b>	: IF SWALLOWED: Immediately call a POISON CENTER or physician. Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Wash contaminated clothing before reuse. Immediately call a POISON CENTER or physician. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or physician.
<b>Storage</b>	: Store locked up.
<b>Disposal</b>	: Dispose of contents and container in accordance with all local, regional, national and international regulations.
<b>Hazards not otherwise classified</b>	: None known.

## Section 3. Composition/information on ingredients

**Substance/mixture** : Mixture  
**Other means of identification** : Not available.

### CAS number/other identifiers

**CAS number** : Not applicable.  
**Product code** : 005213

Ingredient name	%	CAS number
Calcium dihydroxide	73 - 99	1305-62-0
WATER	1 - 19	7732-18-5
sodium hydroxide	1 - 4	1310-73-2

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

## Section 4. First aid measures

### Description of necessary first aid measures

**Eye contact** : Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician.

**Inhalation** : Not applicable.

**Skin contact** : Get medical attention immediately. Call a poison center or physician. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.

**Ingestion** : Not applicable

### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

**Eye contact** : Causes serious eye damage.  
**Inhalation** : No known significant effects or critical hazards.  
**Skin contact** : Causes severe burns.  
**Frostbite** : Try to warm up the frozen tissues and seek medical attention.  
**Ingestion** : No known significant effects or critical hazards.

#### Over-exposure signs/symptoms

**Eye contact** : Adverse symptoms may include the following:, pain, watering, redness  
**Inhalation** : No specific data.  
**Skin contact** : Adverse symptoms may include the following:, pain or irritation, redness, blistering may occur  
**Ingestion** : Adverse symptoms may include the following:, stomach pains

### Indication of immediate medical attention and special treatment needed, if necessary

**Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.  
**Specific treatments** : No specific treatment.

## Section 4. First aid measures

- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

## Section 5. Fire-fighting measures

### Extinguishing media

- Suitable extinguishing media** : Use an extinguishing agent suitable for the surrounding fire.

- Unsuitable extinguishing media** : None known.

- Specific hazards arising from the chemical** : No specific fire or explosion hazard.

- Hazardous thermal decomposition products** : Decomposition products may include the following materials:  
metal oxide/oxides

- Special protective actions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

- For emergency responders** : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

### Methods and materials for containment and cleaning up

- Small spill** : Move containers from spill area. Avoid dust generation. Using a vacuum with HEPA filter will reduce dust dispersal. Place spilled material in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.

- Large spill** : Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.



## Section 7. Handling and storage

### Precautions for safe handling

**Protective measures** : Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not ingest. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

**Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

**Conditions for safe storage, including any incompatibilities** : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

## Section 8. Exposure controls/personal protection

### Control parameters

#### Occupational exposure limits

Ingredient name	Exposure limits
Calcium dihydroxide	<b>OSHA PEL (United States, 2/2013).</b> TWA: 5 mg/m <sup>3</sup> 8 hours. Form: Respirable fraction TWA: 15 mg/m <sup>3</sup> 8 hours. Form: Total dust <b>ACGIH TLV (United States, 3/2015).</b> TWA: 5 mg/m <sup>3</sup> 8 hours. <b>NIOSH REL (United States, 10/2013).</b> TWA: 5 mg/m <sup>3</sup> 10 hours. <b>OSHA PEL 1989 (United States, 3/1989).</b> TWA: 5 mg/m <sup>3</sup> 8 hours.
WATER sodium hydroxide	None. <b>ACGIH TLV (United States, 3/2015).</b> C: 2 mg/m <sup>3</sup> <b>NIOSH REL (United States, 10/2013).</b> CEIL: 2 mg/m <sup>3</sup> <b>OSHA PEL (United States, 2/2013).</b> TWA: 2 mg/m <sup>3</sup> 8 hours. <b>OSHA PEL 1989 (United States, 3/1989).</b> CEIL: 2 mg/m <sup>3</sup>

**Appropriate engineering controls** : If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

**Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

### Individual protection measures

**Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

## Section 8. Exposure controls/personal protection

- Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead.
- Skin protection**
- Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

## Section 9. Physical and chemical properties

### Appearance

- Physical state** : Solid.
- Color** : Not available.
- Melting/freezing point** :  $\geq 450^{\circ}\text{C}$  ( $\geq 842^{\circ}\text{F}$ ) This is based on data for the following ingredient: calcium dihydroxide. Weighted average:  $488.13^{\circ}\text{C}$  ( $910.6^{\circ}\text{F}$ )
- Critical temperature** : Not available.
- Odor** : Not available.
- Odor threshold** : Not available.
- pH** : 7.0 - 14.0
- Flash point** : Not available.
- Burning time** : Not available.
- Burning rate** : Not available.
- Evaporation rate** : Not available.
- Flammability (solid, gas)** : Not available.
- Lower and upper explosive (flammable) limits** : Not available.
- Vapor pressure** : Not available.
- Vapor density** : Not available.
- Gas Density (lb/ft<sup>3</sup>)** : Weighted average: 1.85
- Relative density** : Not available.
- Solubility** : Not available.
- Solubility in water** : Not available.
- Partition coefficient: n-octanol/water** : Not available.
- Auto-ignition temperature** : Not available.
- Decomposition temperature** : Not available.
- SADT** : Not available.
- Viscosity** : Not available.

## Section 10. Stability and reactivity

- Reactivity** : No specific test data related to reactivity available for this product or its ingredients.
- Chemical stability** : The product is stable.
- Possibility of hazardous reactions** : Under normal conditions of storage and use, hazardous reactions will not occur.
- Conditions to avoid** : No specific data.
- Incompatible materials** : No specific data.
- Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.
- Hazardous polymerization** : Under normal conditions of storage and use, hazardous polymerization will not occur.

## Section 11. Toxicological information

### Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Calcium dihydroxide	LD50 Oral	Rat	7340 mg/kg	-

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Calcium dihydroxide sodium hydroxide	Eyes - Severe irritant	Rabbit	-	10 milligrams	-
	Eyes - Severe irritant	Monkey	-	24 hours 1 Percent	-
	Eyes - Mild irritant	Rabbit	-	400 Micrograms	-
	Eyes - Severe irritant	Rabbit	-	24 hours 50 Micrograms	-
	Eyes - Severe irritant	Rabbit	-	1 Percent	-
	Eyes - Severe irritant	Rabbit	-	0.5 minutes 1 milligrams	-
	Skin - Mild irritant	Human	-	24 hours 2 Percent	-
Skin - Severe irritant	Rabbit	-	24 hours 500 milligrams	-	

#### Sensitization

Not available.

#### Mutagenicity

Not available.

#### Carcinogenicity

Not available.

#### Reproductive toxicity

Not available.

#### Teratogenicity

Not available.

#### Specific target organ toxicity (single exposure)

## Section 11. Toxicological information

Name	Category	Route of exposure	Target organs
Calcium dihydroxide	Category 1	Not determined	respiratory tract

### Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
Calcium dihydroxide	Category 2	Not determined	lungs

### Aspiration hazard

Not available.

**Information on the likely routes of exposure** : Not available.

### Potential acute health effects

**Eye contact** : Causes serious eye damage.  
**Inhalation** : No known significant effects or critical hazards.  
**Skin contact** : Causes severe burns.  
**Ingestion** : No known significant effects or critical hazards.

### Symptoms related to the physical, chemical and toxicological characteristics

**Eye contact** : Adverse symptoms may include the following: pain, watering, redness  
**Inhalation** : No specific data.  
**Skin contact** : Adverse symptoms may include the following: pain or irritation, redness, blistering may occur  
**Ingestion** : Adverse symptoms may include the following: stomach pains

### Delayed and immediate effects and also chronic effects from short and long term exposure

#### Short term exposure

**Potential immediate effects** : Not available.  
**Potential delayed effects** : Not available.

#### Long term exposure

**Potential immediate effects** : Not available.  
**Potential delayed effects** : Not available.

### Potential chronic health effects

Not available.

**General** : No known significant effects or critical hazards.  
**Carcinogenicity** : No known significant effects or critical hazards.  
**Mutagenicity** : No known significant effects or critical hazards.  
**Teratogenicity** : No known significant effects or critical hazards.  
**Developmental effects** : No known significant effects or critical hazards.  
**Fertility effects** : No known significant effects or critical hazards.

### Numerical measures of toxicity

#### Acute toxicity estimates

Not available.

## Section 12. Ecological information

### Toxicity

Product/ingredient name	Result	Species	Exposure
Calcium dihydroxide	Acute LC50 33884.4 µg/l Fresh water	Fish - Clarias gariepinus - Fingerling	96 hours
sodium hydroxide	Acute EC50 40.38 mg/l Fresh water	Crustaceans - Ceriodaphnia dubia - Neonate	48 hours
	Acute LC50 125 ppm Fresh water	Fish - Gambusia affinis - Adult	96 hours

### Persistence and degradability

Not available.

### Bioaccumulative potential

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
WATER	-1.38	-	low

### Mobility in soil






Soil/water partition coefficient (K<sub>oc</sub>) : Not available.

Other adverse effects : No known significant effects or critical hazards.

## Section 13. Disposal considerations

**Disposal methods** : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

## Section 14. Transport information

	DOT	TDG	Mexico	IMDG	IATA
<b>UN number</b>	UN1907	UN1907	UN1907	UN1907	UN1907
<b>UN proper shipping name</b>	Soda lime	Soda lime	Soda Lime	SODA LIME	SODA LIME
<b>Transport hazard class(es)</b>	8 	8 	8 	8 	8 
<b>Packing group</b>	III	III	III	III	III
<b>Environment</b>	No.	No.	No.	No.	No.

## Section 14. Transport information

<b>Additional information</b>	<b>Reportable quantity</b> 25000 lbs / 11350 kg Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements.	Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.40-2.42 (Class 8).	-	-	-
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“Refer to CFR 49 (or authority having jurisdiction) to determine the information required for shipment of the product.”

**Special precautions for user** : **Transport within user’s premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** : Not available.

## Section 15. Regulatory information

**U.S. Federal regulations** : **TSCA 8(a) CDR Exempt/Partial exemption:** Not determined  
**United States inventory (TSCA 8b):** All components are listed or exempted.  
**Clean Water Act (CWA) 311:** sodium hydroxide

**Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)** : Not listed

**Clean Air Act Section 602 Class I Substances** : Not listed

**Clean Air Act Section 602 Class II Substances** : Not listed

**DEA List I Chemicals (Precursor Chemicals)** : Not listed

**DEA List II Chemicals (Essential Chemicals)** : Not listed

**SARA 302/304**

Composition/information on ingredients

No products were found.

**SARA 304 RQ** : Not applicable.

**SARA 311/312**

**Classification** : Immediate (acute) health hazard

Composition/information on ingredients

Name	%	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
Calcium dihydroxide	73 - 99	No.	No.	No.	Yes.	Yes.
sodium hydroxide	1 - 4	No.	No.	No.	Yes.	No.

**State regulations**

**Massachusetts** : The following components are listed: CALCIUM HYDROXIDE; SODIUM HYDROXIDE

**New York** : The following components are listed: Sodium hydroxide

## Section 15. Regulatory information

- New Jersey** : The following components are listed: CALCIUM HYDROXIDE; HYDRATED LIME; SODIUM HYDROXIDE; CAUSTIC SODA
- Pennsylvania** : The following components are listed: CALCIUM HYDROXIDE; SODIUM HYDROXIDE (NA(OH))

### International regulations

#### International lists

#### National inventory

- Australia** : All components are listed or exempted.
- Canada** : All components are listed or exempted.
- China** : All components are listed or exempted.
- Europe** : All components are listed or exempted.
- Japan** : All components are listed or exempted.
- Malaysia** : Not determined.
- New Zealand** : All components are listed or exempted.
- Philippines** : All components are listed or exempted.
- Republic of Korea** : All components are listed or exempted.
- Taiwan** : All components are listed or exempted.

### Canada

- WHMIS (Canada)** : Class E: Corrosive material  
**CEPA Toxic substances:** None of the components are listed.  
**Canadian ARET:** None of the components are listed.  
**Canadian NPRI:** None of the components are listed.  
**Alberta Designated Substances:** None of the components are listed.  
**Ontario Designated Substances:** None of the components are listed.  
**Quebec Designated Substances:** None of the components are listed.

## Section 16. Other information

**Canada Label requirements** : Class E: Corrosive material

### Hazardous Material Information System (U.S.A.)

Health	3
Flammability	0
Physical hazards	0

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings are not required on SDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

### National Fire Protection Association (U.S.A.)



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## Section 16. Other information

Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

### Procedure used to derive the classification

Classification	Justification
Skin Corr. 1, H314 Eye Dam. 1, H318	Expert judgment Expert judgment

### History

**Date of printing** : 6/27/2016

**Date of issue/Date of revision** : 6/27/2016

**Date of previous issue** : 6/26/2016

**Version** : 0.04

**Key to abbreviations** :

- ATE = Acute Toxicity Estimate
- BCF = Bioconcentration Factor
- GHS = Globally Harmonized System of Classification and Labelling of Chemicals
- IATA = International Air Transport Association
- IBC = Intermediate Bulk Container
- IMDG = International Maritime Dangerous Goods
- LogPow = logarithm of the octanol/water partition coefficient
- MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
- UN = United Nations

**References** : Not available.

☑ Indicates information that has changed from previously issued version.

### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.