

FERTIGATE YELLOW

1.0 IDENTIFICATION OF THE MATERIAL AND SUPPLIER

1.1 Product identifier

Product name FERTIGATE YELLOW

1.2 Uses and advised against

Recommended use ALL-PURPOSE FERTIGATION FERTILISER

1.3 Details of the supplier of the product

Supplier Grochem (AgriNova New Zealand Limited)
Company no. 9429036821501
Address 15 Sunlight Grove, Porirua, New Zealand
Telephone +64 4 237 0905
Facsimile +64 4 237 0906
Email grochem@grochem.com
Website www.grochem.com

1.4 Emergency telephone number(s)

Emergency 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)

1.5 Date of preparation

Date of preparation 16 May 2019

2.0 HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

THIS MATERIAL IS HAZARDOUS ACCORDING TO CRITERIA OF EPA NEW ZEALAND.

Dangerous goods 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".

Dangerous goods code N/A

2.2 GHS label elements

Signal word WARNING



Hazard classification(s) 6.1E Substances that are acutely toxic - Oral
6.3B Substances that are mildly irritating to the skin
6.4A Substances that are irritating to the eye
6.8B Substances that are suspected human reproductive or developmental toxicants

| | | |
|--|----------------|--|
| Hazard statement(s) | H303 | May be harmful if swallowed. |
| | H316 | Causes mild skin irritation. |
| | H319 | Causes serious eye irritation. |
| | H361 | Suspected of damaging fertility or the unborn child. |
| Prevention precautionary statement(s) | P102 | Keep out of reach of children. |
| | P103 | Read label before use. |
| | P201 | Obtain special instructions before use. |
| | P202 | Do not handle until all safety precautions have been read and understood. |
| | P264 | Wash hands, face and all exposed skin thoroughly after handling. |
| | P281 | Use personal protective equipment as required. |
| Response precautionary statement(s) | P101 | If medical advice is needed, have product container or label at hand. |
| | P305+P351+P338 | If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| | P308+P313 | If exposed or concerned: Get medical advice/attention. |
| | P312 | Call a poison centre or doctor/physician if you feel unwell. |
| | P332+P313 | If skin irritation occurs: Get medical advice/attention. |
| | P337+P313 | If eye irritation persists: Get medical advice/attention. |
| Storage precautionary statement | P405 | Store locked up. |
| Disposal precautionary statement | P501 | Dispose of contents/container in accordance with local, regional, national and international regulations. |

3.0 COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances/mixtures

| Ingredient | CAS number | Proportion |
|---|------------|-------------------|
| Boric acid (H3BO3) | 10043-35-3 | 0.1 - 0.5 % (w/w) |
| Cuprate(2-), [[N,N'-1,2-ethanediy]bis[N-(carboxymethyl)glycinato]] (4-)-N,N',O,O',ON,ON]-, disodium, (OC-6-21)- | 14025-15-1 | <0.1 % (w/w) |
| Ingredients determined to be non-hazardous | | to 100% |

4.0 FIRST AID MEASURES

4.1 Description of first aid measures

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

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|-----------------------------|--|
| 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, remove contaminated clothing and flush skin and hair with running water. If swelling, redness, blistering or irritation occurs seek medical assistance. For gross contamination, immediately drench with water and remove clothing. Continue to flush skin and hair with plenty of water (and soap if material is insoluble). For skin burns, cover with a clean, dry dressing until medical help is available. If blistering occurs, do NOT break blisters. If swelling, redness, blistering, or irritation occurs seek medical assistance. |
| Eye contact | If in eyes, hold eyelids apart and flush the eyes continuously with running water. Continue flushing until advised to stop by the Poisons Information Centre or a Doctor; or for at least 15 minutes and transport to Doctor or Hospital. |
| 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 natural rubber should be suitable for intermittent contact. However, due to variations in glove construction and local conditions, the user should make a final assessment. 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. |

5.0 FIRE FIGHTING MEASURES

5.1 Hazchem code

Not applicable.

5.2 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).

5.3 Specific hazards

Non-combustible material.

5.4 Firefighting further advice

Not applicable.

6.0 ACCIDENTAL RELEASE MEASURES

6.1 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.

6.2 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 dust. Work up wind or increase ventilation. Cover with damp absorbent (inert material, sand or soil). Sweep or vacuum up but avoid generating dust. Collect and seal in properly labelled containers or drums for disposal. If contamination of crops, sewers or waterways has occurred advise local emergency services.

6.3 Dangerous goods - Initial emergency response guide no.

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7.0 HANDLING AND STORAGE

7.1 Handling

Handlight practices Avoid eye contact and skin contact. Avoid inhalation of dust.

7.2 Storage

Site requirements 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. Store locked up. Keep container standing upright. Keep containers closed when not in use - check regularly for spills.

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".

8.0 EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 National occupational exposure limits

Workplace exposure guidelines No value assigned for this specific material by WorkSafe New Zealand.

8.2 Biological limit values

Biological limit values As per the WorkSafe New Zealand the ingredients in this material do not have a Biological Limit Allocated.

8.3 Engineering controls

Exposure control methods Natural ventilation should be adequate under normal use conditions.

8.4 Personal Protective Equipment (PPE)

Detail specifications for equipment 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 natural rubber should be suitable for intermittent contact. However, due to variations in glove construction and local conditions, the user should make a final assessment. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

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 dust. Ensure that eyewash stations and safety showers are close to the workstation location.



9.0 PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

| | |
|-------------------|------------------|
| Form | Powder |
| Colour | Off white |
| Odour | Distinctive |
| Solubility | Soluble in water |
| pH | 4-5 in solution |

10.0 STABILITY AND REACTIVITY

10.1 Chemical stability

Generally stable.

10.2 Conditions to avoid

No specific conditions noted.

10.3 Incompatible materials

No specific materials noted.

10.4 Hazardous decomposition products

Not known.

10.5 Hazardous reactions

Will not occur.

11.0 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:

11.1 Acute effects

| | |
|---------------------|--|
| Inhalation | Material may be an irritant to mucous membranes and respiratory tract. |
| Skin contact | Contact with skin may result in irritation. |
| Ingestion | Swallowing can result in nausea, vomiting and irritation of the gastrointestinal tract. |
| Eye contact | An eye irritant. Exposure to the dust may cause discomfort due to particulate nature. May cause physical irritation to the eyes. |

11.2 Acute toxicity

| | |
|---|---|
| Inhalation | This material has been classified as non-hazardous. Acute toxicity estimate (based on ingredients): LC50 > 5.0 mg/L |
| Skin contact | This material has been classified as non-hazardous. Acute toxicity estimate (based on ingredients): >5,000 mg/Kg bw |
| Ingestion | This material has been classified as a 6.1E - Substances that are acutely toxic. Acute toxicity estimate (based on ingredients): 2,000 - 5,000 mg/Kg bw |
| Corrosion/irritancy | Eye: this material has been classified as a 6.4A - Substances that are irritating to the eye. Skin: this material has been classified as a 6.3B - Substances that are mildly irritating to the 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 non-hazardous. |
| Specific target organ toxicity (single exposure) | This material has been classified as non-hazardous. |

11.3 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 a 6.8B - Substances that are suspected human reproductive or developmental toxicants.

Specific target organ toxicity (repeat exposure) This material has been classified as non-hazardous.

12.0 ECOLOGICAL INFORMATION

Avoid contaminating waterways.

12.1 Acute aquatic hazard

This material has been classified as non-hazardous. Acute toxicity estimate (based on ingredients): >100 mg/L

12.2 Long-term aquatic hazard

This material has been classified as non-hazardous. Non-rapidly or rapidly degradable substance for which there are adequate chronic toxicity data available OR in the absence of chronic toxicity data, Acute toxicity estimate (based on ingredients): >100 mg/L, where the substance is not rapidly degradable and/or BCF < 500 and/or log Kow < 4.

12.3 Ecotoxicity in the soil environment

This material has been classified as non-hazardous.

12.4 Ecotoxicity to terrestrial vertebrates

This material has been classified as non-hazardous.

12.5 Ecotoxicity to terrestrial invertebrates

This material has been classified as non-hazardous.

12.6 Ecotoxicity

No information available.

12.7 Persistence and degradability

No information available.

12.8 Bioaccumulative potential

No information available.

12.9 Mobility

No information available.

13.0 DISPOSAL CONSIDERATIONS**13.1 Waste treatment methods**

Waste disposal 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.

14.0 TRANSPORT INFORMATION**14.1 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".

14.2 Marine transport

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

14.3 Air transport

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

14.4 Special precautions

Do not carry more than 10kg on a passenger service vehicle.

15.0 REGULATORY INFORMATION**15.1 Regulatory status**

All components of this product are listed on or exempt from the New Zealand Inventory of Chemical (NZIoC).

EPA group standard: **HSR002571** - Fertilisers (Subsidiary Hazard) Group Standard

15.2 Trigger quantities

| | |
|---------------------------|--------------------|
| SDS | Yes – any quantity |
| Approved handler | No |
| Location test certificate | No |
| Fire extinguishers | No |
| Signage | No |
| Emergency response | No |
| Hazardous atmosphere zone | No |

16.0 OTHER INFORMATION

Revision due 05 May 2024

Additional information 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.

Glossary

| | |
|-------------|---|
| ACVM | Agricultural Compounds and Veterinary Medicines |
| CAS | Chemical Abstract Services number (used to identify chemical compounds) |
| HSNO | Hazardous Substances and New Organisms (legislation 1996) |
| LD50 | Lethal Dose fatal to 50% of test animals/organisms |
| LC50 | Lethal Concentration fatal to 50% of test animals/organisms |