

SECTION 1: Identification

Product name: CalciGro®

Chemical Name: Seaweed Amino Acid Calcium

Recommended Use: A foliar seaweed extract liquid calcium fertiliser for the correction of calcium deficiencies in horticultural crops, viticulture, vegetables and fruit trees.

Restriction of use: Refer to section 15

Company: Grosafe Chemicals Ltd.

Address: 20 Jean Batten Drive, Mt Maunganui. (P.O. Box 14450 Tauranga, 3143)

Email: info@grosafe.co.nz

Telephone: 0800 220 002

Emergency Telephone Numbers: 0800 CHEMCALL (0800 243622)
The National Poisons Centre, 0800 POSITION (0800 764 766)

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SECTION 2: Hazards Identification

This substance is classified as hazardous according to the Hazardous Substances (Hazard Classification) Notice 2020

EPA Approval No: HSR002571 (Fertilisers (Subsidiary Hazard) Group Standard 2020)

Pictograms



Signal word: **WARNING**

HSNO Classification

Skin Irritant 2
Eye Irritant 2

Hazard Code

H315
H319

Hazard Statement

Causes skin irritation
Causes serious eye irritation

Prevention code

P280

P264

Prevention Statement

Wear protective gloves/protective clothing/eye protection/face protection.

Wash hands and exposed skin thoroughly after handling

Response code

P302+P352
P332+P313
P263+P364
P305+P351+P338

P377+P313

Response Statement

IF ON SKIN: Wash with plenty of soap and water.

If skin irritation occurs: Get medical advice/attention

Take off contaminated clothing and wash it before reuse.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical attention.

SECTION 3: Composition / information on ingredients

Ingredients	CAS Number	Content (% w/w)
Calcium	7440-70-2	10-30%
Trade secret ingredients that do not independently trigger hazard classifications	-	To balance

SECTION 4: First Aid Measures

Routes of exposure:

If swallowed	Rinse mouth. Call a POISON CENTRE or doctor if you feel unwell.
If on Skin	Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention
If in Eyes	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.
If inhaled	Remove person to fresh air and keep comfortably for breathing. Call a POISON CENTRE or doctor if you feel unwell.

Most important symptoms and effects, both acute and delayed:

If on skin: Causes skin irritation.

If in eyes: Causes serious eye irritation.

Note to physician: Treat symptomatically.

SECTION 5: Fire Fighting Measures

Hazard type	Non-hazardous
Fire/explosion Hazard	Not applicable
Polymerisation	Not applicable
Hazards from combustion products	Not applicable
Suitable extinguishing media	Not applicable
Unsuitable extinguishing media	Not applicable
Precautions for firefighters and special protective clothing	Not applicable
Specific Methods	Not applicable
HAZCHEM CODE	Not applicable

SECTION 6: Accidental Release Measures

Wear personal protective equipment (as detailed in Section 8).

Environmental precautions:

Prevent further leakage or spillage if safe to do so. Prevent entry of chemical or used/damaged containers into sewers, drains, streams, or waterways. If necessary, inform the police and the Regional Council.

Methods and material for containment and cleaning up:

Prevent liquid from entering sewers, waterways, or low areas by bunding or dyking. Absorb spills with an inert material (such as vermiculite, earth, sand or synthetic absorbent substance) and place

into labelled containers for disposal. Wash area with water and alkaline detergent. Then absorb any remaining liquid with further inert material. Dispose of the waste safely in an approved facility. (See section 13 for disposal instructions).

SECTION 7: Handling and Storage

Precautions for Handling:

- Wear protective gloves/protective clothing/eye protection/face protection.
- Wash hands and exposed skin thoroughly after handling.

Precautions for Storage:

- Keep out of reach of children.
- Store in original, tightly closed container away from foodstuffs.
- Store in a cool dry well ventilated area avoiding sunlight and extreme temperatures.

SECTION 8: Exposure Control / Personal Protection

Workplace exposure standards (provided for guidance only)

Substance	TWA ppm mg/m ³	STEL ppm mg/m ³
No biological limits applicable	-	-

Workplace Exposure Standard – Time Weighted Average (WES-TWA). The time-weighted average exposure standard designed to protect the worker from the effects of long-term exposure. Workplace Exposure Standard – Short-Term Exposure Limit (WESSTEL). The 15-minute average exposure standard. Applies to any 15- Minute period in the working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue change, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to the WES- Product Name: Phoenix Fungicide Issued by: Technical Compliance Consultants (NZ) Ltd Date of SDS: 28 May 2019 Tel: 64 9 475 5240 www.techcomp.co.nz Page 4 TWA; both the short-term and time-weighted average exposures apply. Workplace Exposure Standards and Biological Exposure Indices NOV 2017 9TH EDITION.

Engineering controls

Use only outdoors or in a well-ventilated area.

Personal Protective Equipment

Skin	Chemical resistant gloves (e.g., nitrile), overalls and boots.
Eyes	Safety goggles or face shield. Facilities storing or utilizing this material should be equipped with an eyewash facility.
General	Wash hands and exposed skin with soap and water after handling. Take of contaminated clothing and wash it before reuse.

SECTION 9: Physical and Chemical Properties

Appearance	Dark brown liquid
Odour	No data
Odour Threshold	No data
pH	3-5
Melting point/freezing point	No data
Boiling point	No data
Flash point	Not applicable
Flammability	Not applicable
Upper and lower flammability or explosive limits	Not applicable

Vapour pressure	No data
Vapour density	No data
Specific gravity	1.3-1.4
Solubility	Soluble in water
Partition Coefficient: n-octanol/water	No data
Auto-ignition temperature	No data
Decomposition temperature	No data
Kinematic viscosity	No data
Particle characteristics	Not applicable

SECTION 10: Stability and Reactivity

Stability of substance	Stable under normal storage conditions.
Conditions to avoid	Not applicable
Incompatible materials	Not applicable
Hazardous decomposition products	Not applicable

SECTION 11: Toxicological Information

Acute toxicity - oral	Not applicable
Acute toxicity - dermal	Not applicable
Acute toxicity - inhalation	Not applicable
Skin corrosion/irritation	Causes skin irritation.
Serious eye damage/eye irritation	Causes serious eye irritation.
Respiratory or skin sensitization	Not applicable
Germ cell mutagenicity	Not applicable
Carcinogenicity	Not applicable
Reproductive toxicity	Not applicable
Specific target organ toxicity – single exposure	Not applicable
Specific target organ toxicity – repeated exposure	Not applicable
Aspiration hazard	Not applicable

SECTION 12: Ecological Information

Ecotoxicity (abamectin)	
Fish	Not applicable
Crustaceans	Not applicable
Aquatic plants	Not applicable
Algae	Not applicable
Birds	Not applicable
Earthworm	Not applicable
Bees	Not applicable

Persistence and degradability	No data
Potential to bioaccumulate	No data
Mobility in soil	No data
Other adverse effects	Not applicable

SECTION 13: Disposal Considerations

Product: Dispose of this product only by using according to the label, or at a suitable landfill.

Container: Triple rinse empty container and add rinsate to spray tank. Submit clean empty container to an Agrecovery® depot for recycling. Alternatively, puncture and dispose of at an approved landfill.

Avoid contamination of any water supply with product or empty container



Disposal methods to avoid. Do not burn empty container. Do not allow product or empty container to enter waterways.

SECTION 14: Transport Information

This product is not classified as a Dangerous Good for transport in NZ; NZS 5433

Road and Rail Transport: Not classified as a dangerous good for transport

Air Transport: Not classified as a dangerous good for transport

Marine Transport: Not classified as a dangerous good for transport

SECTION 15: Regulatory Information

This substance is hazardous according to the *Hazardous Substances (Hazard Classification) Notice 2020*

Hazard Classifications: Skin Irritant 2, Eye Irritant 2

HSW (HS) Regulations 2017	Trigger Quantity
Certified Handler	Not applicable
Location Certificate	Not applicable
Signage Trigger Quantity (Schedule 3)	Not applicable
Emergency Response Plan (Schedule 5)	Not applicable
Secondary Containment (Schedule 16)	Not applicable
Tracking (Schedule 26)	Not applicable
Controls	
Record Keeping	Not applicable
Qualifications	Not applicable
HSNO Additional controls	Do not apply onto or into water.

Tolerable Exposure Level (TEL) None set
Environmental Exposure Limit (EEL) None set

ACVM Approval Number Exempt from registration

SECTION 16: Other Information

Glossary

ACVM	Agricultural Compounds and Veterinary Medicines Act 1997
EC50	Median effective concentration
EEL	Environmental exposure limit
EPA	Environmental Protection Authority
HSNO	Hazardous Substances and New Organisms Act 1996
HSW	Health and Safety at Work Act 2015
HSW (HS) Regulations	Health and Safety at Work (Hazardous Substances) Regulations 2017
LC50	Lethal concentration that will kill 50% of the test organism
LD50	Lethal dose to kill 50% of the test organism
WES	Workplace exposure Limit

References

1. EPA Hazardous substances (Safety Data Sheets) Notice 2017
2. Workplace Exposure Standards and Biological Exposure Indices Nov 2017 edition
3. Assigning a hazardous substance to a HSNO approval (Aug 2013)
4. Transport of Dangerous Goods ON Land NZS 5433:2012
5. HSW (Hazardous Substances) Regulations 2017
6. United States Environmental Protection Agency Memorandum USEPA PC Code: 122804

Disclaimer

This document has been issued by Grosafe Chemicals Limited and serves as their Safety Data Sheet (SDS). It is based on information concerning the product which is held by Grosafe Chemicals Ltd or has been obtained from third party sources and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. While Grosafe Chemicals Ltd has taken all due care to include accurate and up-to-date information in this SDS, it does not provide any warranty as to the accuracy or completeness. As far as lawfully possible, Grosafe Chemicals Ltd accept not liability for any loss, injury, or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of the reliance on the information contained in this SDS. The information herein is given in good faith, but no warrant, express or implied, is made.

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