

# SAFETY DATA SHEET

## SULCLEAN

### 1: Identification of the Substance and Supplier

Product Name	SULCLEAN
Recommended Use	Fungicide
Company Details	Orion AgriScience Ltd Unit 1, 15 Sir Gil Simpson Drive, Harewood, Christchurch, 8053 PO Box 39 071, Harewood, Christchurch, 8545
Web Address	www.orionagriscience.co.nz
Email Address	orders@orionagriscience.co.nz
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)
Date of Issue/Revision	July 2015

### 2: Hazards Identification

Priority Identifiers:



Priority Identifiers:

HSNO Classes:

6.4A

9.1D

Secondary Identifiers:

May cause eye irritation

Harmful to aquatic organisms

### 3: Composition/ Information on Ingredients

Ingredient	CAS No	Content (% w/v)
Sulphur (active ingredient)	7704-34-9	80
Other ingredients, filler, surfactants, etc	Proprietary	Remainder

### 4: First Aid Measures

Skin Contact:	In case of contact, immediately wash affected area with soap and water. Wash contaminated clothing before reuse. Seek medical advice if irritation persists.
Eye Contact:	Hold eyes open and rinse with water for at least 15 minutes. Remove contact lenses if easy to do so. Seek medical advice immediately.
Ingestion:	Do not induce vomiting. Seek medical advice immediately.
Inhalation:	Immediately move to fresh air and rest. Maintain half upright position if breathing is difficult. 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)

### 5: Fire-Fighting Measures

Fire/Explosion Hazard	May be combustible in a fire. As with many dusts, an explosive air/dust mixture may be formed if rough handling liberates dust in enclosed or poorly ventilated areas.
HAZCHEM Code	2Z
ERP Guide No	47
Extinguishing Media	Water spray, foam, dry chemical or CO <sub>2</sub> . Avoid water jet.
Fire Fighting Instructions	During a fire, toxic fumes may be emitted. Wear self-contained breathing apparatus. Contain runoff.

### 6: Accidental Release Measures

Exclude non-essential people from the area. Wear protective clothing as described in section 8. Do not inhale dust. Moisten to prevent dusting and carefully sweep up. Place in a waste container. Dispose of safely to a suitable landfill

### 7: Storage, Handling and Use

<p><b>Storage:</b></p> <p><b>Handling and Use:</b></p> <p><b>Approved Handler</b></p> <p><b>Tracking</b></p> <p><b>Record Keeping</b></p> <p><b>REI</b></p> <p><b>Site Requirements under the HSNO Act 1996 and HSNO Regulations:</b></p> <p><b>Additional Requirements</b></p>	<p>Keep out of reach of children. Store in the original packaging in a secure area away from foodstuffs. Keep out of reach of children. Avoid contact with eyes and skin. Avoid inhalation of dust or spray mist. When mixing or applying, wear protective clothing as described in section 8. Do not eat, drink or smoke while using. Wash hands and face after use. Wash protective clothing after use.</p> <p>Not required.</p> <p>Not required.</p> <p>Not required.</p> <p>Until spray has dried</p> <ul style="list-style-type: none"> <li>• A location test certificate is not required</li> <li>• A hazardous atmosphere zone is not required</li> <li>• Fire extinguishers are not required</li> <li>• Signage is required for 10000 Kg or more</li> <li>• Emergency information is required for 50 Kg or more</li> <li>• An emergency plan is required for more than 10000 Kg</li> <li>• Secondary containment is not required.</li> <li>• Separation/Segregation from incompatible substances is not applicable.</li> </ul> <p>All aspects of storage, handling, use, disposal and record keeping must be in accordance with NZS 8409:2004 'Management of Agrichemicals', and relevant local and regional council plans.</p>
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### 8: Exposure Control / Personal Protection

<p><b>Tolerable Exposure Limit</b></p> <p><b>Workplace Exposure Standards</b></p> <p><b>Engineering Controls</b></p> <p><b>Personal Protection:</b></p> <p><b>Eye</b></p> <p><b>Skin</b></p> <p><b>Respiratory</b></p>	<p>None established.</p> <p><b>Product</b> – None established (Use lowest practicable level).  <b>Active ingredient</b> – None established (Use lowest practicable level).  <b>Excipients</b> – None established (Use lowest practicable level).</p> <p>Limited given nature of use.</p> <p>Safety glasses/goggles when mixing or applying.</p> <p>Cotton overalls snugly fitting at the neck, wrist and ankle, boots and waterproof gloves. Wear head covering for overhead applications.</p> <p>Not required where dust or spray mist is not inhaled. Otherwise, respirator (organic vapour and particulate matter) is required.</p>
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### 9: Physical and Chemical Properties

<p><b>Form</b></p> <p><b>Odour</b></p> <p><b>Boiling Point</b></p> <p><b>Flash Point</b></p> <p><b>Auto ignition Temperature</b></p> <p><b>Explosive Limits</b></p> <p><b>Density</b></p> <p><b>Vapour Pressure</b></p> <p><b>Vapour Density</b></p> <p><b>Solubility in Water</b></p> <p><b>pH</b></p> <p><b>Oxidising Properties</b></p> <p><b>Corrosive Properties</b></p>	<p>Brown Granules</p> <p>Sulphur</p> <p>Not available</p> <p>Not applicable</p> <p>Not applicable</p> <p>Not available. As with many dusts, an explosive air/dust mixture may be formed if dust is liberated in enclosed or poorly ventilated areas.</p> <p>0.85 g/mL (approx)</p> <p>Not volatile</p> <p>Not volatile</p> <p>Dispersible</p> <p>6.5 – 8.5 (1% dispersion)</p> <p>Not an oxidizer</p> <p>Not a corrosive</p>
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### 10: Stability and Reactivity

<p><b>Stability</b></p> <p><b>Incompatibility</b></p> <p><b>Decomposition</b></p> <p><b>Dangerous Reactions</b></p>	<p>Stable under normal conditions.</p> <p>Avoid mixing with strong acids and alkalis, and oxidizing agents such as chlorine compounds, ammonium nitrate, etc.</p> <p>Decomposition will not occur under normal conditions.</p> <p>Products arising from combustion or thermal decomposition may be toxic, corrosive or flammable.</p>
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### 11: Toxicological Information

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

<p><b>Swallowed</b></p> <p><b>Eye</b></p> <p><b>Skin</b></p> <p><b>Inhalation</b></p>	<p>Harmful</p> <p>Irritation</p> <p>Irritation</p> <p>Harmful</p>
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**Note: Symptoms may be delayed for up to 24 hours or more following exposure**

<p><b>Acute Toxicity (Active Ingredient)</b></p>	<ul style="list-style-type: none"> <li>• Acute Oral LD50 (Rat) &gt;5000 mg/kg</li> <li>• Acute Dermal LD50 (Rat) &gt;5000 mg/kg</li> </ul>
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- Inhalation LC50 1660 mg/m<sup>3</sup>

Sensitisation Effects	None
Mutagenic Effects	None
Carcinogenic Effects	None
Reproductive Effects	None
Teratogenic (Birth) Effects	None
Systemic Effects	None

### 12: Ecotoxicity Information

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

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

Ecotoxic Effects	<ul style="list-style-type: none"> <li>• LC50 (8 day) (Bobwhite quail) &gt;5000 mg/kg</li> <li>• LC50 (48 hr) (Daphnia) &gt;1000 mg/l</li> <li>• LC50 (96 hr) (Green Algae) &gt;100 mg/l</li> <li>• Non – toxic to fish</li> <li>• Non - toxic to bees.</li> </ul>
Environmental Fate	Biodegradable. DT50 (soil) 1000 days (typical)
Partition Co-Efficient (Kow)	LogP = 0.23 (low)
Environmental Exposure Limit:	None established.

### 13: Disposal Considerations

Product	Dispose of product by using it in accordance with the label. Do not burn. 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 agricultural recycling scheme. Do not burn. Do not use packaging for any other purpose.

### 14: Transport Information

Dangerous Goods:	Not dangerous for transport
Passenger Service Vehicle:	Maximum quantity 3 Kg

### 15: Regulatory

HSNO Approval No	HSR000741
ACVM Registration No	P4853

### 16: Other Information

Glossary	
Approved Handler	For some hazardous substances, persons storing, handling and using must be trained and certified
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.
ERP Guide	Dangerous Goods – Initial Emergency Response Guide SNZ HB 76:2008
HAZCHEM Code	Emergency action code for emergency services
HSNO	Hazardous Substances and New Organisms
LC50	Concentration that will kill 50% of organisms
LD50	Dose that will kill 50% of organisms
MTQ	Maximum Transport Quantity. The maximum amount of dangerous goods that can be transported by road by the user
Partition Co-Efficient Kow	Ratio of concentration between octanol and water. Values are given as the log value. A high value indicates a substance may bioaccumulate
Record Keeping	Includes a spray diary
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.
Safety Note	A brief document providing hazardous substance information for transport, storage and emergency management

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<b>STEL</b>	purposes
<b>Tolerable Exposure Limit</b>	Short term exposure level
<b>Tracking</b>	Maximum concentration limit of a substance above which persons must not be exposed
<b>TWA</b>	For some hazardous substances, a record must be kept of the transport, storage, sale and use of the product
<b>Workplace Exposure Standard</b>	Time weighted average
<b>Wide Dispersive Use</b>	An occupational health standard limiting concentrations of specified substances to which persons are exposed
	A method of application involving equipment such as boom sprayers, mist blowers, vine sprayers, row sprayers, etc., as well as aerial application. Hand gunning within 30m of a property boundary is also classed as wide dispersive use. Knapsack sprayers are not classed as wide dispersive use
<b>Please Note</b>	

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, Safety Note 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. Always read the product label before use.