

1: Identification of the Substance and Supplier

Product Name	DUSK
Recommended Use	Slucicide
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

Hazard Pictograms	(None)
Priority Identifiers:	Ecotoxic
HSNO Classes:	Secondary Identifiers:
9.1D	Ecotoxic to aquatic organisms

3: Composition/ Information on Ingredients

Ingredient	CAS No	Content (% w/w)
Sodium ferredetate (active ingredient)	15708-41-5	5
Other ingredients	Proprietary	Remainder

4: First Aid Measures

Skin Contact:	Non-hazardous. Repeated or prolonged exposure may cause irritation to sensitive skin. Seek medical advice if irritation persists.
Eye Contact:	Granules or dust may cause irritation. Hold eyes open and rinse with water for at least 15 minutes. Remove contact lenses if easy to do so. Seek medical advice if irritation persists.
Ingestion:	Product is essentially non-toxic. Ingestion of a substantial quantity could result in discomfort, irritation or physical obstruction of the gastro intestinal system, abdominal pain with nausea, vomiting, diarrhea or constipation. Rinse mouth thoroughly with water. Seek medical advice if feeling unwell.
Inhalation:	Dust may cause irritation of the respiratory tract, lungs and throat. Seek medical advice if feeling unwell.
Workplace Facilities:	None specifically required.
Advice to Doctor:	Poisoning with this product is unlikely. Treat symptomatically and empty stomach contents to relieve discomfort if necessary. The organic components of this product limit the absorption of the active ingredient. Absorption may be further reduced by raising stomach pH with 1.5% sodium bicarbonate solution.
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	None
ERP Guide No	None
Extinguishing Media	Water spray, foam, dry chemical or CO2.
Fire Fighting Instructions	None specified

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

Storage:	Keep out of reach of children. Store in the original packaging, in a secure area.
Handling and Use:	Keep out of reach of children. Wash hands after use.
Approved Handler	Not required.
Tracking	Not required.
Record Keeping	Not required.
REI	Not required
Site Requirements under the HSNO Act 1996 and HSNO Regulations:	<ul style="list-style-type: none"> • A location test certificate is not required • A hazardous atmosphere zone is not required • Fire extinguishers are not required • Signage is required for 10 000 Kg or more • Emergency information is required for 50 Kg or more • An emergency plan is required for more than 10 000 Kg • Secondary containment is not required. • Separation/Segregation from incompatible substances is not applicable.
Additional Requirements	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.

8: Exposure Control / Personal Protection

Tolerable Exposure Limit	None established.
Workplace Exposure Standards	Product – None established (Use lowest practicable level). Active ingredient – None established (Use lowest practicable level). Excipients – None established (Use lowest practicable level).
Engineering Controls	Limited given nature of use.
Personal Protection:	
Eye	Eye protection not required unless application method may result in granules hitting the face.
Skin	Not required.
Respiratory	Not required where dust is not inhaled. Otherwise, respirator (particulate matter) is required.

9: Physical and Chemical Properties

Form	Green Granules
Odour	None
Boiling Point	Not available
Flash Point	Not applicable
Auto ignition Temperature	Not applicable
Explosive 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.
Density	1.00 – 1.20 g/mL
Vapour Pressure	Not available
Vapour Density	Not volatile
Solubility in Water	Insoluble
pH	Not applicable
Oxidising Properties	Not an oxidizer
Corrosive Properties	Not a corrosive

10: Stability and Reactivity

Stability	Stable under normal conditions.
Incompatibility	Avoid mixing with strong acids and strong alkalis.
Decomposition	Decomposition will not occur under normal conditions.
Dangerous Reactions	Products arising from combustion, reaction, or thermal decomposition may be toxic, corrosive or flammable.

11: Toxicological Information

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

Swallowed	Ingestion of a substantial quantity could result in discomfort, irritation or physical obstruction of the gastro intestinal system, abdominal pain with nausea, vomiting, diarrhea or constipation.
Eye	Granules or dust may cause irritation of the eye.
Skin	Repeated or prolonged exposure may cause irritation to sensitive skin.
Inhalation	Dust may cause irritation of the respiratory tract, lungs and throat.
Acute Toxicity (Active Ingredient)	Acute Oral LD50 2000 - 2200 mg/kg
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"> LC50 (96 hr) (Freshwater fish) 41 mg/l Non - toxic to bees, insects and earthworms.
Environmental Fate	Biodegradable. DT50 (soil) 7 – 10 days.
Partition Co-Efficient (Kow)	Not available
Environmental Exposure Limit:	None set

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:	No restriction

15: Regulatory

HSNO Approval No	HSR000144
ACVM Registration No	P8179

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% or 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 purposes
STEL	Short term exposure level
Tolerable Exposure Limit	Maximum concentration limit of a substance above which persons must not be exposed
Tracking	For some hazardous substances, a record must be kept of the transport, storage, sale and use of the product
TWA	Time weighted average
Workplace Exposure Standard	An occupational health standard limiting concentrations of specified substances to which persons are exposed
Wide Dispersive Use	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
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

SAFETY DATA SHEET

DUSK



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.