

BOSMAN GROUP (HK) LIMITED

MATERIAL SAFETY DATA SHEET

SECTION I - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Trade Name: Lime sulfur fungicide

MSDS Number: BG-021

Generic Name: Lime sulfur fungicide

Manufacturer: Bosman Group Limited

Date Issued: February 28, 2005

Manufacturer's Phone Number: 0086 21 63065878

SECTION II - COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	%	TLV	PEL
Calcium Polysulfide	1344-81-6	29	2 mg/m ³ (Skin)	2 mg/m ³ (Skin)
Inert ingredients	Mixture	71	N/A	N/A

Key: TLV = ACGIH, 8 hr. time weighted average (TWA); PEL = OSHA permissible exposure limit.

SECTION III - HAZARDS IDENTIFICATION

Emergency Overview: This product can be fatal if swallowed or absorbed through the skin. This product is corrosive to the skin because of its caustic alkaline nature and will cause irreversible eye damage and skin burns.

HMIS Rating: Health: 2

Fire: 0

Reactivity: 0

Personal Protection: F

Potential Health Effects:

Routes of Entry: Inhalation, skin contact, eye contact, ingestion.

Inhalation: Overexposure to mists may cause severe upper respiratory irritation. Symptoms are those of hydrogen sulfide.

Skin Contact: Product is an alkali and is corrosive to skin. Prolonged or repeated exposure may cause severe skin chemical burns, irritation and redness.

Eye Contact: Splashes or mists can cause irreversible eye damage with potential corneal injury.

Ingestion: Ingestion can be fatal. Signs and symptoms of toxicity may include headache, nausea, drowsiness, depressed respiration and tremors.

Medical Conditions Aggravated by Exposure: May cause upper respiratory irritation, and may aggravate preexisting respiratory conditions.

Carcinogenicity: Not listed by NTP or IARC. Not regulated as a carcinogen by OSHA.

SECTION IV - FIRST AID MEASURES

Inhalation: Move to an area free from risk of further exposure. Treat symptomatically if required. If breathing is difficult or irritation develops, Get Medical Attention Immediately.

Eye Contact: Flush with copious quantities of clean, clear, lukewarm water at low-pressure water for at least 15 minutes. Lift upper and lower eyelids and flush thoroughly. Seek medical attention.

Skin Contact: Wash affected areas thoroughly with soap and warm water immediately after use of this product. Do not attempt to neutralize with chemical agents.

Ingestion: Call a physician or poison control center immediately. Drink 1 or 2 glasses of milk, egg white or gelatin or large quantities of water. Do not induce vomiting. Do not induce vomiting or give anything by mouth to an unconscious person. See note to physician below.

Note to physician: Probable mucosal damage may contraindicate gastric lavage. For severe hydrogen sulfide poisoning, successful treatment has involved initial inhalation of amyl nitrite pearls for 15 to 30 seconds of each minute until 10 mls of a 3% solution of sodium nitrite can be administered intravenously at 2.5 to 5mls per minute.

SECTION V - FIREFIGHTING MEASURES

NFPA Rating: Health: 1 Fire: 0 Reactivity: 0 Other: 0

Flash point and Method: This product is non-flammable.

Extinguishing Method: Not required.

Fire or Explosion Hazards: This product will not burn.

Special Firefighting Procedures: Not applicable.

SECTION VI - ACCIDENTAL RELEASE MEASURES

Clean-up Procedures: Immediately dam or otherwise contain any spills. Use an absorbent material, such as kitty litter, to absorb material. Seal waste in a plastic bag for disposal.

Personal Precautions: If misty or vaporous conditions exist, wear a face mask approved for use with dusts and mists such as 3M 8511 N-95 or equivalent.

Environmental Precautions: Product is an effective and potent fungicide. Keep major spills from entering lakes and waterways.

SECTION VII - HANDLING AND STORAGE

Storage Temperature: Not affected by extremes of ambient temperature.

Shelf Life: One year.

Special Sensitivity: None.

Handling and Storage Precautions: Avoid eye contact and avoid breathing vapors if generated. Good housekeeping is recommended to prevent the contamination of clothing and footwear and the mis-application of this product. Trade Name Lilly Miller Dormant Spray for Disease, Lilly Miller Polysul MSDS

SECTION VIII - EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory Protection: If atmospheric conditions exceed exposure guidelines, wear a face mask approved for use with dusts and mists such as 3M 8511 N-95 or equivalent.

Eye Protection: Use safety glasses with side shields when mixing and using this product or other situations where there is potential for exposure to mists or vapors which could cause injury to the eyes.

Skin Protection: Waterproof gloves and long sleeved garments are a prudent precaution against excessive skin exposures.

Engineering Controls: Product is to be used out of doors with good ambient ventilation.

SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

Physical Form: Red/orange liquid

Odor: Pungent odor of rotten eggs

Vapor density: N/D

Solubility in Water: Soluble

Specific Gravity: 1.27

pH: 10.9

% Volatile by Weight (VOC): Nil

SECTION X - REACTIVITY

Stability : This is stable material.

Hazardous Polymerization: Will not occur.

Incompatibilities: Avoid contact with acids. Hydrogen sulfide gas will be generated, dangerous to inhale.

Decomposition Products: CO, CO₂ and oxides of sulfur may be formed under fire conditions.

SECTION XI - TOXICOLOGICAL/ECOLOGICAL INFORMATION

Ecological Concerns: This product is a strong, alkaline based fungicide. Keep undiluted product from entering rivers, lakes and streams. This product may be harmful to aquatic fish and plant life.

SECTION XII - DISPOSAL CONSIDERATIONS

Waste Disposal Method: Rinse container thoroughly and securely wrap original container in several layers of newspaper and discard in the trash.

SECTION XIII - TRANSPORTATION INFORMATION

DOT Shipping Name: Not regulated

Technical Shipping Name: None

DOT Hazard Class: None

Revised: February 28, 2005

DOT Label: None

DOT Placard: None

UN/NA Number: None

SECTION XIV - REGULATORY INFORMATION

OSHA Status: This product is regulated under OSHA.

EPA Registration Number: 802-73

TSCA Status: All applicable chemicals are registered under TSCA.

CERCLA Reportable Quantity: None.

SARA Title III:

Section 302, Extremely Hazardous: N/A

Section 311/312 Hazard Categories: N/A.

Section 313 Toxic Chemicals: N/A

RCRA Status: Not regulated under RCRA

SECTION XV - APPROVALS

Reason for issue: Revised shelf life.

Approval Date: February 28, 2005

Supersedes Date May 17, 2001

SECTION XVI - DISCLAIMER

As of the date of this document, the foregoing information is believed to be accurate and is provided in good faith to comply with applicable federal and state laws. However, no warranty or representation of law or fact, with respect to such information, is intended or given.