

SAFETY DATA SHEET

GROCOUNT®

SECTION 1: IDENTIFICATION OF THE SUBSTANCE AND COMPANY

1.1 Identifiers

Product name: **GROCOUNT®**
Other Name(s): Water dispersible granule containing difenoconazole 100g/kg

1.2 Recommended use of the chemical and restrictions on use

Product Use: Fungicide for control of black spot on apples, pears and powdery mildew in apples.

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

Classified as hazardous according to the criteria of the Hazardous Substances (Hazard Classification) Notice 2020 and in accordance with Hazardous Substances and New Organisms Act 1996.

HSNO Substance Approval: HSR000627

Hazard Classification: Eye Irritation Category 2, Specific Target Organ Toxicity- repeated exposure Category 2, Hazardous to the Aquatic environment Chronic Category 2.

2.2 Label elements:

Pictograms:



Signal Word: **WARNING**

Hazard statements:

H319 Causes serious eye irritation.
H373 May cause damage to organs through prolonged or repeated exposure.
H411 Toxic to aquatic life with long-lasting effects.

Prevention statements:

P103 Read label before use.
P260 Do not breathe dust/fume/gas/mist/vapors/spray.
P264 Wash exposed parts of body thoroughly after handling.
P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

Response Statements:

P314 Get medical advice/attention if you feel unwell.

P305+P351+ IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses

P338 if present and easy to do - continue rinsing.

P337+P313 If eye irritation persists: Get medical advice/attention.

P391 Collect spillage.

Storage Statements:

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Disposal Statements:

P501 Disposal of waste product and containers must be in accord with local bylaws and regulations

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS	Proportion % w/w
Difenoconazole	119446-68-3	10
2-Naphthalenesulfonic acid, polymer with formaldehyde, sodium salt	36290-04-7	>10<20
Other ingredients *	Trade secret	Balance
*non-hazardous or do not affect hazardous classifications		

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, rinse mouth with water. Do not induce vomiting. Call the NATIONAL POISONS CENTRE or doctor for advice if concerned or person feels unwell.

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

Eye Contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention 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 concerned or person feels unwell.

4.2 Symptoms caused by exposure

No specific symptoms identified.

4.3 Medical attention and special treatment

Treat symptomatically.

SECTION 5: FIRE FIGHTING MEASURES

5.1 Suitable extinguishing media

Use water spray or fog, foam, CO2 or dry chemical as appropriate for surrounding materials, Contain extinguishing media to prevent runoff into drains, sewers, waterways.

5.2 Specific hazards arising from the chemical

Fire decomposition products may be toxic/harmful and/or irritating if inhaled.



Evacuate people to safe area upwind of fire.

5.3 Special protective equipment and precautions for fire fighters

Wear full personal protective equipment including with self-contained breathing apparatus (SCBA).

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 appropriate protective clothing and eye/hand protection. Wash contaminated personal protective equipment and clothing and dry before re-use.

6.2 Environmental precautions

Prevent spillage from entering drains or waterways. If contamination of drains, streams, watercourses, etc. is unavoidable, warn the local water authority.

6.3 Methods and materials for containment and cleaning up

Contain spilled material. Collect granules for reuse or disposal. For small liquid spills, use absorbent material such as sand, soil, vermiculite and recover into labelled drums that can be sealed for safe disposal. For large liquid spills, recover liquid into labelled containers then absorb remaining liquid and transfer to drums for disposal. Clean area with water and detergent.

Dispose of contaminated materials to approved landfill in accordance with local regulations.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Read the label before use. Do not apply directly into or onto water.

Take all reasonable steps to ensure that the substance does not cause any significant adverse effects to the environment beyond the application area

When mixed, loaded or applied, the person needs to be a suitably qualified handler.

When applying product avoid inhalation of spray mist/aerosols. Wear protective equipment such as coat/trouser (overalls), boots, gloves and eye protection.

Wash hands and exposed skin with soap and water after handling and before rest or meal breaks.

Do not eat, drink or smoke when using.

Do not use spray equipment contaminated with this product for any other purpose unless first thoroughly cleaned with a suitable cleaning detergent.

7.2 Conditions for safe storage

Store securely in the closed original packaging out of reach of children and in a dry, cool, well-ventilated area and out of direct sunlight. Keep away from sources of heat, food, drink and animal feedstuffs.

Storage of 1000 kg or more of this product invokes controls (emergency response plan, secondary containment, signage) .

SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

8.1 Control parameters – exposure standards, biological monitoring

Ingredient	TWA (mg/m ³)	STEL (mg/m ³)
Respirable dust (not otherwise classified)	3	-

8.2 Engineering controls

Recommended to use in well-ventilated area or outdoors.

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**.

Eye/Face Protection: Wear chemical splash goggles if eye contact with dust or spray moist/aerosol is possible.

Skin Protection: Wear impervious chemical resistant gloves (e.g. nitrile, butyl), coveralls, socks and chemical resistant footwear. For overhead spray exposure, wear chemical resistant headgear. Ensure all skin areas are covered.

Respirator: Use outdoors in well-ventilated area or use local exhaust ventilation. Where product is being sprayed and a mist could be produced a respirator should be worn. It should be fitted with a cartridge, suitable for particulates.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Off white/cream/beige granules
Odour	No information
Odour threshold	No information
pH	6.0 – 8.5 (1% aq)
Melting/Freezing Point	Difenoconazole melting point: 82.5°C
Boiling Point /Range	Difenoconazole boiling point: 101°C
Flash point	Not applicable
Flammability (solid, gas)	Non-flammable
Vapour Pressure	Difenoconazole 3.33 x 10 ⁻⁵
Vapour density	No information
Specific gravity/bulk density	Not available
Solubility	Dispersible in water. Difenoconazole solubility in water: 15 mg/L.
Partition Co-efficient n-octanol/water	Difenoconazole Log P: 4.46
Auto-ignition temperature	No information
Decomposition temperature	No information
Viscosity	Not applicable

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

This product is unlikely to react or decompose under normal storage conditions.

10.2 Chemical stability

Stable under normal temperatures and pressure for storage and use.

10.3 Conditions to Avoid

Avoid storage in direct sunlight, exposure to heat or contact with incompatible materials.

10.4 Incompatible materials and possible hazardous reactions

No substances are known which lead to the formation of hazardous substances or thermal reactions.

10.5 Hazardous decomposition products

Combustion or thermal decomposition will evolve toxic and irritant vapours.

10.6 Polymerisation

Not known to occur.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Health hazard information

The product is classified for health hazards according to an assessment of information on product.

11.2 Toxicological information

The product has not been tested. The statements have been derived from the properties of the individual components.

Acute toxicity:	<p>Acute oral toxicity Experimental/calculated data: LD50rat (oral): >2000 mg/kg</p> <p>Acute dermal toxicity LD50rat (dermal): >2000 mg/kg</p> <p>Acute inhalation toxicity LC50 rat (by inhalation): >4.4 mg/L</p>
Skin corrosion/irritation	Non irritant (rabbit).
Serious eye damage/irritation	Classified as causing eye irritation Cat 2.
Respiratory or skin sensitisation	Experimental/calculated data: Eye damage/irritation (rabbit)
Germ cell mutagenicity:	Not classified.
Carcinogenicity	Not classified.
Reproductive toxicity	Not classified.
Specific target organ toxicity – single/repeated exposure	Classified as STOT (Repeated exposure) Cat 2. Difenoconazole identified as having possible adverse effects on liver, heart, thyroid and kidneys.
Narcotic effects	Not classified.

SECTION 12: ECOLOGICAL INFORMATION

The product has not been tested. The statement has been derived from the properties of the individual components.

12.1 Ecotoxicity

This product is classified as toxic to aquatic life and with long lasting effects.

12.2 Environmental Fate

Information on: Difenoconazole

12.3 Ecotoxicity data:

Difenoconazole	Toxicity to fish: LC50 (96 h) 15 mg/l, <i>Oncorhynchus mykiss</i> (rainbow trout)
	Aquatic invertebrates: EC50 (48 h) 5.3 mg/l, <i>Daphnia magna</i>
	Aquatic plants: EC50 (72 h) 0.091 mg/l, <i>Navicula pelliculosa</i>

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 or waste management facility 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 pesticide recycler or crushed and sent to approved landfill.

SECTION 14: TRANSPORT INFORMATION

Road and Rail Transport: Classified as dangerous goods by the criteria of NZS 5433:2020: Transport of Dangerous Goods on Land.

Sea Transport: IMDG: Classified as dangerous goods under transport regulations.

Air Transport: IATA/ICAO: Classified as dangerous goods under transport regulations.

UN Number:	3077
Proper Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Difenoconazole 10%)
DG Class:	9
Packing Group:	III
Marine Pollutant:	Yes
HAZCHEM:	2Z

SECTION 15: REGULATORY INFORMATION

15.1 HSNO Act 1996

Classified as hazardous according to the criteria of the Hazardous Substances (Hazard Classification) Notice 2020 and in accordance with Hazardous Substances and New Organisms Act 1996.

Approval Number: HSR000627

Hazard Classifications: Eye Irritation Category 2, Specific Target Organ Toxicity- repeated exposure Category 2, Hazardous to the Aquatic environment Chronic Category 2

15.2 HSWA Guidelines 2017

The Health and Safety at Work (Hazardous Substances) Regulations 2017 bring together health and safety requirements for using hazardous substances at work.

The total amount of substances may activate controls:

Certified Handler – not required

Tracking – not required

Location Compliance Certificate: not required

Emergency management plans and signage: 1000kg

Secondary Containment: 1000kg

Fire Extinguishers: not required

Tolerable Exposure Level (TEL) – None set

Environmental Exposure Level (EEL) International Agreements – None set

15.3 ACVM Act 1997

Registration number: P010252 (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	21 November 2024
Version	1.0
SDS supersedes	Not applicable
Reason issued	New product

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 that provide information to emergency services
HSNO	Hazardous Substances and New Organisms
HSR	Hazardous Substances Register
HSWA	Health & Safety at Work Act
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
NZIoC	New Zealand Inventory of Chemicals
PPID	Pesticides Properties Database
STEL	Short Term Exposure Limit
SWA	Safety Work Australia
TWA	Time-Weighted Average
UN Number	United Nations Number

GROCOUNT® is a trademark of Grosafe Chemicals Limited.

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End of Safety Data Sheet