Calcium Oxide

CAROLINA® www.carolina.com

Product Description

Product Name: Recommended Use: Synonyms: Distributor:

Section 1

Calcium Oxide Science education applications Lime, Quick lime, Burnt Lime Carolina Biological Supply Company 2700 York Road, Burlington, NC 27215 1-800-227-1150 800-227-1150 (8am-5pm (ET) M-F) 800-424-9300 (Transportation Spill Response 24 hours)

Chemical Information: Chemtrec:

Hazard Identification

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

DANGER

Section 2



Causes skin irritation. Causes serious eye damage.

GHS Classification:

Serious Eye Damage/Eye Irritation Category 1, Skin Corrosion/Irritation Category 2

Section 3

Composition / Information on Ingredients

Chemical Name Calcium Oxide

<u>CAS #</u> 1305-78-8

<u>%</u> 100

Section 4

First Aid Measures

Emergency	and First	t Aid Procedures	
-----------	-----------	------------------	--

Inhalation:	In case of accident by inhalation: remove casualty to fresh air and keep at rest.				
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: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse.				
Ingestion:	If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.				
Section 5	Firefighting Procedures				
Extinguishing Media:	Use dry chemical, CO2 or appropriate foam.				

Section 6	Spill or Leak Procedures
Hazardous Combustion Products:	Calcium Oxides
Fire and/or Explosion Hazards:	Readily absorbs moisture from air. Non-combustible but contact with water or moisture may generate sufficient heat to ignite combustible materials Keep container dry.
Fire and/or Explosion Hererdo.	breathing apparatus.
Fire Fighting Methods and Protection:	Firefighters should wear full protective equipment and NIOSH approved self-contained
Extinguishing Media:	Use dry chemical, CO2 or appropriate foam.

Calcium Oxide

Steps to Take in Case Material Is **Released or Spilled:**

Exposure to the spilled material may be severely irritating or toxic. Follow personal protective equipment recommendations found in Section 8 of this SDS. Personal protective equipment needs must be evaluated based on information provided on this sheet and the special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred, and the expertise of employees in the area responding to the spill. Never exceed any occupational exposure limits. Ventilate the contaminated area. Isolate area. Keep unnecessary personnel away. Avoid the generation of dusts during cleanup.

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. Vacuum or sweep up material and place in a disposal container

Section 7

Handling and Storage

Handling:

Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Readily absorbs moisture from air. Keep away from oxidizing materials and strong acids. Keep container dry. After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water Avoid contact with skin and eyes. Do not breathe dust. Use only in well-ventilated areas. Keep container tightly closed in a cool, well-ventilated place.

Storage: Storage Code:

White - Corrosive. Separate acids from bases; separate oxidizer acids from organic acids.

Section 8

Protection Information

	ACGI	Н	OSHA PEL		
Chemical Name Calcium Oxide	(TWA) 2 mg/m3 TWA	(STEL) N/A	(TWA) 5 mg/m3 TWA	(STEL) N/A	
Control Parameters					
Engineering Measures:	Local exhaust ventilation or other engineering controls are normally required when handling or using this product to avoid overexposure.				
Personal Protective Equipment (PPE):	Lab coat, apron, eye wa		•		
Respiratory Protection:	No respiratory protection required under normal conditions of use. Wear a NIOSH approved respirator if levels above the exposure limits are possible.				
Respirator Type(s):	NIOSH approved air purifying respirator with dust/mist filter.				
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. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work. When leaving work. Where use can result in skin contact, practice good personal hygiene. Use impervious gloves. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly.				
Gloves:	No information available				

Section 9

Physical Data

Formula: CaO Molecular Weight: 56.08 Appearance: White to off-white Powder Odor: No data available Odor Threshold: No data available pH: 12.5 (saturated solution) Melting Point: 2570 C Boiling Point: 2850 C Flash Point: No data available Flammable Limits in Air: N/A

Vapor Pressure: 0 hPa at 20 °C Evaporation Rate (BuAc=1): N/A Vapor Density (Air=1): N/A Specific Gravity: 3.2-3.4 Solubility in Water: Slightly 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: **Chemical Stability:**

Reactivity Data

No data available Stable under normal conditions.

Conditions to Avoid: Incompatible Materials: Hazardous Decomposition Products: Hazardous Polymerization: Exposure to moisture Acids Calcium Oxides Will not occur

Section 11

Toxicity Data

Routes of Entry Symptoms (Acute): Delayed Effects:	N/A No data available No data available							
Acute Toxicity: Chemical Name No data available		CAS Number 1305-78-8	Oral LD5 Not determine			nhalation LC50 ot determined		
Carcinogenicity: Chemical Name No data available		CAS Number 1305-78-8	IARC Not listed	N Not listed		OSHA ot listed		
Chronic Effects: Mutagenicity: Teratogenicity: Sensitization: Reproductive: Target Organ Effects: Acute: Chronic:	ity: No evidence of a mutagenic effect. icity: No evidence of a teratogenic effect (birth defect). ion: No evidence of a sensitization effect. tive: No evidence of negative reproductive effects. gan Effects: See Section 2							
Section 12		Ec	cological D	ata				
Overview: Mobility: Persistence: Bioaccumulation: Degradability: Other Adverse Effect:	Slight ecological hazard. In high concentrations, this product may be dangerous to plants and/or wildlife. No data No data No data No data S: No data							
Chemical Name Calcium Oxide	CAS NumberEco Toxicity1305-78-896 HR LC50 CYPRINUS CARPIO 1070 MG/L [STATIC]							
Section 13		Disp	osal Inforn	nation				
Disposal Methods: Waste Disposal Code	contact a permitted waste disposer (TSD) to assure compliance.							
Section 14 Transport Information								
Ground - DOT Proper Shipping Name:Air - IATA Proper Shipping Name:UN1910, Calcium Oxide, 8, IIIUN number: 1910 Class: 8 Packing group: III Proper shipping name: Calcium oxide								
Section 15 Regulatory Information								
TSCA Status:	TSCA Status: All components in this product are on the TSCA Inventory.							
Chemical Name	CAS Number	§ 313 Name	§ 304 RQ	CERCLA RQ	§ 302 TPQ	CAA 112(2) TQ		

Additional Information

No data available	1305-78-8	No	No	No	No	No

Section 16

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