

**SAFETY DATA SHEET**

**GroCap™**

**SECTION 1: IDENTIFICATION OF THE SUBSTANCE AND COMPANY**

**1.1 Identifiers**

Product name: **GroCap™**  
Other Name(s): Water dispersible granule containing 900 g/kg captan

**1.2 Recommended use of the chemical and restrictions on use**

Product Use: Fungicide

**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](mailto:info@grosafe.co.nz)

**Emergency telephone number** 0800 CHEMCALL (0800 243 622)

**SECTION 2: HAZARD IDENTIFICATION**

**2.1 Classification of the Hazardous Chemical**

Hazardous substance according to Hazardous Substances and New Organisms (HSNO) Act 1996  
Hazard Classifications: Serious eye damage Category 1, Skin sensitisation Category 1, Carcinogenicity Category 2, Hazardous to the aquatic environment acute Category 1.

**2.2 Label elements:**

**Pictograms:**



**Signal Word:**

**DANGER**

**Hazard statements:**

- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H351 Suspected of causing cancer.
- H410 Very toxic to aquatic life.

**Precautionary statements:**

*Prevention*

- 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.



P261	Avoid breathing dust/mist/spray.
P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective, protective clothing, gloves and eye protection/face protection.
<i>Response</i>	
P101	If medical advice is needed, have product container or label at hand.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P333 + P313	If skin irritation or rash occurs: get medical advice/attention.
P363	Take off contaminated clothing and wash it before use.
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 CENTRE or doctor.
P308 + P313	IF exposed or concerned: Get medical advice.
P391	Collect spillage.
<i>Storage</i>	
P405	Store locked up.
<i>Disposal</i>	
P501	Dispose of contents/container in accordance with local regulations.

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS	Proportion % w/w
Captan	133-06-2	90
Other ingredients*	Trade secret	balance

This is a commercial product whose exact ratio of components may vary slightly.  
\*Do not affect the hazardous classifications of the product.

### SECTION 4: FIRST AID MEASURES

#### 4.1 Description of first aid measures

##### General Information:

For advice, or if you are exposed or concerned, call the National Poison Centre, telephone 0800 POISON [0800 764 766] for advice. Have product label or or container at hand

**IF SWALLOWED:** Rinse mouth with water. Call a POISONS CENTRE or doctor for advice if person feels unwell.

**IF ON SKIN:** Wash with plenty of soap and water. Remove contaminated clothing and wash it before reuse. If skin irritation or rash occurs: get medical advice/attention.

**IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTRE or doctor.

**IF INHALED:** Remove person to fresh air and keep at rest in a position comfortable for breathing. Call a POISONS CENTRE or doctor for advice if person feels 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

Use water spray or fog, foam, CO<sub>2</sub> 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 (e.g. carbon monoxide, carbon dioxide, nitrogen oxides, other unspecified compounds, smoke) may be 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, protective gloves and eye/face protection. Wash contaminated personal protective equipment and clothing, and dry before reuse.

### 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. Recover granules into labelled waste containers for disposal. For small liquid spills, use absorbent material and recover into labelled drums that can be sealed for safe disposal. For large 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 handle until all safety precautions have been read and understood. To be used by people who are suitably trained and appropriately supervised. Do not apply 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.

Avoid contact with skin and eyes. Avoid inhalation of dust/mist/aerosols. Wear protective equipment such as coat/trouser (overalls), head protection, boots, gloves and eye protection.

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

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 locked up 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 food, drink and animal feedstuffs.

Storage of 100 kg or more of this product requires an emergency response plan, secondary containment and signage.

## SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

### 8.1 Control parameters – exposure standards, biological monitoring

Ingredient	TWA (mg/m <sup>3</sup> )	STEL (mg/m <sup>3</sup> )
Captan	5	
Particulates, not otherwise classified	10 3 (respirable)	

No biological limits applicable.

### 8.2 Engineering controls

Use in outdoors or in a well-ventilated area.

### 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 resistant goggles or face shield.

**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	White-beige granule
Odour	Slight
Odour threshold	Not known
pH	5.0 – 7.5 range
Melting/Freezing Point	No data available
Boiling Point /Range	No data available
Flash point	Non flammable
Flammability (solid, gas)	Not applicable
Upper/lower flammability or explosive limits	No data available
Vapour Pressure	No data available
Vapour density	No data available
Specific gravity	No data available
Solubility	Dispersible in water
Partition Co-efficient n-octanol/water	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	Not applicable
Particle characteristics	No data available

## 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.

**10.4 Incompatible materials and possible hazardous reactions**

Explosives, oxidizing agents, organic peroxides.

**10.5 Hazardous decomposition products**

**Fire Decomposition:** Carbon dioxide, carbon monoxide, nitrogen oxides, smoke and possible other unspecified compounds.

**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**

Acute toxicity:	Not classified as being acutely toxic.
Aspiration hazard:	Product contains no components with aspiration hazard.
Respiratory irritation:	Not classified as an irritant.
Skin corrosion/irritation	Not classified as an irritant.
Serious eye damage/irritation	Causes serious eye damage..
Respiratory or skin sensitisation	Captan identified as a skin sensitiser.
Germ cell mutagenicity:	No ingredients in product identified as presumed or suspected mutagens.
Carcinogenicity	Captan is identified as a suspected carcinogen.
Reproductive toxicity	No ingredients in product identified as suspected of damaging fertility or the unborn child.
Specific target organ toxicity – single/repeated exposure	No ingredients in product identified as suspected target organ or system toxicants.
Narcotic effects	Product contains no ingredient identified as causing narcotic effects.

**11.3 Toxicological data:**

Captan	Inhalation, rat, LC <sub>50</sub> 0.72 mg/L
--------	---

## SECTION 12: ECOLOGICAL INFORMATION

**12.1 Ecotoxicity**

This product is classified as being very toxic to aquatic life.

**12.2 Environmental Fate**

**Breakdown in soil and groundwater:** Non-persistent

**Bioaccumulation:** Low

**Partition coefficient (octanol/water):** Not available

**Soil mobility:** Low



### 12.3 Ecotoxicity data:

#### Captan

Algae: *Skeletonema costatum* EC<sub>50</sub> 0.18 mg/L

Fish: Brown trout LC<sub>50</sub> (96 h) 0.0262 mg/L

Crustacea: *Daphnia magna* LC<sub>50</sub> 8.4 mg/L

## 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 a chemical recovery service or 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 Dangerous Good Class 9 according to NZS5433 Transport of Dangerous Goods on Land

### Marine Transport (IMO/IMDG):

Classified as Dangerous Good Class 9 by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

### Air Transport (ICAO/IATA):

Classified as Dangerous Good Class 9 by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulation for transport by air.

<b>UN Number:</b>	3077
<b>UN Proper Shipping Name:</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (CONTAINS 90% CAPTAN)
<b>Transport hazard class(es)</b>	9
<b>Packing Group:</b>	III
<b>HAZCHEM:</b>	2Z
<b>Special Precautions for User:</b>	-
<b>IMDG Marine pollutant:</b>	YES
<b>Transport in Bulk:</b>	-

## SECTION 15: REGULATORY INFORMATION

### 15.1 HSNO Act 1996

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

**Approved substance number:** HSR000503

Water dispersible granule containing 800 g/kg captan

**Hazardous classifications:** Serious eye damage Category 1, Skin sensitisation Category 1, Carcinogenicity Category 2, Hazardous to the aquatic environment acute Category 1.

**Controls:** Do not apply onto or into water

**Additional information:** Refer to HS Notices ([www.epa.govt.nz](http://www.epa.govt.nz)) and HSW HS Regulations ([www.worksafe.govt.nz](http://www.worksafe.govt.nz))

**Certified handler:** Not applicable



<b>Tracking:</b>	Not applicable
<b>Qualifications:</b>	A person mixing, loading, or applying this substance must be a suitably qualified or under the guidance of a suitably qualified person.
<b>International Agreements:</b>	Not applicable
<b>Signage trigger quantity (Schedule 3):</b>	100 kg
<b>Emergency Response Plan trigger quantity (Schedule 5):</b>	100 kg
<b>Secondary Containment trigger quantity (Schedule 16):</b>	100 kg
<b>Record Keeping:</b>	A record of application records is required for this product. Refer to section 48 of Hazardous Substances (Hazardous Property Controls) Notice 2017
<b>Environmental exposure limits:</b>	None set.
<b>Tolerable exposure limits:</b>	None set
<b>15.2 ACVM Act 1997</b>	
<b>Registration number:</b>	P9736
	Refer to <a href="http://www.foodsafety.govt.nz">www.foodsafety.govt.nz</a> for registration conditions.

## SECTION 16: OTHER INFORMATION

### 16.1 Date of preparation or last revision of SDS

<b>SDS issued</b>	7 November 2023
<b>SDS supersedes</b>	26 March 2020
<b>Reason issued</b>	Update to GHS

### 16.2 ABBREVIATIONS

<b>ADI</b>	Acceptable Daily Intakes
<b>CAS number</b>	Chemical Abstracts Service Registry Number
<b>CCID</b>	Chemical Classification Identification Database
<b>EPA</b>	Environmental Protection Authority
<b>ErC<sub>50</sub></b>	Half maximal Effective Concentration
<b>GHS</b>	Globally Harmonized System of Classification and Labelling of Chemicals
<b>Hazchem Code</b>	Emergency action code of numbers and letters that provide information to emergency services especially firefighters
<b>HSNO</b>	Hazardous Substances and New Organisms
<b>HS</b>	Health and Safety
<b>HSR</b>	Hazardous Substances Register
<b>IARC</b>	International Agency for Research on Cancer
<b>LC<sub>50</sub></b>	Median Lethal Concentration
<b>LD<sub>50</sub></b>	Median Lethal Dose
<b>SDS</b>	Safety Data Sheets
<b>NOAEL</b>	No Observable Adverse Effect Level
<b>NOEL</b>	No Observable Effect Level
<b>NOS</b>	Not otherwise specified
<b>STEL</b>	Short Term Exposure Limit
<b>SWA</b>	Safety Work Australia



**TWA** Time-Weighted Average  
**UN Number** United Nations Number

**16.3 REFERENCES**

EPA CCID and Approved Substance databases

**16.4 OTHER**

HORTCARE™ is a trademark of Grosafe Chemicals Ltd

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