

# SAFETY DATA SHEET

# **GROLAN®**

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

1.1 Identifiers

Product name: GROLAN®

Other Name(s): Water dispersible granule containing Dithianon 700g/kg

1.2 Recommended use of the chemical and restrictions on use

Product Use: Fungicide for selective control of black spot on apples, pears and

grapes.

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:** HSR100837

**Hazard Classification:** Acute Oral Toxicity Cat.3, Acute Inhalation Toxicity Cat.4, Serious Eye Damage Cat.1, Skin Sensitisation Cat.1, Specific Target Organ Toxicity- repeated exposure Cat.1, Hazardous to the Aquatic environment Acute Cat.1, Hazardous to the Aquatic environment Chronic Cat.1, Hazardous to terrestrial vertebrates.

# 2.2 Label elements:

# Pictograms:



Signal Word: DANGER

# **Hazard statements:**

H301 Toxic if swallowed.

H317 May cause an allergic skin reaction. H318 Causes serious eye damage.

H332 Harmful if inhaled.

H372 Causes damage to organs through prolonged or repeated exposure.

H400 Very toxic to aquatic life.



H410 Very toxic to aquatic life with long-lasting effects.

**Prevention statements:** 

P102 Keep out of reach of children.

P103 Read label before use.

P260 Do not breathe dust/fume/gas/mist/vapors/spray.
P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
P264 Wash exposed parts of body thoroughly after handling.
P270 Do not eat, drink, or smoke when using this product.

P271 Use only outdoors or in a well-ventilated area.

P272 Contaminated work clothing should not be allowed out of the workplace.

P273 Avoid release to the environment.

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

**Response Statements:** 

P101 If medical advice is needed, have product container or label at hand P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor

P330 Rinse mouth.

P302+P352 IF ON SKIN: wash with plenty of water.

P333+P313 IF SKIN irritation or rash occurs: Get medical advice/attention.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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

P338 if present and easy to do - continue rinsing.

P310/312/314 Immediately call a POISON CENTER or doctor/physician and get medical

advice/attention if you feel unwell.

P321 Specific treatment (see label).

P362+P364 Take off contaminated clothing and wash it before reuse.

P391 Collect spillage.

**Storage Statements:** 

P405 Store locked up.

**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
Dithianon	3347-22-6	>60%
Sodium Lignosulfonate	8061-51-6	10-30%
Sodium dodecylbenzene sulfonate	25155-30-0	<10%
Kaolin	92704-41-1	10-30%

# **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 identifed.

### 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 100kg or more of this product invokes requirements for NZ HSWA Safety Controls (emergency response plan, secondary containment, signage and location certificate)

# SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

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

Ingredient	TWA (mg/m³)	STEL (mg/m³)
Respirable dust (not otherwise classified)	3	
Inhalable dust (not otherwise classified)	10	

### 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 Brown granules
Odour Characteristic
Odour threshold Not known

pH Approx. 5.0 (1% aqueous dispersion)

Melting/Freezing Point 217°C (for dithianon)

Boiling Point /Range Product is a non-volatile solid

Flash point Non flammable Flammability (solid, gas) Not applicable

Vapour Pressure 2.7x10<sup>-6</sup> @20°C (for dithianon)

Vapour density

No data available

Specific gravity/bulk density

500-600kg/m³ (20°C)

Solubility

Dispersible in water

Partition Co-efficient n-

octanol/water

K=3.2

Auto-ignition temperature No data available
Decomposition temperature No data available
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

Strong acids, strong alkalis.

# 10.5 Hazardous decomposition products

Fire Decomposition: Smoke, carbon oxides and 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

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

Acute toxicity: Classified as being acutely toxic. (Acute oral toxicity Cat 3 and

Acute inhalation toxicity Cat 4)

Acute oral toxicity

Experimental/calculated data:

LD50rat (oral): 273 mg/kg (Directive 84/449/EEC, B.1)

Acute inhalation toxicity LC50 rat (by inhalation):

Not inhalable due to the physico-chemical properties of the

product.

Assessment of acute toxicity

Of pronounced toxicity after single ingestion. Virtually nontoxic after a single skin contact. Virtually nontoxic by inhalation.

Skin corrosion/irritation Not classified.

Serious eye Classified as causing serious eye damage Cat 1. damage/irritation Experimental/calculated data:

Serious eye damage/irritation rabbit: (Directive 84/449/EEC, B.5)

Respiratory or skin

Sensitization after skin contact possible.

sensitisation Information on: Dithianon (Experimental/calculated data:

Guinea pig maximization test guinea pig: (OECD Guideline 406)

An aqueous solution was tested.)

Germ cell mutagenicity: Not classified. Carcinogenicity Not classified. Reproductive toxicity Not classified.

Specific target organ toxicity - single/repeated

exposure

Classified as STOT Repeated cat 1. Information on: Dithianon Assessment of repeated dose toxicity: Repeated exposure may

affect certain organs. Damages the 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 very toxic to aquatic life and with long lasting effects, and as hazardous to terrestrial vertebrates.

### 12.2 Environmental Fate

Information on: Dithianon: According to OECD criteria the product is not readily biodegradable but inherently biodegradable. Bioconcentration factor: 28 (3 d), Oncorhynchus mykiss (OECD Guideline 305 E). Does not accumulate in organisms.

# 12.3 Ecotoxicity data:

Dithianon Toxicity to fish: LC50 (96 h) 0.033 mg/l, Oncorhynchus mykiss

Aquatic invertebrates: EC50 (48 h) 0.157 mg/l, Daphnia magna Aquatic plants: EC50 (72 h) 0.091 mg/l, Selenastrum capricornutum Chronic toxicity to fish: LC50 (28 d) 0.002 mg/l, Oncorhynchus myki

# **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

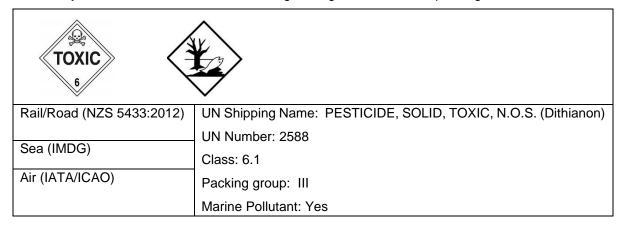
Refer to product label. Do not use packaging for storage of other products. Empty packaging should be disposed of to an approved pesticide recycler or crushed and sent to approved landfill.

### **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.





### **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.

### 15.2 HSWA Guidelines 2019

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:

Controlled Handlers - not required

Amount of substance that must be secured when unattended; any amount

Location Compliance Certificate: 1000kg

Emergency management plans and signage: 100kg

Fire Extinguishers: not required

15.3 ACVM Act 1997

Registration number: P010209 (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 10 September 2024

Version 1.0

SDS supersedes Not applicable
Reason issued New product

**16.2 ABREVIATIONS** 

ADI Acceptable Daily Intakes

**CAS number** Chemical Abstracts Service Registry Number CCID Chemical Classification Identification Database

**EPA** Environmental Protection Authority **ErC**<sub>50</sub> Half maximal Effective Concentration

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 RegisterHSWA Health & Safety at Work Act

IARC International Agency for Research on Cancer

**LC**<sub>50</sub> Median Lethal Concentration

**LD**<sub>50</sub> 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



SWASafety Work AustraliaTWATime-Weighted AverageUN NumberUnited Nations Number

### **GROLAN®** is a trademark of Grosafe Chemicals Limited.

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End of Safety Data Sheet