# Safety Data Sheet

## Soda Lime

CAROLINA®
www.carolina.com

## Section 1 Product Description

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|---|---|
| **Product Name:** | Soda Lime |
| **Recommended Use:** | Science education applications |
| **Synonyms:** | none known |
| **Distributor:** | Carolina Biological Supply Company<br>2700 York Road, Burlington, NC 27215<br>1-800-227-1150 |
| **Chemical Information:** | 800-227-1150 (8am-5pm (ET) M-F) |
| **Chemtrec:** | 800-424-9300 (Transportation Spill Response 24 hours) |

## Section 2 Hazard Identification

**Classification of the chemical in accordance with paragraph (d) of §1910.1200;**

**DANGER**

Causes severe skin burns and eye damage. Causes serious eye damage. Harmful to aquatic life.

**GHS Classification:**
Serious Eye Damage/Eye Irritation Category 1, Skin Corrosion/Irritation Category 2, Hazardous to the aquatic environment - Acute Category 3

## Section 3 Composition / Information on Ingredients

| Chemical Name | CAS # | % |
|---|---|---|
| Soda Lime | 8006-28-8 | 100 |

## Section 4 First Aid Measures

**Emergency and First Aid Procedures**

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|---|---|
| **Inhalation:** | IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. |
| **Eyes:** | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| **Skin Contact:** | IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. |
| **Ingestion:** | IF SWALLOWED: rinse mouth. Do NOT induce vomiting. |

## Section 5 Firefighting Procedures

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| **Extinguishing Media:** | Use dry chemical, CO2 or appropriate foam. |
| **Fire Fighting Methods and Protection:** | Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus. |
| **Fire and/or Explosion Hazards:** | Fire or excessive heat may produce hazardous decomposition products. |
| **Hazardous Combustion Products:** | Calcium Oxides, Sodium Oxides |

## Section 6 Spill or Leak Procedures

Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation.

## Section 7 Handling and Storage

**Handling:** Do not breathe dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection. 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).

**Storage:** Store locked up. Keep container tightly closed in a cool, well-ventilated place.

**Storage Code:** White - Corrosive. Separate acids from bases; separate oxidizer acids from organic acids.

## Section 8 Protection Information

| | ACGIH | | OSHA PEL | |
|---|---|---|---|---|
| **Chemical Name** | **(TWA)** | **(STEL)** | **(TWA)** | **(STEL)** |
| Calcium Dihydroxide; Sodium Hydroxide | 5 mg/m3; 2 mg/m3 | N/A | 5 mg/m3; 2 mg/m3 | N/A |

**Control Parameters**

**Engineering Measures:** No exposure limits exist for the constituents of this product. General room ventilation might be required to maintain operator comfort under normal conditions of use.

**Personal Protective Equipment (PPE):** Lab coat, apron, eye wash, safety shower.

**Respiratory Protection:** No respiratory protection required under normal conditions of use.

**Eye Protection:** Wear chemical splash goggles when handling this product. Have an eye wash station available.

**Skin Protection:** Avoid skin contact by wearing chemically resistant gloves, an apron and other protective equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work.

**Gloves:** No information available

## Section 9 Physical Data

**Formula:** CaHNaO2
**Molecular Weight:** N/A
**Appearance:** White to Gray Solid
**Odor:** None
**Odor Threshold:** No data available
**pH:** 7.0 - 14.0
**Melting Point:** No data available
**Boiling Point:** No data available
**Flash Point:** No data available
**Flammable Limits in Air:** N/A

**Vapor Pressure:** 1 mmHg at 739 OC (NaOH)
**Evaporation Rate (BuAc=1):** N/A
**Vapor Density (Air=1):** N/A
**Specific Gravity:** Approx. 2.7
**Solubility in Water:** Soluble
**Log Pow (calculated):** No data available
**Autoignition Temperature:** No data available
**Decomposition Temperature:** No data available
**Viscosity:** No data available
**Percent Volatile by Volume:** N/A

## Section 10 Reactivity Data

**Reactivity:** No data available
**Chemical Stability:** Stable under normal conditions.
**Conditions to Avoid:** Exposure to air. Keep lid tightly closed when not in use.
**Incompatible Materials:** Strong oxidizing agents
**Hazardous Decomposition Products:** Sodium Oxides, Calcium Oxides
**Hazardous Polymerization:** Will not occur

## Section 11 Toxicity Data

**Routes of Entry** Inhalation, ingestion, eye or skin contact.
**Symptoms (Acute):** N/A, Vomiting, Nausea, Respiratory disorders, Pulmonary Edema, Respiratory Irritation
**Delayed Effects:** No data available

**Acute Toxicity:**

| Chemical Name | CAS Number | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|---|---|---|---|---|
| No data available | 8006-28-8 | Not determined | Not determined | Not determined |

**Carcinogenicity:**

| Chemical Name | CAS Number | IARC | NTP | OSHA |
|---|---|---|---|---|
| No data available | 8006-28-8 | Not listed | Not listed | Not listed |

**Chronic Effects:**

**Mutagenicity:** No evidence of a mutagenic effect.
**Teratogenicity:** No evidence of a teratogenic effect (birth defect).
**Sensitization:** No evidence of a sensitization effect.
**Reproductive:** No evidence of negative reproductive effects.
**Target Organ Effects:**
**Acute:** See Section 2, Eyes, Mucous Membranes, Respiratory system
**Chronic:** Not listed as a carcinogen by IARC, NTP or OSHA.

## Section 12 Ecological Data

**Overview:** Slight ecological hazard. In high concentrations, this product may be dangerous to plants and/or wildlife.
**Mobility:** No data
**Persistence:** No data
**Bioaccumulation:** No data
**Degradability:** No data
**Other Adverse Effects:** No data

| Chemical Name | CAS Number | Eco Toxicity |
|---|---|---|
| N/A | 8006-28-8 | |

## Section 13 Disposal Information

**Disposal Methods:** Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance.
Incinerate spent or discarded material a permitted industrial waste facility.
**Waste Disposal Code(s):** Not Determined

## Section 14 Transport Information

**Ground - DOT Proper Shipping Name:**
UN1907, Soda lime, 8, III

**Air - IATA Proper Shipping Name:**
UN-Number: 1907 Class: 8 Packing group: III Proper shipping name: Soda lime

## Section 15 Regulatory Information

**TSCA Status:** A component (or components) of this product is not listed on the TSCA Inventory of Existing Chemical Substances. Product is for research and development use only.

| Chemical Name | CAS Number | § 313 Name | § 304 RQ | CERCLA RQ | § 302 TPQ | CAA 112(2) TQ |
|---|---|---|---|---|---|---|
| Soda lime | 8006-28-8 | No | No | No | No | No |

## Section 16 Additional Information

**Revised: 09/09/2015** **Replaces: 09/03/2014** **Printed: 10-29-2015**

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.

**Glossary**

# Safety Data Sheet

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|---|---|
| ACGIH | American Conference of Governmental Industrial Hygienists |
| CAS | Chemical Abstract Service Number |
| CERCLA | Comprehensive Environmental Response, Compensation, and Liability Act |
| DOT | U.S. Department of Transportation |
| IARC | International Agency for 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 |
| IDLH | Immediately dangerous to life and health |