



SAFETY DATA SHEET

Organic Root-Gro®

SECTION 1: IDENTIFICATION OF THE SUBSTANCE AND COMPANY

1.1 Identifiers

Product name: Organic Root-Gro®

1.2 Recommended use of the chemical and restrictions on use

Product Use: A blend of 26 Natural Root Exudates to enhance soil microbial activity.

1.3 Supplier contact details:

Company name: Grosafe Chemicals Limited
Address: 20 Jean Batten Drive, Mt Maunganui, 3116
Telephone: 0800 220 002
Email: info@grosafe.co.nz

Emergency telephone number 0800 CHEMCALL (0800 243 622)

SECTION 2: HAZARD IDENTIFICATION

2.1 Classification of the Hazardous Chemical

Product is not classified as hazardous according to Hazardous Substances (Hazard Classification) Notice 2020 of the HSNO Act 1996.
HSNO Substance Approval: Not classified.
Classifications: N/A

2.2 Label elements:

Pictograms: N/A

Signal Word: N/A

Hazard statements: N/A

Additional statements required under Hazardous Substances (Labelling) Notice 2017

Precautionary statements:

Prevention N/A

Response N/A

Storage N/A

Disposal

P501 Dispose of contents/container in accordance with local regulations.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

| Ingredients | CAS | Proportion % w/w |
|--|-----|------------------|
| www.epa.govt.nz/Publications/is8-may2001.pdf <i>Manufactured articles</i> (No. 11, May 2001), http://www.epa.govt.nz/Publications/www.epa.govt.nz/Publications/is8-may2001.pdf . Non-hazardous trade secret ingredients PRODUCT IS NON-HAZARDOUS AND NON-TOXIC. | N/A | 100% |

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

General Information:

For advice call the National Poison Centre, telephone 0800 POISON [0800 764 766]. Have label or Safety Data Sheet at hand.

Ingestion: If swallowed, do NOT induce vomiting. Rinse mouth with water. Call the NATIONAL POISONS CENTRE or doctor for advice if you feel unwell. Have product label or SDS at hand.

Skin Contact: Remove contaminated clothing and wash skin with plenty of soap and water. Get medical advice if irritation occurs.

Eye Contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice if irritation persists.

Inhalation: Remove person to fresh air and keep at rest in a position comfortable for breathing. Call the NATIONAL POISONS CENTRE or doctor for advice if you feel unwell.

4.2 Symptoms caused by exposure

Unlikely to cause harmful effects under normal conditions of handling and use.

4.3 Medical attention and special treatment

Treat symptomatically.

SECTION 5: FIRE FIGHTING MEASURES

5.1 Suitable extinguishing media

Not combustible, however, if material is involved in a fire use: normal foam, dry agent (carbon dioxide, dry chemical powder).

5.2 Specific hazards arising from the chemical

Non-combustible material.

5.3 Special protective equipment and precautions for fire fighters

Fire fighters self-contained breathing apparatus and suitable protective clothing should be worn when fighting fires involving any chemicals.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Have this SDS available. In the event of a spill, wear eye and hand protection.

6.2 Environmental precautions

Product is non-hazardous and non-toxic

6.3 Methods and materials for containment and cleaning up

Slippery when spilt. Avoid accidents, clean up immediately. Wear protective equipment to prevent skin and eye contact. Contain - prevent run off into drains and waterways. Use absorbent (soil, sand or other inert material)

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid skin and eye contact and breathing in vapour, mists.

7.2 Conditions for safe storage

Store in cool place and out of direct sunlight. Keep containers closed when not in use - check regularly for leaks.

SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

8.1 Control parameters – exposure standards, biological monitoring

No information available.

8.2 Engineering controls

Natural ventilation should be adequate under normal use conditions. Keep containers closed when not in use.

8.3 Personal protective equipment (PPE)

The following Standards provide general advice regarding safety clothing and equipment:

Respiratory equipment: **AS/NZS 1715**, Protective Gloves: **AS 2161**, Occupational Protective Clothing: **AS/NZS 4501**, Industrial Eye Protection: **AS1336** and **AS/NZS 1337**, Occupational Protective Footwear: **AS/NZS2210**.

The selection of PPE is dependent on a detailed risk assessment. The risk assessment should consider the work situation, the physical form of the chemical, the handling methods, and environmental factors.

Personal Protection: B - OVERALLS, SAFETY SHOES, SAFETY GLASSES, GLOVES.

Wear overalls, safety glasses and impervious gloves. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

| | |
|---------------------------------|--------------------|
| Appearance | Dark Colour Liquid |
| Odour | Neutral Odour |
| Solubility | Soluble in water |
| Specific Gravity | 1.12 kg/L ± 0.10 |
| Relative Vapour Density (air=1) | Not available |
| Vapour Pressure (20°C) | Not available |
| Flash point | >121°C |
| Flammability Limits (%) | Not applicable |
| Auto-ignition temperature | Not applicable |
| % Volatile by Volume | Not available |
| Solubility in water (g/L): | Not available |
| Melting Point/Range (°C) | Not available |
| Boiling Point/Range (°C) | >93 |
| Decomposition Point (°C) | Not available |
| pH | 3.4-3.8 |
| Viscosity | Not available |

Evaporation Rate

Not available

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

No information available.

10.2 Chemical stability

Stable.

10.3 Conditions to Avoid

None known.

10.4 Incompatible materials and possible hazardous reactions

None known.

10.5 Hazardous decomposition products

None known.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Health hazard 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:

Ingestion: Swallowing can result in nausea, vomiting.

Eye contact: May be an eye irritant.

Skin contact: Contact with skin may result in irritation.

Inhalation: Breathing in mists or aerosols may produce respiratory irritation.

Acute toxicity: No data available for the product.

Chronic effects: No information available for the product.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Ecotoxicity

Avoid contaminating waterways.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Product Disposal

Refer to product label. If possible, dispose of by using according to the label. Otherwise dispose of to an approved landfill in accordance with local regulations.

13.2 Container Disposal

Refer to product label. Do not use packaging for storage of other products. Empty packaging should be disposed of to an approved recycler or crushed and sent to approved landfill.

SECTION 14: TRANSPORT INFORMATION

Road and Rail Transport:

Classified as non- Dangerous Good according to NZS5433 Transport of Dangerous Goods on Land

Marine Transport (IMO/IMDG):

Classified as non- Dangerous Good by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

Air Transport (ICAO/IATA):

Classified as non-Dangerous Good by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulation for transport by air.

UN Number: Non regulated

UN Proper Shipping Name:

Transport hazard class(es)

Packing Group:

HAZCHEM:

Special Precautions for User: -

IMDG Marine pollutant:

Transport in Bulk: -

SECTION 15: REGULATORY INFORMATION

15.1 HSNO Act 1996

Hazardous substance according to Hazardous Substances (Hazard Classification) Notice 2020.

Approved substance number: Not Classified as a hazardous substance

Hazardous classifications: N/A

Controls: N/A

Additional information: N/A

15.2 ACVM Act 1997

Registration number: Exempt

Refer to www.foodsafety.govt.nz for registration conditions.

SECTION 16: OTHER INFORMATION

16.1 Date of preparation or last revision of SDS

SDS issued 13 March 2023

SDS supersedes 20th July 2020

Reason issued Update SDS

16.2 ABBREVIATIONS

| | |
|-------------------------|---|
| ADI | Acceptable Daily Intakes |
| CAS number | Chemical Abstracts Service Registry Number |
| CCID | Chemical Classification Identification Database |
| EPA | Environmental Protection Authority |
| ErC₅₀ | Half maximal Effective Concentration |
| GHS | Globally Harmonized System of Classification and Labelling of Chemicals |
| Hazchem Code | Emergency action code of numbers and letters that provide information to emergency services especially firefighters |
| HSNO | Hazardous Substances and New Organisms |
| HS | Health and Safety |
| HSR | Hazardous Substances Register |
| IARC | International Agency for Research on Cancer |
| LC₅₀ | Median Lethal Concentration |
| LD₅₀ | Median Lethal Dose |
| SDS | Safety Data Sheets |
| NOAEL | No Observable Adverse Effect Level |
| NOEL | No Observable Effect Level |
| NOS | Not otherwise specified |

13 March 2023

| | |
|------------------|---------------------------|
| STEL | Short Term Exposure Limit |
| SWA | Safety Work Australia |
| TWA | Time-Weighted Average |
| UN Number | United Nations Number |

16.3 REFERENCES

EPA CCID and Approved Substance databases
PPDB- Pesticides Properties DataBase

16.4 OTHER

Information contained in this Safety Data Sheet is provided in good faith and is believed to be correct at the date hereof. However, it's expected that individuals receiving the information will exercise independent judgement in determining its appropriateness for a particular purpose. Grosafe Chemicals Ltd makes no representation whatsoever as to the accuracy or comprehensiveness of the information and to the full extent allowed by law excludes all liability whatsoever, whether with respect to negligence or otherwise, and no responsibility as permitted by law for any loss or damage arising from or connection with the supply or use of the information in this Safety Data Sheet.

End of Safety Data Sheet