Safety Data Sheet

Lime Water

CAROLINA® www.carolina.com

Section 1

Product Description

Product Name: Recommended Use: Synonyms: Distributor: Lime Water Science education applications Calcium Hydroxide Solution 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 severe skin burns and eye damage. Causes serious eye damage.

GHS Classification:

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

Section 3

Composition / Information on Ingredients

Chemical Name	CAS #	<u>%</u>
Water	7732-18-5	99.86
Calcium Hydroxide	1305-62-0	0.14

Section 4

First Aid Measures

Emergency and First Aid Procedures 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

Extinguishing Media:	Use media suitable to extinguish surrounding fire.
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

Section 6

Spill or Leak Procedures

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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.

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. Wear protective gloves/protective clothing/eye protection/face protection. Store locked up. 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 Inf	ormation		
	ACGIH		OSHA PEL	
Chemical Name	(TWA)	<u>(STEL)</u>	(TWA)	<u>(STEL)</u>
Calcium Hydroxide	5 mg/m3 TWA	N/A	15 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable fraction)	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 wash		·	
Respiratory Protection:	Respiratory protection may be required to avoid overexposure when handling this product. General or local exhaust ventilation is the preferred means of protection. Use a respirator if general room ventilation is not available or sufficient to eliminate symptoms.			
Respirator Type(s):	None required where adequate ventilation is provided. If airborne concentrations are above the applicable exposure limits, use NIOSH/MSHA approved respiratory protection.			
Eye Protection:	Wear chemical splash goggles when handling this product. Have an eye wash station available.			
Skin Protection:	Avoid skin contact by wea equipment depending upo and replace at regular inte other exposed areas with work.	on conditions of us ervals. Clean prote	esistant gloves, an apron an se. Inspect gloves for chemi ective equipment regularly. ater before eating, drinking,	ical break-through Wash hands and
Gloves:	No information available			

Section 9

Physical Data

Formula: Ca(OH)2 (aq)	Vapor Pressure: No data available
Molecular Weight: No data available	Evaporation Rate (BuAc=1): No data available
Appearance: Cloudy (milky) Liquid	Vapor Density (Air=1): No data available
Odor: None	Specific Gravity: Approx. 1
Odor Threshold: No data available	Solubility in Water: Soluble
pH: 12.4	Log Pow (calculated): No data available
Melting Point: Estimated 0 C	Autoignition Temperature: No data available
Boiling Point: Estimated 100 C 100 C	Decomposition Temperature: No data available
Flash Point: No data available	Viscosity: No data available
Flammable Limits in Air: No data available	Percent Volatile by Volume: No data available

Section 10

Reactivity: Chemical Stability: **Conditions to Avoid: Incompatible Materials: Hazardous Decomposition Products:**

Reactivity Data

Not generally reactive under normal conditions. Stable under normal conditions. None known. Water-reactive materials, Strong acids **Calcium Oxides**

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Hazardous Polymeriza	tion:	Will not occur			
Section 11		Toxici	ty Data		
	Ingestion. Nausea, Diarrhea, (No data available	Coffee Ground Emesis	3		
Acute Toxicity: Chemical Name Water Calcium Hydroxide		CAS Number 7732-18-5 1305-62-0	Oral LD50 Oral LD50 Rat 90000 mg/kg Oral LD50 Rat	Dermal LD50	Inhalation LC50
,			7340 mg/kg Oral LD50 Mouse 7300 mg/kg		
Carcinogenicity: Chemical Name Calcium Hydroxide		CAS Number 1305-62-0	IARC Not listed	NTP Not listed	OSHA Not listed
Chronic Effects: Mutagenicity: Teratogenicity: Sensitization: Reproductive: Target Organ Effects: Acute: Chronic:	No evidence of a	teratogenic effect (birt sensitization effect. egative reproductive ef ble			
Section 12		Ε	cological Data		
Overview: Mobility: Persistence: Bioaccumulation: Degradability: Other Adverse Effects:	This mate Dissolved Bioconce No data		be harmful to the ecologie high mobility in soil. It d to occur.		ost soil types.
Chemical Name Water Calcium Hydroxide		7732-18-5	Eco Toxicity No data available 96 HR LC50 GAMBUSI	A AFFINIS 160 MG/L	. [STATIC]
Section 13		Disp	osal Informati	on	
Disposal Methods: Waste Disposal Code(s	C		with all applicable Feder ste disposer (TSD) to as		egulations. Always
Section 14		Trans	sport Informat	ion	
Ground - DOT Proper S			Air - IATA Proper S Not regulated for air		

Not regulated for transport by US DOT.

Not regulated for air transport by IATA.

Section 15

Regulatory Information

TSCA Status:

All components in this product are on the TSCA Inventory.

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Chemical Name	CAS Number	§ 313 Name	§ 304 RQ	CERCLA RQ	§ 302 TPQ	CAA 112(2) TQ
Calcium Hydroxide	1305-62-0	No	No	No	No	No

Section	16 Addi	Additional Information			
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available to us application of	on provided in this (Material) Safety Data Sheet representations. Carolina Biological Supply makes no representation the substance covered in the (Material) Safety Data	on or guarantee	ilation of data drawn directly from various sources e as to the suitability of this information to a particular		
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 A		
IARC	International Agency for Research on Cancer	TLV	Threshold Limit Value		
N/A	Not Available	TSCA IDLH	Toxic Substances Control Act Immediately dangerous to life and health		