

Lime Sulphur

HAZARDOUS, NON-DANGEROUS GOODS

1. MATERIAL AND SUPPLY COMPANY IDENTIFICATION

Product name: Lime Sulphur

Recommended use: Fungicide, Acaricide, Insecticide and Blossom Thinner

Supplier: Grochem (AgriNova New Zealand Limited)

Company No.: 9429036821501

Street Address: 15 Sunlight Grove

Porirua

New Zealand

Telephone: +64 4 237 0905

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)

2. HAZARDS IDENTIFICATION

This material is hazardous according to the criteria of EPA New Zealand GHS 7.

HSNO Approval Code: HSR000502



Signal Word: Danger

Hazard Classifications: Skin Corrosion/Irritation - Category 2

Serious Eye Damage/Irritation - Category 1

Long Term Hazards to the Aquatic Environment - Category 4

Hazardous to Terrestrial Vertebrates

Hazard Statements: H315 - Causes skin irritation.

H318 - Causes serious eye damage.

H413 - May cause long lasting harmful effects to aquatic life.

H433 - Harmful to terrestrial vertebrates.

Prevention Precautionary Statements: P102 - Keep out of reach of children.

P103 - Read carefully and follow all instructions.

P264 - Wash hands, face and all exposed skin thoroughly after handling.

P273 - Avoid release to the environment.

 ${\tt P280-Wear\ protective\ gloves/protective\ clothing\ including\ eye/face\ protection}.$



Response Precautionary Statements: P101 - If medical advice is needed, have product container or label at hand.

P302+P352 - IF ON SKIN: Wash with plenty of water and soap.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P310 - Immediately call a POISON CENTER/doctor/insert appropriate source of

emergency medical advice.

P332+P313 - If skin irritation occurs: Get medical advice/attention.

P362 - Take off contaminated clothing.

Storage Precautionary Statement: Not allocated.

Disposal Precautionary Statement: P501 - Dispose of contents/container in accordance with local, regional, national and

international regulations.

DANGEROUS GOOD CLASSIFICATION

Not classified as Dangerous Goods by the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail" and the "New Zealand NZS5433: Transport of Dangerous Goods on Land".

3. COMPOSITION INFORMATION

CHEMICAL ENTITYCAS NOPROPORTIONCalcium Phosphates1344-81-630% (w/w)Ingredients determined to be Non-HazardousBalance100%

4. FIRST AID MEASURES

If poisoning occurs, contact a doctor or Poisons Information Centre (Phone Australia 131 126, New Zealand 0800 764 766).

Inhalation: Remove victim from exposure - avoid becoming a casualty. Remove contaminated

clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. Seek medical advice if

effects persist.

Skin Contact: If skin or hair contact occurs, immediately remove contaminated clothing and flush skin

and hair with running water. Continue flushing with water until advised to stop by the Poisons Information Centre or a Doctor; or for 15 minutes and transport to Doctor or

Hospital.

Eye contact: Immediately irrigate with copious quantities of water for 15 minutes. Eyelids to be

held open. Remove clothing if contaminated and wash skin. Urgently seek medical

assistance. Transport to hospital or medical centre.

Ingestion: Rinse mouth with water. If swallowed, do NOT induce vomiting. Give a glass of water to

drink. Never give anything by the mouth to an unconscious patient. If vomiting occurs

give further water. Seek medical advice.

PPE for First Aiders: Wear overalls, gloves, safety glasses. Available information suggests that gloves made

from butyl rubber should be suitable for intermittent contact. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other

protective equipment before storing or re-using.

Notes to physician: Treat symptomatically. Can cause corneal burns.

5. FIRE FIGHTING MEASURES

Hazchem Code: Not applicable.

Suitable extinguishing media: If material is involved in a fire use water fog (or if unavailable fine water spray), alcohol

resistant foam, standard foam, dry agent (carbon dioxide, dry chemical powder).

Specific hazards: Non-combustible material.

Firefighting further advice: Not applicable.



6. ACCIDENTAL RELEASE MEASURES

SMALL SPILLS: Wear protective equipment to prevent skin and eye contamination. Avoid inhalation of

vapours or dust. Wipe up with absorbent (clean rag or paper towels). Collect and seal in

properly labelled containers or drums for disposal.

LARGE SPILLS: Clear area of all unprotected personnel. Slippery when spilt. Avoid accidents, clean up

immediately. Wear protective equipment to prevent skin and eye contamination and the inhalation of vapours. Work up wind or increase ventilation. Contain - prevent run off into drains and waterways. Use absorbent (soil, sand or other inert material). Collect and seal in properly labelled containers or drums for disposal. If contamination of crops,

sewers or waterways has occurred advise local emergency services.

Dangerous Goods - Initial Emergency Response Guide No:

Not applicable.

7. HANDLING AND STORAGE

Handling: Avoid eye contact and skin contact. Avoid inhalation of vapour, mist or aerosols.

Store in a cool, dry, well-ventilated place and out of direct sunlight. Store away from

foodstuffs. Store away from incompatible materials described in Section 10. Store away from sources of heat and/or ignition. Keep container standing upright. Keep

containers closed when not in use - check regularly for leaks.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

National occupational exposure limits: No value assigned for this specific material by WorkSafe New Zealand.

Biological Limit Values: As per the WorkSafe New Zealand the ingredients in this material do not have a

Biological Limit Allocated.

Engineering Measures: Natural ventilation should be adequate under normal use conditions.

Personal Protection Equipment: OVERALLS, GLOVES, SAFETY GLASSES.

Personal protective equipment (PPE) must be suitable for the nature of the work and any hazard associated with the work as identified by the risk assessment conducted. Wear overalls, gloves, safety glasses. Available information suggests that gloves made from butyl rubber should be suitable for intermittent contact. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other

protective equipment before storing or re-using.

Hygiene measures: Keep away from food, drink and animal feeding stuffs. When using do not eat, drink or

smoke. Wash hands prior to eating, drinking or smoking. Avoid contact with clothing. Avoid eye contact and skin contact. Avoid inhalation of vapour, mist or aerosols. Ensure that eyewash stations and safety showers are close to the workstation location.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form:Clear liquidSolubility:Soluble in waterColour:Red orangeSpecific Gravity:1.22 - 1.24Odour:Rotten eggpH:10.5 - 11.5

10. STABILITY AND REACTIVITY

Chemical stability: This material is thermally stable when stored and used as directed.

Conditions to avoid: Elevated temperatures and sources of ignition.

Incompatible materials: Oxidising agents.

Hazardous decomposition products: Oxides of carbon and nitrogen, smoke and other toxic fumes.

Hazardous reactions: No known hazardous reactions.



11. TOXICOLOGICAL INFORMATION

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

ACUTE EFFECTS

Inhalation: Material may be an irritant to mucous membranes and respiratory tract.

Skin contact: Contact with skin will result in irritation.

Ingestion: Swallowing can result in nausea, vomiting and irritation of the gastrointestinal tract.

Eye contact: A severe eye irritant. Corrosive to eyes: contact can cause corneal burns.

Contamination of eyes can result in permanent injury.

ACUTE TOXICITY

Inhalation: This material has been classified as not hazardous for acute inhalation exposure.

Acute toxicity estimate (based on ingredients): $LC_{50} > 20.0 \text{ mg/L}$ for vapours or

 $LC_{50} > 5.0 \text{ mg/L}$ for dust and mist.

Skin contact: This material has been classified as not hazardous for acute dermal exposure.

Acute toxicity estimate (based on ingredients): $LD_{50} > 2,000 \text{ mg/Kg bw}$

Ingestion: This material has been classified as not hazardous for acute ingestion exposure.

Acute toxicity estimate (based on ingredients): $LD_{50} > 2,000 \text{ mg/Kg bw}$

Corrosion/Irritancy: Eye: this material has been classified as a Category 1 Hazard (irreversible effects to

eyes). Skin: this material has been classified as a Category 2 Hazard (reversible effects

to skin).

Sensitisation: Inhalation: this material has been classified as not a respiratory sensitiser.

Skin: this material has been classified as not a skin sensitiser.

Aspiration hazard: This material has been classified as not an aspiration hazard.

Specific target organ toxicity (single exposure):

This material has been classified as not a specific hazard to target organs by a single

exposure.

CHRONIC TOXICITY

Mutagenicity: This material has been classified as non-hazardous.

Carcinogenicity: This material has been classified as non-hazardous.

Reproductive toxicity (including via lactation):

This material has been classified as non-hazardous.

Specific target organ toxicity (repeat exposure):

. This material has been classified as non-hazardous.

12. ECOLOGICAL INFORMATION

Avoid contaminating waterways.

Acute aquatic hazard:This material has been classified as not hazardous for acute aquatic exposure.

Acute toxicity estimate (based on ingredients): > 100 mg/L

Chronic aquatic hazard: This material has been classified as a Category Chronic 4 Hazard.

Ecotoxicity in the soil environment: This material has been classified as non-hazardous.

Chronic aquatic hazard: This material has been classified as a Category Chronic 4 Hazard.

Ecotoxicity in the soil environment: This material has been classified as non-hazardous.

Ecotoxicity to terrestrial vertebrates: This material has been classified as harmful to terrestrial vertebrates.

Ecotoxicity to terrestrial invertebrates: This material has been classified as non-hazardous.

Ecotoxicity:No information available.Persistence and degradability:No information available.Bioaccumulative potential:No information available.Mobility:No information available.



13. DISPOSAL CONSIDERATIONS

Avoid contamination of any water supply with chemical or empty container.

Persons conducting disposal, recycling or reclamation activities should ensure that appropriate personal protection equipment is used, see "Section 8. Exposure Controls and Personal Protection" of this SDS.

If possible, material and its container should be recycled. If material or container cannot be recycled, dispose in accordance with local, regional, national and international Regulations.

14. TRANSPORT INFORMATION

ROAD AND RAIL TRANSPORT

Not classified as Dangerous Goods by the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail" and the "New Zealand NZS5433: Transport of Dangerous Goods on Land".

MARINE TRANSPORT

Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

AIR TRANSPORT

Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

15. REGULATORY INFORMATION

This material/constituent(s) is covered by the following requirements:

NZ EPA Status: All components of this product are listed on or exempt from the New

Zealand Inventory of Chemical (NZIoC).

HSNO Approval Code: HSR000502

16. OTHER INFORMATION

Reason for issue: 5 Yearly Revision

This information was prepared in good faith from the best information available at the time of issue. It is based on the present level of research and to this extent we believe it is accurate. However, no guarantee of accuracy is made or implied and since conditions of use are beyond our control, all information relevant to usage is offered without warranty. The manufacturer will not be held responsible for any unauthorised use of this information or for any modified or altered versions.

If you are an employer, it is your duty to tell your employees, and any others that may be affected, of any hazards described in this sheet and of any precautions that should be taken.

Safety Data Sheets are updated frequently. Please ensure you have a current copy.

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.