

MILLER © CHEMICAL & FERTILIZER, LLC Safety Data Sheet

Section 1 – Chemical Product and Company Identification

Product Name: Lime Sulfur® Solution
Chemical Name: CaS_x
Common Name, Synonym: Inorganic salt solution
Material Uses: Agricultural Industry, Pesticide - Fungicide
Manufacturer/Manufactured For: Miller Chemical and Fertilizer, LLC
Phone: (717) 632-8921 FAX: (717) 646-1104 CHEMTREC: (800) 424-9300

Section 2 – Hazard Identification

2.1 Classification of the substance or mixture GHS Classification (29 CFR 1910.1200)

Acute Toxicity – Oral (Category 4) Acute Toxicity – Dermal (Category 4) Acute Toxicity – Inhalation (Category 4) Skin Irritation (Category 2) Eye Irritation (Category 2B)

2.2 Label elements

GHS Labeling Elements

Pictogram: Signal Word: Warning

Hazard Statements: Harmful if swallowed. Harmful in contact with skin. Harmful if inhaled. Causes skin irritation. Causes eye irritation.

Precautionary Statements: Do not eat, drink, or smoke when using this product. Avoid breathing dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Wear protective gloves/equipment. Contaminated clothing must not be allowed out of the workplace. If swallowed/inhaled: Call a poison center / doctor if you feel unwell. Rinse mouth. Remove person to fresh air and keep comfortable for breathing. If on skin: Wash with plenty of water. If skin irritation or rash occurs: Get medical attention. Wash contaminated clothing before reuse. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Dispose of contents/container in accordance with local/regional/national/international regulations.



Product Name: L	ime Sulfur®.	Solution
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	Section 3 – Hazards Identification			
Ingredient Name		CAS Number	%	
Calcium Polysulfide, CaS _x		1344-81-6	24-29	
PA Right to Know: This product contain This product contains the followin 13Title III of the Superfund Amenc corresponding CAS numbers and None	g chemicals subject to the i Iments and Reauthorization	n act of 1986 and 40		
S	ection 4 – First Aid Measu	res		
Immediately flush eyes with plenty of ensure flushing of entire surface. Call		es, while holding eye	lids apart to	
SKIN CONTACT Immediately flush skin with plenty of v clothing and shoes. Thoroughly clean INHALATION Remove to fresh air. If not breathing g is difficult give oxygen. Call a physicial INGESTION If swallowed, DO NOT induce vomiting water. If vomiting occurs spontaneous NEVER GIVE ANYTHING BY MOUTH TC	clothing and shoes before i give artificial respiration, pr n. g. Rinse mouth with water. sly, keep head bellow hips to AN UNCONSCIOUS PERSO	reuse. Call a physicia eferably mouth to m Dilute stomach cont to prevent breathing N. Call a physician im	n. outh. If breathing ents by drinking vomit into lungs.	
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Immediately flush skin with plenty of v clothing and shoes. Thoroughly clean INHALATION Remove to fresh air. If not breathing g is difficult give oxygen. Call a physicial INGESTION If swallowed, DO NOT induce vomiting water. If vomiting occurs spontaneous NEVER GIVE ANYTHING BY MOUTH TO Sec Flash Point (METHOD): Auto-Ignition: Flammable Limits: Extinguishing Media:	clothing and shoes before i give artificial respiration, pr n. s. Rinse mouth with water. sly, keep head bellow hips to AN UNCONSCIOUS PERSO tion 5 – Fire-Fighting Meas Not Available Not Available Not Flammable water ba Use alcohol foam, carbor halon when fighting fires	reuse. Call a physicia eferably mouth to m Dilute stomach cont to prevent breathing N. Call a physician im sures sed n dioxide, water fog,	n. outh. If breathing eents by drinking vomit into lungs. mediately! dry chemical, or	
Immediately flush skin with plenty of v clothing and shoes. Thoroughly clean INHALATION Remove to fresh air. If not breathing g is difficult give oxygen. Call a physician INGESTION If swallowed, DO NOT induce vomiting water. If vomiting occurs spontaneous NEVER GIVE ANYTHING BY MOUTH TO Sec Flash Point (METHOD): Auto-Ignition: Flammable Limits:	clothing and shoes before i give artificial respiration, pr n. g. Rinse mouth with water. sly, keep head bellow hips to AN UNCONSCIOUS PERSO tion 5 – Fire-Fighting Meas Not Available Not Available Not Flammable water ba Use alcohol foam, carbor	reuse. Call a physicia eferably mouth to m Dilute stomach cont to prevent breathing N. Call a physician im sures sed n dioxide, water fog, involving this mater	n. outh. If breathing eents by drinking vomit into lungs. mediately! dry chemical, or	



Section 6 – Accidental Release Measures

Personal precautions

Evacuate non-essential personnel, eliminate ignition sources, and wear protective equipment (See Section VIII). Shut off source of leak only if safe to do so. Wear respiratory equipment if exposure limits are exceeded.

Contain spill

Recover free product. To clean up residue, flush sparingly with water or use an absorbent. Avoid runoff to ground water, surface waters, and sewers. It may be necessary to remove contaminated soil. If product is flammable or combustible, use non-sparking tools. If required, notify state and local authorities.

Section 6 – Accidental Release Measures continued

Disposal Method

Solids must be disposed of in a permitted waste management facility. Recovered liquids may be reprocessed or incinerated. Incineration must be handled in a permitted facility. Dispose of material in accordance with all Federal, State and Local regulations. Local regulations may be more stringent than Federal or State.

Costion 7 - Handling and Changes			
Section 7 – Handling and Storage			
Handling:	•	not breathe vapor, mist,	ing. Wash thoroughly after handling. Do not or dust. Avoid prolonged or repeated contact
Storage:		ise only. Keep container c it of reach of children.	closed when not in use. Store in a cool dry
	Sect	ion 8 – Exposure Controls	s/Personal Protection
Engineering Controls: Mechanical: Mechanical ventilation is preferred.			
Respiratory P	spiratory Protection: Have self-contained breathing apparatus, positive pressure, MSHA/NIOSHA (approved or equivalent) available in case of spillage o equipment failure.		
Hydrogen Sulf	ide	OSHA <u>TWA STEL</u> 20 ppm (ceiling)	ACGIH <u>TLV STEL</u> 10 ppm (ceiling)



Eye Protection:	e Protection: Chemical goggles or face shield. Always wear eye protection when working with chemicals. Never wear contact lenses when working with chemicals.	
Skin Protection:	Rubber gloves. Clean protective body covering, rubber apron, and rubber boots.	
Work Hygienic Practices:	Avoid contact with skin, eyes, and clothing. After handling this product, wash hands before eating, drinking or smoking. If contact occurs, remove contaminated clothing. If needed, take First Aid action shown in Section IV. Launder contaminated clothing before use.	
Other Protective Equipment:	Safety shower, eye wash fountain, and washing facilities should be readily available.	
Section 9 – Physical and Chemical Properties		
Appearance: Odor: pH (aqueous approx. 5% in DV Boiling point/Boiling range: Freeze Point: Flash Point: Vapor Pressure (mmHg): Vapor Density (Air=1): Solubility in Water: Specific Gravity (H ₂ O=1 @ 4°C) Evaporation Rate (NA=1): Percent Volatile by Volume:	> 212°F < 0°F Not Determined Not Determined Not Determined Soluble	
	Section 10 – Stability and Reactivity	
Chemical Stability:	Stable	
Materials to Avoid:	Strong oxidizers and acids	
Hazardous Decomposition or Byproducts: Hydrogen sulfide and oxides of sulfur		
Hazardous Polymerization:	Will not occur	
	Section 11- Toxicological Information	
Toxicity Data:		



Inhalation: INH-Rat LC₅₀: 3.6 mg/L (4 hr. exposure) Acute Dermal: LD₅₀(Rabbit): > 2000 mg/kg Acute Oral Effects: LD₅₀(Rat): 820 mg/kg Chronic/Carcinogenicity: Not listed in NTP, IARC or by OSHA Mutagenicity: Data not available Reproduction: Data not available Teratogenicity: Data not available

Section 12 – Ecological Information

Ecotoxicity: Green Algae, EC₅₀: 16.4 mg/L Water Flea, EC₅₀: 13.7 mg/L Bluegill, LC₅₀: 52.9 mg/L Flathead Minnow, LC₅₀: 42.9 mg/L Rainbow Trout, LC₅₀: 8.8 mg/L

Section 12 – Ecological Information continued

Bioaccumulative potential: This product is not bioaccumulative **Other adverse effects:** None

Section 13 – Disposal Considerations

Disposal:	If uncontaminated, recover and reuse as product. If contaminated with other materials, the nature and extent of contamination may require use of specialized disposal methods. Consult local, county, state, or federal regulatory agencies for acceptable disposal procedures and disposal locations
Disposal Regulatory Requirements:	Consult local, county, state, or federal regulatory agencies for acceptable disposal procedures and disposal locations
Container Cleaning and Disposal:	Consult local, county, state, or federal regulatory agencies for acceptable disposal procedures and disposal locations

Section 14 – Transport Information

U.S. DEPARTMENT OF TRANSPORTATION: (Not Regulated by DOT) PROPER SHIPPING NAME: N/A PACKING GROUP: N/A HAZARD CLASS: N/A LABEL/PLACARD REQUIRED: N/A UN/NA No.: N/A

WATER TRANSPORTATION

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PROPER SHIPPING	NAME: N/A		
PACKING GROUP:	PACKING GROUP: N/A		
HAZARD CLASS: N	HAZARD CLASS: N/A		
LABEL/PLACARD REQUIRED: N/A UN/NA No.: N/A			
			AIR TRANSPORTATION
PROPER SHIPPING			
PACKING GROUP:	•		
HAZARD CLASS: N	•		
LABEL/PLACARD R	•		
UN/NA No.: N/A			
OTHER AGENCIES: N/	A		
SECTION 14 NOTES: This product is not considered a hazard			
	Section 15 – Regulatory Information		
RCRA Waste C State Regulations:	(EPCRA): Not applicable Code: Not applicable n 65: Not applicable EPA National Response Center (800) 424-8802		
	Section 16 – Other Information		
Preparation Date: 05/ Prepared By: Miller Cl Revision Date: Revision Notes: NOTICE TO READER:	hemical Regulatory Compliance Officer		
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