

Encal™

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

Product name Encal

Recommended use Liquid Fertiliser

Company details Grochem (AgriNova New Zealand Limited)

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or

The National Poisons Centre 0800 POISON (0800 764 766)

Date of preparation 17 January 2018

Section 2: Hazards Identification

Hazard classification (Transport): Not a dangerous good for transport.

Hazardous substances (HSNO):6.1D (WARNING: Harmful if swallowed)
6.3B (WARNING: Causes mild skin irritation)

6.4A (WARNING: Causes serious eye irritation)

6.8B (DANGER: Suspected of damaging fertility or the unborn child)

9.3B (Toxic to terrestrial vertebrates)







Precautionary statement(s) P101 If medical advise is needed have product container or label at hand

P102 Keep out of reach of children

P201 Obtain special instructions before use

P202 Do not handle until all safety instructions have been read and understood

P264 Wash thoroughly after handling

P270 Do not eat, drink or smoke when using this product

P280 Wear protective gloves, eye/face protection and protective clothing

P281 Use personal protective equipment as required

P312 Call a POISON CENTRE or doctor/physician if you feel unwell

P391 Collect spillage P405 Store locked up

P501 Dispose of contents/container in accordance with relevant regulations



Section 3: Composition/Information on Ingredients

Classification & type:

Material CAS No. Proportion (%w)

 Boric Acid
 10043-35-3
 0.3

 Calcium Nitrate
 13477-34-4
 <65</td>

 Non-Hazardous components
 to 100%

Section 4: First Aid Measures

First aid actions: If exposed, concerned or if symptoms persist, get medical advice/attention. If medical advice

is needed, have product container or label at hand.

If Swallowed Rinse mouth. Call a POISON CENTRE or doctor/physician if you feel unwell.

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 advice/ attention

If on Skin Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/ attention

If Inhaled Remove to fresh air and keep at rest in a position comfortable for breathing.

Workplace facilities: Eyewash and safety shower

Notes for medical personnel: Treat symptomatically.

Section 5: Fire Fighting Measures

Type of hazard Contains oxidising material may intensify fire when dried to crystal.

HAZCHEM code: N/A

Combustion products: Not known, include nitrogen, carbon and various metal oxides.

Extinguishing media & methods: Keep container cool. Use methods appropriate to combustible material involved. Waste

water should be contained and collected.

Recommended protective clothing: Fire fighters to wear self-contained breathing apparatus.

Section 6: Accidental Release Measures

Personal protection See Section 8.3 for appropriate PPE.

Containment and clean up: Contain and collect spillage. Dispose of contaminated material at an approved landfill or use

as prescribed on the label.

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.

Do not handle until all safety precautions have been read and understood.

Do not breathe mist or spray. Keep out of reach of children. Read label before use.

Subsection 2 Storage

Site requirements Store locked up in a cool dry place away from foodstuffs.



Section 8: Exposure Controls/Personal Protection

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

Workplace exposure standards
No exposure standards have been set for this substance.

Subsection 2: Engineering Controls

ventilation or while wearing respirator.

Subsection 3: Personal Protective Equipment (PPE)

Detail specifications for equipment Wear eye/face protection, gloves and protective clothing.

General hygiene Do not eat, drink or smoke while using this product.

Contaminated work clothing should not be allowed out of the workplace.

Wash contaminated clothing before reuse. Wash hands thoroughly after handling.

Section 9: Physical and Chemical Properties

AppearanceGreen liquidpH~4-5OdourDistinctiveBoiling point (degC)N/ASpecific gravity (kg/L)1.5Freezing point (degC)N/A

Solubility Soluble in water Flashpoint (degC) Not flammable

Section 10: Stability and Reactivity

Stability of substance Will decompose when heated (fire) or in contact with corrosives (Acid or Alkali).

Conditions to avoid:

None known.

Material to avoid:

None known.

Hazardous decomposition products: Not known - include oxides of nitrogen and carbon.

Hazardous polymerization: Will not occur.

Section 11: Toxicological Information

Data and InterpretationCalculated Oral LD50 470mg/kg.

See Section 2 for general hazard information.

Section 12: Ecological Information

Potential environmental interactions 9.3B (Toxic to terrestrial vertebrates).

Designed as a fertiliser to aid plant growth. Concentrated or excessive release is likely to have a detrimental effect on the environment.

Section 13: Disposal Considerations

Product disposal Dispose of only by using in accordance with the label instructions or at an approved landfill.

Container disposal: Render packaging incapable of holding product and dispose of at an appropriate recycling

depot (e.g. Agrecovery, www.agrecovery.co.nz).



Section 14: Transport Information

UN number: N/A

DG Class and Subsidiary Group: N/A

Proper shipping name: N/A

Packing group: N/A

HAZCHEM code: N/A

Special precautions: Do not carry more than 5L on a passenger service vehicle.

Section 15: Regulatory Information

Regulatory status Approved Pursuant to the HSNO Act 1996, under the Fertilisers (Subsidiary Hazard) Group

Standard (HSR002571). See www.epa.govt.nz for approval conditions.

Trigger quantities:Locations holding more than these quantities must adhere to the relevant requirements:

SDS must be available for Any quantity
Signage 1000L
Bunding 1000L

Emergency response plan 1000L

Section 16: Other Information

Revision due: 12 January 2023

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)

LD50 Lethal Dose fatal to 50% of test animals/organisms

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.