

# **Citrimin**

# **HAZARDOUS, DANGEROUS GOODS**

## 1. MATERIAL AND SUPPLY COMPANY IDENTIFICATION

Product name: Citrimin

**Recommended use:** Foliar Fertiliser - Chloride free

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.

EPA Group Standard: HSR002571 - Fertilisers (Subsidiary Hazard) Group Standard 2020.

HSNO Approval Code: HSR002571







**Signal Word:** Danger

**Hazard Classifications:** Serious Eye Damage/Irritation - Category 1

Toxic to Reproduction - Category 2

Specific target organ toxicity following single exposure - Category 1 Long term hazards to the Aquatic Environment - Category 2

Hazardous to Soil Organisms

**Hazard Statements:** H318 - Causes serious eye damage.

H361 - Suspected of damaging fertility or the unborn child.

H370 - Causes damage to organs.

H411 - Toxic to aquatic life with long lasting effects.

H423 - Harmful to the soil environment.

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

P103 - Read carefully and follow all instructions. P201 - Obtain special instructions before use.

P202 - Do not handle until all safety precautions have been read and understood.

P260 - Do not breathe dust, fume, gas, mist, vapours or spray.

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

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

P273 - Avoid release to the environment.

P281 - Use personal protective equipment as required.



**Response Precautionary Statements:** 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.

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

emergency medical advice. P391 - Collect spillage.

**Storage Precautionary Statement:** P405 - Store locked up.

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

international regulations.

**DANGEROUS GOOD CLASSIFICATION:** 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 Class:

#### **3. COMPOSITION INFORMATION**

CHEMICAL ENTITYCAS NOPROPORTIONBoric acid (H3B03)10043-35-30.4 % (w/w)Sulfuric acid, manganese(2+) salt (1:1), monohydrate10034-96-514 % (w/w)Sulfuric acid, zinc salt (1:1), monohydrate7446-19-74 % (w/w)Ingredients determined to be Non-HazardousBalance

100%

#### 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, remove contaminated clothing and flush skin and hair

with running water. If swelling, redness, blistering or irritation occurs seek medical

assistance.

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 nitrile 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: 2Z

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:** None known.

Firefighting further advice: On burning or decomposing may emit toxic fumes. Fire fighters to wear self-contained

breathing apparatus and suitable protective clothing if risk of exposure to vapour or

products of combustion or decomposition.



#### **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 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.

Dangerous Goods - Initial Emergency Response Guide No:

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#### 7. HANDLING AND STORAGE

**Handling:** Avoid eye contact and skin contact. Avoid inhalation of dust.

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.

This material is classified as a Class 9 Miscellaneous Dangerous Good as per the criteria of the New Zealand NZS5433: Transport of Dangerous Goods on Land and/or the Australian Code for the Transport of Dangerous Goods by Road & Rail and must be stored in accordance with the relevant regulations.

#### 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 nitrile 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 dust. Ensure that eyewash

stations and safety showers are close to the workstation location.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Form: Off white powder Solubility: Soluble in water

Colour: White pH: 4 typ

Odour: Disctinctive

#### **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 may 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. Exposure to the dust may cause

discomfort due to particulate nature. May cause physical irritation to the eyes.

**ACUTE TOXICITY** 

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

toxicity estimate (based on ingredients):  $LC_{50} > 5.0 \text{ mg/L}$  for dust

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 not corrosive or irritating 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 a Category 1 Hazard.

**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 Category 2 - Substances that are suspected

human reproductive or developmental toxicants.

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

**Long-term aquatic hazard:** This material has been classified as a Category Chronic 2 Hazard. 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): 1-10 mg/L, where the substance is not rapidly degradable and/or BCF  $\geq$  500 and/or log Kow  $\geq$  4.

**Ecotoxicity in the soil environment:** This material has been classified as harmful to the soil environment.

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

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

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**

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.



**UN No:** 3077

Dangerous Goods Class: 9

Packing Group:

Hazchem Code: 2Z

Emergency Response Guide No: 47

Limited Quantities: 5kg

**Proper Shipping Name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

**Segregation Dangerous Goods:** Not to be loaded with explosives (Class 1).

#### MARINE TRANSPORT

Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea. This material is classified as a Marine Pollutant (P) according to the International Maritime Dangerous Goods Code.



**UN No:** 3077

**Dangerous Goods Class:** 9

Packing Group:

Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

#### **AIR TRANSPORT**

Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.



**UN No:** 3077

**Dangerous Goods Class:** 9

Packing Group:

**Proper Shipping Name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.



#### **15. REGULATORY INFORMATION**

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

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 2020

**HSNO Trigger Quantities:** SDS Any quantity

Signage 1000 kg Emergency plan 1000 kg

#### **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.