Section 1 - Product Description

Product Name: Soda Lime
Product Code(s): 88-7960
Size: 500 g
Chemical Name: Soda Lime
CAS Number: 8006-28-8
Formula: See Section 3
Synonyms: none known
Distributor: Carolina Biological Supply Company, 2700 York Road, Burlington, NC 27215
Chemical Information: 800-227-1150 (8am-5pm (ET) M-F) Chemtrec 800-424-9300 (Transportation Spill Response 24 hours)

Section 2 - Hazard Identification

Emergency Overview: DANGER - Causes severe burns. Do not breathe dust.
Potential Health Effects:
- Eyes: Causes severe burns and eye damage upon direct contact. Vapor is irritating.
- Skin: May cause severe irritation or chemical burns.
- Ingestion: May severely irritate or damage digestive tract.
- Inhalation: May severely irritate or damage mucous membranes and respiratory tract.

Section 3 - Composition / Information on Ingredients

Principal Hazardous Components: Soda Lime(8006-28-8)100%; *** Soda Lime is a mixture of ***
Calcium Hydroxide (CAS # 1305-62-0) 50 - 100%
Potassium Hydroxide (CAS # 1310-58-3) 1 - 10%
Sodium Hydroxide (CAS # 1310-73-2) < 4%
Indicator < 1%

TLV units: (Calcium oxide) ACGIH-TLV 2 mg/m3
(Sodium hydroxide) ACGIH-TLV 2 mg/m3
PEL units: (Calcium oxide) OSHA-PEL 5 mg/m3
(Sodium hydroxide) OSHA-PEL 2 mg/m3

Section 4 - First Aid Measures

Emergency and First Aid Procedures:
- Eyes - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- Skin - After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water.
- Ingestion - If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.
- Inhalation - In case of accident by inhalation: remove casualty to fresh air and keep at rest.
Section 5 - Firefighting Procedures

Flash Point (Method Used): N/A  
NFPA Rating:  
  Health: 3  
  Fire: 0  
  Reactivity: 1  
Extinguisher Media: Use dry chemical, CO2 or appropriate foam.  
Flammable Limits in Air % by Volume: N/A  
Autoignition Temperature: N/A  
Special Firefighting Procedures: Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.  
Unusual Fire and Explosion Hazards: Fire or excessive heat may produce hazardous decomposition products.

Section 6 - Spill or Leak Procedures

Steps to Take in Case Material Is Released or Spilled: Ventilate area of spill. Clean-up personnel should wear proper protective equipment. Avoid creating dust. Sweep or scoop up and containerize for disposal.

Section 7 - Special Precautions

Precautions to Take in Handling or Storing: Keep container tightly closed in a cool, well-ventilated place. Keep container tightly closed and at temperature not exceeding ... OC (to be specified by the manufacturer).

Section 8 - Protection Information

Respiratory Protection (Specify Type): None needed under normal conditions of use with adequate ventilation. A NIOSH/MSHA chemical cartridge respirator should be worn if PEL or TLV is exceeded.  
Ventilation:  
  Local Exhaust: Yes  
  Mechanical(General): Yes  
  Special: No  
  Other: No  
Protective Gloves: Natural rubber, Neoprene, PVC or equivalent.  
Eye Protection: Splash proof chemical safety goggles should be worn.  
Other Protective Clothing or Equipment: Lab coat, apron, eye wash, safety shower.

Section 9 - Physical Data

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Molecular Weight</td>
<td>N/A</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>N/A</td>
</tr>
<tr>
<td>Vapor Density(Air=1)</td>
<td>N/A</td>
</tr>
<tr>
<td>Percent Volatile by Volume</td>
<td>N/A</td>
</tr>
<tr>
<td>Solubility in Water</td>
<td>Soluble</td>
</tr>
<tr>
<td>Melting Point</td>
<td>N/A</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>1 mmHg at 739 OC (NaOH)</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>Approx. 2.7</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>N/A</td>
</tr>
<tr>
<td>Appearance and Odor</td>
<td>Odorless white-gray solid.</td>
</tr>
</tbody>
</table>

Section 10 - Reactivity Data

Stability: Stable  
Conditions to Avoid: Water; Product is water reactive.  
Exposure to air and moisture.  
Incompatibility (Materials to Avoid): Acids,  
Hazardous Decomposition Products: CaO,  
Hazardous Polymerization: Will not occur

Section 11 - Toxicity Data

Toxicity Data: orl-rabbit LD50 500 mg/kg; dermal-rabbit LD50 1350 mg/kg  
Effects of Overexposure:  
  Acute: See Section 2
Chronic: Not listed as a carcinogen by IARC, NTP or OSHA.
Conditions Aggravated by Overexposure: N/A
Target Organs: Respiratory system Skin Eyes
Primary Route(s) of Entry: Inhalation, ingestion, eye or skin contact.

Section 12 - Ecological Data

EPA Waste Numbers: D002 (Corrosive)

Section 13 - Disposal Information

Waste Disposal Methods: Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance.

Section 14 - Transport Information

DOT Proper Shipping Name: UN1907, Soda lime, 8, III

Section 15 - Regulatory Information

EPA TSCA Status: On TSCA Inventory
Hazard Category for SARA Section 311/312 Reporting: Acute

<table>
<thead>
<tr>
<th>Name List</th>
<th>Chemical Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calcium oxide - No</td>
<td>Calcium oxide - No</td>
</tr>
<tr>
<td>Sodium hydroxide - No</td>
<td>Sodium hydroxide - No</td>
</tr>
<tr>
<td>Potassium Hydroxide - No</td>
<td>Potassium Hydroxide - No</td>
</tr>
</tbody>
</table>

CERCLA Section 103 RQ(lb.): Calcium oxide - No
Sodium hydroxide - 1000 lbs (454 kg)
Potassium Hydroxide - 1000 lbs (454 kg)

RCRA Section 261.33: Calcium oxide - No
Sodium hydroxide - No
Potassium Hydroxide - No

Section 16 - Additional Information

The information provided in this Material Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the Material Safety Data Sheet. Any employer must carefully assess the applicability of any information contained herein in regards to the particular use to which the employer puts the material.

Glossary
ACGIH  American Conference of Governmental Industrial Hygienists
CAS Number  Chemical Services Abstract Number
CERCLA  Comprehensive Environmental Response, Compensation, and Liability Act
DOT  U.S. Department of Transportation
IARC  International Agency of Research on Cancer
N/A  Not Available
NTP  National Toxicology Program
OSHA  Occupational Safety and Health Administration
PEL  Permissible Exposure Limit
ppm  Parts per million
RCRA  Resource Conservation and Recovery Act
SARA  Superfund Amendments and Reauthorization Act
TLV  Threshold Limit Value
TSCA  Toxic Substances Control Act