


# SAFETY DATA SHEET

## ACTELIC DUST

### 1: Identification of the Substance and Supplier

<b>Product Name</b>	<b>ACTELIC DUST</b>
<b>Recommended Use</b>	Insecticide
<b>Suppliers Details</b>	Orion AgriScience Ltd Unit 1, 15 Sir Gil Simpson Drive, Harewood, Christchurch, 8053 PO Box 39 071, Harewood, Christchurch, 8545
<b>Web Address</b>	<a href="http://www.orionagriscience.co.nz">www.orionagriscience.co.nz</a>
<b>Email Address</b>	<a href="mailto:orders@orionagriscience.co.nz">orders@orionagriscience.co.nz</a>
<b>Telephone Number</b>	(03) 928 2386 (office hours), 0800 674 6627 (free phone)
<b>Emergency Telephone</b>	0800 CHEMCALL (0800 243 622) (24 hours)
<b>National Poison Centre</b>	0800 POISON (0800 764 766) (24 hours)
<b>Date of Issue/Revision</b>	November 2024

### 2: Hazards Identification

<b>Hazard Pictograms</b>	
<b>Signal Words</b>	<b>Warning</b>
<b>Hazard Classes:</b> Reproductive Toxicity (Cat. 2) Specific Target Organ Toxicity repeated exposure (Cat. 2) Hazardous to the aquatic environment acute (Cat. 1) Hazardous to the aquatic environment chronic (Cat. 1) Hazardous to Terrestrial Vertebrate Hazardous to Terrestrial Invertebrate	<b>Hazard Statements:</b> H361 Suspected of damaging fertility or the unborn child H373 May cause damage to organs through prolonged or repeated exposure H400 Very toxic to aquatic life H410 Very toxic to aquatic life with long lasting effects H433 Harmful to terrestrial vertebrates H443 Harmful to terrestrial invertebrates
<b>Precautionary Statements:</b> Prevention	P103 Read carefully and follow all instructions P201 Obtain special instructions before use P202 Do not handle until all safety precautions have been read and understood P203 Obtain read and follow all safety instructions before use P260 Do not breathe dust/fume/gas/mist/vapours/spray P273 Avoid release to the environment P280 Wear protective gloves/protective clothing/eye protection/face protection Keep out of reach of children. Read label before use. Obtain special instructions before use. Do not use until all safety precautions have been read and understood. Avoid contact with eyes and skin. Do not breathe in the dust. When mixing or applying, wear personal protection as described in section 8. Avoid release to the environment. 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.
<b>Response</b>	P318 If exposed or concerned, get medical advice P308+P313 If exposed or concerned: Get medical advice/attention

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Storage

Disposal

P314 Get medical advice/attention if you feel unwell

P391 Collect spillage

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).

P405 Store locked up

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

Dispose of packaging to a suitable landfill or agricultural recycling scheme. Do not use container for any other purpose.

### 3: Composition/ Information on Ingredients

Ingredient	CAS No	Content (% w/w)
Pirimiphos-methyl (active ingredient)	29232-93-7	2
Other ingredients	Proprietary	Remainder

### 4: First Aid Measures

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

<b>Ingestion:</b>	Call the Poisons Centre on 0800 POISON (0800 764 766), or a Doctor if feeling unwell.
<b>Skin Contact:</b>	Wash with plenty of soap and water. Seek medical advice if irritation or rash occurs, or if feeling unwell.
<b>Eye Contact:</b>	Rinse cautiously with water for several minutes. Remove contact lenses, if easy to do so. Continue rinsing. Seek medical advice if irritation persists.
<b>Inhalation:</b>	Remove to fresh air and keep at rest in a position comfortable for breathing. Seek medical advice if feeling unwell.
<b>Workplace Facilities:</b>	Hand wash facility. Eye wash facility
<b>Advice to Doctor:</b>	Actellic Dust is an organophosphorus insecticide, which inhibits cholinesterase activity, and interferes in nerve pulse transmission. Onset of symptoms may be delayed for several hours. Atropine is the specific antidote and may be given immediately by qualified staff, at a level of 2 - 5mg (intravenously or intramuscularly), every 20 minutes until atropinisation occurs. Considerable amounts of atropine may be necessary. Atropine must NOT be given to cyanosed patients; administer oxygen first. Do NOT use opiates or barbiturates. If convulsions occur, administer diazepam (10mg intravenously). Take venous blood sample for determination of blood cholinesterase activity. Cholinesterase reactivators (Pralidoxime) should, if possible, be given at the same time as atropine. They are not effective after 24 hours post exposure and are not substitutes for atropine. Pralidoxime should be administered at: Mild poisoning: 1g in 2 - 3ml water (intramuscularly), Severe poisoning: 2g in 30ml water (intravenously). Following ingestion, adsorbents such as charcoal may be of value.
<b>National Poison Centre</b>	0800 POISON (0800 764 766) (24 hours)

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

<b>Ingestion:</b>	Excessive sweating, salivation, headache, weakness, faintness, nausea, diarrhoea, small pupils, blurred vision, muscle twitching
<b>Skin Contact:</b>	Irritation
<b>Eye Contact:</b>	Irritation
<b>Inhalation:</b>	Irritation

### 5: Fire-Fighting Measures

<b>Fire/Explosion Hazard</b>	Non-flammable but 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.
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HAZCHEM Code	2Z
ERP Guide No	47
Extinguishing Media	Water spray, foam, dry chemical or CO2. 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	Moisten to prevent dusting and carefully sweep up. Collect and place in a sealable container for disposal. Wash down affected area with water and detergent. Absorb and collect washings for disposal. Dispose of safely to a suitable landfill.

### 7: Handling and Storage

Storage:	Keep out of reach of children. Store in the original tightly closed container in a locked and secure area.
Handling and Use:	Refer to Prevention statements in section 2 above. Exclude people and animals from the application area, both during application and for the duration of the REI.
REI	None

### 8: Exposure Controls / Personal Protection

Tolerable Exposure Limit	None established
Workplace Exposure Standards	None established
Engineering Controls	Select application equipment to minimize exposure to operator and bystanders
Biological Monitoring	Regular users in direct contact (mixing and application) should undergo biological monitoring of cholinesterase activity. Consult with your GP or Occupational Health Adviser.
Personal Protection:	
	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	Safety glasses/goggles when mixing or applying
Skin	Cotton overalls snugly fitting at the neck, wrist and ankle, boots and gloves (PVC, nitrile, neoprene) when handling or applying
Respiratory	Respirator (organic vapour and particulate matter) when handling or applying.
Clean protective equipment after use	

### 9: Physical and Chemical Properties

Appearance	Grey/Brown Dust
Odour	Non specific
Odour Threshold	Does not apply
pH	Does not apply
Melting Point/Freezing Point	Does not apply
Boiling Point	Does not apply
Flash Point	Does not apply
Flammability	Non-flammable but will be combustible in a fire
Upper/Lower Flammability Limits	Does not apply. 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	Does not apply
Vapour Density	Does not apply

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Relative Density	Does not apply
Solubility in Water	Does not apply
Partition Coefficient: n-octanol/water	See section 12
Auto ignition Temperature	Does not apply
Decomposition Temperature	Does not apply
Kinematic Viscosity	Does not apply
Particle characteristics	Does not apply

### 10: Stability and Reactivity

Stability	Stable under normal conditions
Hazardous Reactions	None Expected
Incompatibility	None Known
Hazardous Decomposition Products	None 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	Not expected to be skin irritant or corrosive hazard
Serious eye damage/ eye irritation	Not expected to be cause eye damage or irritation
Respiratory or skin sensitisation	Not expected to be a respiratory sensitiser
Germ cell mutagenicity	Not expected to be a mutagenetic hazard
Carcinogenicity	Not expected to be a carcinogenic hazard
Reproductive toxicity	Animal feeding studies on rats found pirimiphos-methyl decreased mating performance and pregnancy rate over 3 – 4 generations
Specific Target Organ Toxicity – single exposure	Pirimiphos-methyl is an organophosphorus compound and Interferes with cholinesterase, an enzyme essential for the correct functioning of the nervous system
Specific Target Organ Toxicity – repeated exposure	Pirimiphos-methyl is an organophosphorus compound and Interferes with cholinesterase, an enzyme essential for the correct functioning of the nervous system
Aspiration hazard	Not expected to be an aspiration hazard

### 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:

Aquatic	<ul style="list-style-type: none"> <li>Acute Oral LD50 (Bobwhite quail) 40 mg/kg</li> <li>LC50 (96 hr) (Rainbow trout) 0.64 mg/l</li> <li>LC50 (48 hr) (Daphnia) 0.21 µg/l</li> <li>Algae EC50 1.0 mg/l</li> <li>Bee LD50 (24 hr) &gt; 0.22 µg/bee</li> </ul>	
Persistence/degradability	Biodegradable. DT50 (soil) 3.5 – 30 days	
Bioaccumulative Potential	Octanol-water partition coefficient	LogP = 4.2 (high)
Soil Mobility	Soil organic carbon water partitioning coefficient	Koc = 1100 (slightly mobile)
Environmental Exposure Limit:	None established	

### 13: Disposal Considerations

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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	3077
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (PIRIMIPHOS-METHYL 2%)
Class	9
Subsidiary Class	None
Packing Group	III
Additional Information	MARINE POLLUTANT
MTQ (Non-Commercial)	1000 Kg
Passenger Service Vehicle	No restriction

### 15 Regulatory Information

EPA Approval No	HSR000197
ACVM Registration No	P3591
Qualified Person	Required. This product must only be handled, mixed and applied by a suitably qualified person as defined under the HPC notice 2017 Part 4C
Certified Handler	Not required
Workplace Only	No
Tracking	Not required
Record Keeping	Required If 3 kg or more is applied within 24 hours in a place where Actellic Dust is likely to enter air or water and leave the application area, the person in control must ensure that a written record is kept for each application.
Site Requirements under EPA Notice and HSWHS Regs:	<ul style="list-style-type: none"><li>• A hazardous substance location compliance certificate is not required</li><li>• A hazardous area is not required</li><li>• Separation distances for class 3 and class 6 substances to protected places and public places is not applicable</li><li>• Fire extinguishers are not required</li><li>• Signage is required for more than 100 Kg</li><li>• An emergency response plan is required for more than 100 Kg</li><li>• Secondary containment is required for more than 100 Kg</li><li>• Separation/Segregation from incompatible substances (classes 1, 2, 3.2, 4 and 5) is not required</li></ul>
Additional Requirements	Refer to NZS 8409:2004 'Management of Agrichemicals', and relevant local and regional council plans

### 16: Other Information

Date of last sds revision	November 2024
ADE	Acceptable Daily Exposure – A daily dose, received via any route, below which no adverse effects are 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

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<b>EC50</b>	Concentration required to produce an effect in 50% of organisms
<b>Environmental Exposure Limit</b>	Maximum concentration limit of a substance in an environmental medium, e.g., water, soil.
<b>EPA Notice</b>	Hazardous Property Controls Notice 2017
<b>ERP Guide</b>	Dangerous Goods – Initial Emergency Response Guide SNZ HB 76:2008
<b>GHS</b>	Globally harmonized system of classification and labelling of chemicals
<b>Hazardous Substance Location</b>	For locations storing hazard substances of certain classes above threshold quantities
<b>Compliance Certificate</b>	
<b>Hazardous Area</b>	A designated area designed for the presence of flammable substances - Refer AS/NZS 60079.10.1:2009
<b>HAZCHEM Code</b>	Emergency action code for emergency services
<b>HSWHS Regs</b>	Health and Safety at Work (Hazardous Substances) Regulations 2017
<b>LC50</b>	Concentration that will kill 50% of organisms
<b>LD50</b>	Dose that will kill 50% of organisms
<b>MTQ</b>	Maximum Transport Quantity. The maximum amount of dangerous goods that can be transported by road by the user
<b>Notification</b>	Advance notice given to neighbours and other affected parties, of details of proposed application, and other details as described
<b>Octanol-Water Partition Coefficient</b>	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
<b>Protected Place</b>	Residential properties, schools, hospitals, kindys, factories, shops, warehouses, etc., and other places where people assemble
<b>Public Place</b>	A place frequented by the public, including roads (does not include private property)
<b>Qualified Person</b>	A requirement for the loader, contractor or person applying the product to hold a qualification such as a GROWSAFE Certificate, Unit Standard 21563, etc.
<b>Record Keeping</b>	Includes a spray diary or other record of application
<b>REI</b>	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.
<b>Separation Distances</b>	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
<b>Signage</b>	Positioned at entrances to commercial premises providing information on the hazardous substances present
<b>Soil Adsorption Coefficient (Kd)</b>	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
<b>Soil Organic Carbon-Water Partitioning Coefficient (Koc)</b>	The ratio of the mass of a chemical that is adsorbed in the soil per unit mass of organic carbon in the soil. The higher the value the less mobile the chemical is in soil
<b>STEL</b>	Short term exposure level – 15 minute time weighted average
<b>Tolerable Exposure Limit</b>	Maximum concentration limit of a substance above which persons must not be exposed
<b>Tracking</b>	For some particularly hazardous substances, a record must be kept of the transport, storage, sale and use of the product
<b>TWA</b>	Time weighted average calculated over an 8 hour working day
<b>Workplace Exposure Standard</b>	An occupational health standard limiting concentrations of specified substances to which persons are exposed
<b>Workplace Only</b>	A product that is restricted to a workplace only and under the supervision of a certified handler
<b>Please Note</b>	

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

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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.