Grochem Lime Sulphur™

Section 1: Identification of the Substance or Mixture and of the Supplier

Product name: Grochem Lime Sulphur

Recommended use: Used as a Fungicide, Acaricide, Insecticide and Blossom Thinner

Company details:
Grochem (AgriNova New Zealand Limited)
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Porirua
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Email: grochem@grochem.com

Emergency telephone:
New Zealand
0800 CHEMCALL – 24 hours
(0800 243 6225)

Australia 1800 127 406
Other locations +64 4 917 9888

or
The National Poisons Centre
0800 POISON (0800 764 766)

Date of preparation: 31 October 2017

Section 2: Hazards Identification

Hazard classification

Dangerous Goods — Not a dangerous good for transport.

Hazardous substances (HSNO):
6.3A (WARNING: Causes skin irritation)
8.3A (DANGER: Causes serious eye damage)
9.1D (Toxic to aquatic life)
9.3C (Harmful to terrestrial vertebrates)

Section 3: Composition/Information on Ingredients

Classification & type:

Material	CAS No.	Proportion (%w)
Calcium Phosphates	1344-81-6	30
Non-hazardous components		to 100%

Section 4: First Aid Measures

Symptoms of exposure: No adverse health effects expected if the product is handled in accordance with this SDS and the product label. Symptoms that may arise if the product is mishandled are:

If Swallowed	Burns oral passages.
If in Eyes	Causes serious eye damage.
If on Skin	Causes skin irritation.
If Inhaled	Can cause irritation of the airways. Toxic vapour if mixed with acid.

First aid actions: If medical advice is needed, have product container or label at hand.

If Swallowed	Do not induce vomiting. Give moderate quantities of milk or water to drink. Contact a doctor or hospital immediately.
If in Eyes	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTRE or doctor/physician.
If on Skin (or Hair)	Wash with plenty of soap and water. If skin irritation occurs, get medical advice/ attention. Take off contaminated clothing and wash before reuse.
If Inhaled	Remove to fresh air and sit in a comfortable position. Give milk or water to drink if conscious.

Workplace facilities: Eyewash and safety shower.

Notes for medical personnel: For severe hydrogen sulphide poisoning; successful treatment has involved initial inhalation of amyl nitrate pearls for 15 to 30 seconds for each minute until 10ml of 3% solution of sodium nitrite can be administered intravenously at 2.5ml to 5ml per minute. The nitrite-induced methemoglobin is thought to bind the toxic hydrosulphide ion.

Section 5: Fire Fighting Measures

Type of Hazard: Not flammable. Electrical conductor.

HAZCHEM code: Not allocated.

Combustion products: May release Hydrogen Sulphide.

Extinguishing media & methods: Use water fog/fine spray, foam or dry chemical. Contain runoff and prevent contamination of waterways.

Recommended protective clothing: Use self-contained breathing apparatus. Wear chemically resistant gloves.

Section 6: Accidental Release Measures

Personal protection: See Section 8.3 for appropriate PPE.

Containment and clean up: Lime Sulphur is an electrical conductor – Isolate power sources.
Prevent material entering waterways. Collect with inorganic absorbent material, do not use sawdust or paper.

Special requirements: See Section 13 for instructions for the disposal of waste/contaminated material.

Section 7: Handling and Storage

Subsection 1: **Handling**

Handling practices: Wear appropriate PPE as detailed in Section 8.3.
Avoid contact with material.
Avoid inhalation of spray or mist.
Read label before use.
Keep out of reach of children.
Wash thoroughly after handling

Subsection 2: **Storage**

Site requirements: Store tightly sealed in a cool place. Keep away from acids and foodstuffs.

Packaging: Store in original alkali resistant packaging.

Section 8: Exposure Controls/Personal Protection

Subsection 1: **Workplace Exposure Guidelines (may also be considered in section 2)**

Workplace exposure standards: No exposure limits have been set at this time.

Exposure standards outside the workplace: No exposure limits have been set.

Subsection 2: **Engineering Controls**

Exposure control measures: Use in a well ventilated area. Avoid breathing mist or vapour.

Subsection 3: **Personal Protective Equipment (PPE)**

Detail specifications for equipment: Wear eye/face protection. Use impervious gloves.

General hygiene: Wash thoroughly after handling.

Section 9: Physical and Chemical Properties

Appearance	Clear red orange liquid	**pH**	10.5 - 11.5
Odour	Rotten egg	**Boiling point (degC)**	Not available
Specific gravity (kg/L)	1.22 - 1.24	**Freezing point (degC)**	Not available
Solubility	Infinite (water)	**Flammability Information**	Not flammable
Vapour density	Not available	**Flashpoint (degC)**	N/A
Vapour pressure	Not available		

Section 10: Stability and Reactivity

Stability of substance:	Breaks down with air. Reacts with acids.
Conditions to avoid:	Reaction products with acid may be explosive when dry.
Material to avoid:	Acids and metal salts.
Hazardous decomposition products:	Hydrogen sulphide – flammable and toxic.
Hazardous polymerization:	Will not occur.

Section 11: Toxicological Information

Data and interpretation:	No relevant data has been identified. See Section 2 for general hazard information.

Section 12: Ecological Information

Potential environmental interactions:	
Data organisation:	No relevant data has been identified.
Environmental risk phrases:	Harmful to terrestrial vertebrates and toxic to aquatic life. Avoid release to the environment.

Section 13: Disposal Considerations

Product disposal:	Use as directed on the label or dispose of at an approved landfill.
Container disposal:	Triple rinse container into spray tank. Crush and dispose of at an approved landfill.

Section 14: Transport Information

UN Number:	Not allocated
DG Class and Subsidiary Group:	Not allocated
Proper shipping name:	N/A
Packing group:	Not allocated
HAZCHEM code:	Not allocated
Special precautions:	Do not carry more than 1L on a passenger service vehicle.

Section 15: Regulatory Information

Regulatory status:	Registered pursuant to the ACVM Act 1997. No P7532. See www.foodsafety.govt.nz for registration conditions. Approved under the HSNO Act 1996, HSR000502. See www.epa.govt.nz for approval conditions.
HSNO controls:	Trigger quantities for this substance:
SDS must be available for	0.1L
Signage	1000L
Emergency plan	10,000L
Bunding	10,000L

Section 16: Other Information

Revision due:	31 October 2022.
Additional information:	Directions for use are found on the product label.

Glossary:

ACVM	Agricultural Compounds and Veterinary Medicines (in relation to Group or Act 1997)
CAS	Chemical Abstract Services Number, used to uniquely identify chemical compounds
EPA	Environmental Protection Authority
HSNO	Hazardous Substances and New Organisms (legislation 1996)
PPE	Personal Protective Equipment

This SDS summarises our best knowledge of the health and safety hazard information available for this product and how to safely handle and use it. Since the use of this information and the conditions of the use of this product are not under the control of Grochem, it is the user's responsibility to determine conditions of safe use of the product.