

# 1: Identification of the Substance and Supplier

Product Name SULCLEAN DF

Recommended Use Fungicide

**Suppliers Details** Orion AgriScience Ltd

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**Telephone Number** (03) 928 2386 (office hours), 0800 674 6627 (free phone)

 Emergency Telephone
 0800 CHEMCALL (0800 243 622) (24 hours)

 National Poison Centre
 0800 POISON (0800 764 766) (24 hours)

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# 2: Hazards Identification

#### **Hazard Pictograms**



#### **Signal Words**

## **Hazard Classes:**

6.4A Eye Irritation (Cat. 2)9.1D Aquatic Ecotoxicity (Cat. 4)

#### **Precautionary Statements:**

Prevention

Response

#### Warning

#### **Hazard Statements:**

H319 Causes serious eye irritation

H413 May cause long lasting harmful effects to aquatic life

P101 If medical advice is needed, have product container or label at hand

P102 Keep out of reach of children

P103 Read carefully and follow all instructions P264 Wash hands thoroughly after handling

P280 Wear eye protection / face protection

Avoid contact with eyes and skin. Do not breathe in the dust or spray mist. When mixing or applying, wear personal protection as described in section 8. Take all reasonable steps to ensure that this product does not cause any significant adverse effects to the environment beyond the application area. Do not apply directly into or onto water.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do so. Continue rinsing

P337+P317 If eye irritation persists: Get medical help

First aid measures described in section 4. Contain and collect spillage for disposal. In an emergency call 111, Police or Fire Brigade. For specialist advice in an emergency only,

call 0800 CHEMCALL (0800 243 6225) (24 hrs).

Storage Keep out of reach of children.

Disposal P501 Dispose of contents by using it in accordance with this label. Dispose of the

container via AgRecovery after triple rinsing (use the rinsate for spraying).

### 3: Composition/ Information on Ingredients

IngredientCAS NoContent (% w/w)Sulphur (active ingredient)7704-34-980Other ingredientsProprietaryRemainder

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#### 4: First Aid Measures

If medical advice is needed, have product container or label at hand. For advice call the National Poisons Centre or a Doctor

**Ingestion:** Seek medical advice if feeling unwell

**Skin Contact:** Wash with plenty of soap and water. Seek medical advice if skin irritation occurs

**Eye Contact:** Rinse cautiously with water for several minutes. Remove contact lenses, if easy to do so. Continue rinsing.

Seek medical advice if irritation persists.

**Inhalation:** Remove to fresh air and keep at rest in a position comfortable for breathing. Seek medical advice if feeling

unwell.

Workplace Facilities: Hand wash facility. Eye wash facility

Advice to Doctor: No specific requirements. Treat symptomatically.

National Poison Centre 0800 POISON (0800 764 766) (24 hours)

Symptoms of Exposure which could occur if this material is not handled in accordance with instructions:

Ingestion:No data availableSkin Contact:No data available

Eye Contact: Irritation

**Inhalation:** No data available

#### 5: Fire-Fighting Measures

Fire/Explosion Hazard Non-flammable. As with many dusts, an explosive air/dust mixture may be formed if rough handling

liberates dust from the granules in enclosed or poorly ventilated areas.

HAZCHEM Code Not applicable ERP Guide No Not applicable

**Extinguishing Media** Water spray, foam, dry chemical or C02. Avoid water jet.

Fire Fighting Instructions During a fire, toxic fumes may be emitted. Wear self-contained breathing apparatus. Contain runoff.

Specific Hazards Arising from Fire No data available

#### **6: Accidental Release Measures**

Personal Precautions Wear protective clothing as described in section 8. Do not inhale dust. Exclude non-essential people from

the area

**Environmental Precautions** Prevent further spillage or leakage. Prevent material from entering drains, waterways, etc.

Clean Up

Keep bystanders away. Do not inhale dust. If dust is generated, wear respiratory protection (with particulate

matter cartridge). Moisten to prevent dusting and carefully sweep up. Place spilled product in a sealable

container. Dispose of to a suitable landfill.

# 7: Handling and Storage

**Storage:** Keep out of reach of children. Store in the original tightly closed container in a secure area.

Handling and Use: Keep out of reach of children. Refer to Prevention statements in section 2 above. Keep people and animals

away from the area while spraying and for the duration of the REI.

REI Until spray has dried

#### 8: Exposure Controls / Personal Protection

Tolerable Exposure Limit

None established

Workplace Exposure Standards

None established

**Engineering Controls**Select spray application equipment to minimize exposure to operator and bystanders

Personal Protection:

**Eye** Safety glasses/goggles when mixing or applying

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**Skin**Cotton overalls snugly fitting at the neck, wrist and ankle, boots and water proof gloves when mixing and

applying

**Respiratory**Not required where dust or spray mist is not inhaled. Otherwise, respirator (organic vapour and particulate

matter) is required.

Clean protective equipment after use

#### 9: Physical and Chemical Properties

**Appearance** Light Brown Powder

**Odour** Sulphurous

Odour Threshold No data available

**pH** 6.5 – 8.5 (1% dispersion)

Melting Point/Freezing PointNo data availableBoiling PointNo data availableFlash PointNot applicableFlammabilityNot flammable

Upper/Lower Flammability Limits Not available. As with many dusts, an explosive air/dust mixture may be formed if rough handling liberates

dust in enclosed or poorly ventilated areas

 Vapour Pressure
 No data available

 Vapour Density
 No data available

 Relative Density
 0.8 g/mL (approx)

 Columbility in Materia
 Discountible

Solubility in Water
Partition Coefficient: n-octanol/water
See section 12
Auto ignition Temperature
Not applicable
Decomposition Temperature
No data available
Kinematic Viscosity
No data available

### 10: Stability and Reactivity

**Stability** Stable under normal conditions

Hazardous ReactionsNone ExpectedIncompatibilityNone ExpectedHazardous Decomposition ProductsNone Known

#### 11: Toxicological Information

This section describes effects which could occur if this material is not handled in accordance with this data sheet and label instructions

Acute Oral Toxicity LD50 > 5000 mg/kg
Acute Dermal Toxicity LD50 > 5000 mg/kg
Acute Inhalation Toxicity LD50 > 5 mg/L

Skin Irritant/Corrosive

Eye Irritant/Corrosive

Irritant

Sensitisation Effects

None

Mutagenic Effects

None

Carcinogenic Effects

None

Reproductive Effects

None

Specific Organ Toxicity

None

# 12: Ecological Information

This section describes effects which could occur if this material is not handled in accordance with this data sheet and label instructions

The following information is presented in respect of the active ingredient:

• LC50 (8 day) (Bobwhite quail) >5000 mg/kg

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• LC50 (48 hr) (Daphnia) >1000 mg/l

• LC50 (96 hr) (Green Algae) >100 mg/l

• Non – toxic to fish

Non-toxic to bees.

Persistence/degradability Biodegradable DT50 (soil) 30 days (typical)

**Bioaccumulative Potential** Octanol-water partition coefficient LogP = 0.23 (low)

Soil Mobility Soil organic carbon water partitioning coefficient Koc = 1950 (slightly mobile)

Environmental Exposure Limit: None established

# 13: Disposal Considerations

**Product** Dispose of product by using it in accordance with the label. Waste product should be disposed of to a

suitable landfill. For disposal of large quantities contact Orion AgriScience Ltd.

**Container** Dispose of to a suitable landfill or via AgRecovery. Do not burn. Do not use packaging for any other

purpose

#### **14: Transport Information**

**Dangerous Goods** 

**UN Number** Not Applicable – Not dangerous for transport

**Proper Shipping Name** Not Applicable – Not dangerous for transport

Class Not Applicable – Not dangerous for transport

Subsidiary Class Not Applicable – Not dangerous for transport

 Packing Group
 Not Applicable – Not dangerous for transport

Additional Information Not Applicable – Not dangerous for transport

MTQ (Non-Commercial) Not Applicable – Not dangerous for transport

Passenger Service Vehicle No restriction

## 15 Regulatory Information

**EPA Approval No** HSR000741

ACVM Registration No P4853

Qualified PersonNot requiredCertified HandlerNot required

Workplace Only No

Tracking Not required
Record Keeping Not required

Site Requirements under EPA Notice

and HSWHS Regs:

- A hazardous substance location compliance certificate is not required
- A hazardous area is not required
- Separation distances for class 3 and class 6 substances to protected places and public places is not applicable
- Fire extinguishers are not required
- Signage is required for more than 10000 Kg
- An emergency response plan is required for more than 10000 Kg
- Secondary containment is not required
- Segregation from incompatible substances is not required

Additional Requirements Refer to NZS 8409:2004 'Management of Agrichemicals', and relevant local and regional council plans

## 16: Other Information

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ADE

Acceptable Daily Exposure - A daily dose, received via any route, below which no adverse effects are

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expected over a lifetime of exposure

**ACVM** Agricultural Compounds and Veterinary Medicines group of the Ministry of Primary Industries

**Cat.** GHS category

Ceiling A concentration that should not be exceeded at any time during any part of the working day

Certified Handler A qualification issued by a Compliance Certifier to handle and use particularly toxic substances (6.1A and

6.1B)

**DT50** Time (days) for 50% reduction in concentration

**EC50** Concentration required to produce an effect in 50% of organisms

Environmental Exposure Limit Maximum concentration limit of a substance in an environmental medium, e.g., water, soil.

**EPA Notice** Hazardous Property Controls Notice 2017

ERP Guide Dangerous Goods – Initial Emergency Response Guide SNZ HB 76:2008

GHS Globally harmonized system of classification and labelling of chemicals

**Hazardous Substance Location** For locations storing hazard substances of certain classes above threshold quantities

**Compliance Certificate** 

Hazardous Area A designated area designed for the presence of flammable substances - Refer AS/NZS 60079.10.1:2009

**HAZCHEM Code** Emergency action code for emergency services

HSWHS Regs Health and Safety at Work (Hazardous Substances) Regulations 2017

LC50 Concentration that will kill 50% of organisms

**LD50** Dose that will kill 50% or organisms

MTQ Maximum Transport Quantity. The maximum amount of dangerous goods that can be transported by road

by the user

**Notification** Advance notice given to neighbours and other affected parties, of details of proposed application, and

other details as described

Octanol-Water Partition Coefficient

The partition coefficient of a substance between n-octanol and water, used as the Logarithm base 10

form, as an indicator that a substance may bioaccumulate

PDE Permitted Daily Exposure - A daily dose below which no adverse effects are expected over a lifetime of

exposure

**Protected Place** Residential properties, schools, hospitals, kindys, factories, shops, warehouses, etc., and other places where

people assemble

Public Place A place frequented by the public, including roads (does not include private property)

Qualified Person A requirement for the loader, contractor or person applying the product to hold a qualification such as a

GROWSAFE Certificate, Unit Standard 21563, etc.

**Record Keeping** Includes a spray diary or other record of application

**REI** Restricted Entry Interval – The length of time after application before entry into the treated area is

permitted without the use of protective equipment. For indoor environments, this time period commences

once ventilation after treatment begins.

**Segregation** Certain classes of substances must not be in contact with, and must be stored separately from, certain

other classes as specified in HSWHS Regs

Separation Distances The distances specified in Part 11 and Part 13 of HSWHS Regs between storage and/or use of hazardous

substances and protected places and/or public places

**Signage** Positioned at entrances to commercial premises providing information on the hazardous substances

oresent

Soil Adsorption Coefficient (Kd)

The ratio of the concentrations of a substance adsorbed onto a solid sorbent to that dissolved in a liquid

phase. The higher the value the less mobile the chemical is in soil

Soil Organic Carbon-Water

The ratio of the mass of a chemical that is adsorbed in the soil per unit mass of organic carbon in the soil.



Partitioning Coefficient (Koc) The higher the value the less mobile the chemical is in soil

Short term exposure level – 15 minute time weighted average

Tolerable Exposure Limit Maximum concentration limit of a substance above which persons must not be exposed

**Tracking** For some particularly hazardous substances, a record must be kept of the transport, storage, sale and use

of the product

TWA Time weighted average calculated over an 8 hour working day

Workplace Exposure Standard

An occupational health standard limiting concentrations of specified substances to which persons are

exposed

Workplace Only A product that is restricted to a workplace only and under the supervision of a certified handler

Please Note

Users must ensure that the most up to date version of this safety data sheet is used.

This Safety Data Sheet summarises information on this product, and how to safely handle and use the product. Each user should familiarise themselves with the product label and Safety Data Sheet, and consider the information in the context of how the product will be handled and used, including in conjunction with other products. Orion AgriScience Ltd assumes no responsibility for the accuracy, completeness or suitability of this information. The user is responsible for determining the suitability and accuracy of this information for their particular purposes.

If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company.

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