

### 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>	www.orionagriscience.co.nz
<b>Email Address</b>	orders@orionagriscience.co.nz
<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>	April 2020

### 2: Hazards Identification

#### Hazard Pictograms



#### Signal Words

##### Hazard Classes:

- 6.8B Reproductive Toxicity (Cat. 2)
- 6.9B Target Organ Systemic Toxicity (Oral Cat. 2)
- 9.1A Aquatic Ecotoxicity (Cat. 1)
- 9.3C Terrestrial Vertebrate Ecotoxicity
- 9.4C Terrestrial Invertebrate Ecotoxicity

##### Precautionary Statements:

Prevention

Response

#### Warning

##### Hazard Statements:

- Suspected of damaging fertility or the unborn child
- May cause damage to organs through prolonged or repeated exposure
- Very toxic to aquatic organisms with long lasting effects
- Harmful to terrestrial vertebrates
- Harmful to terrestrial invertebrates

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.

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).

### 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.

#### Ingestion:

Call the Poisons Centre on 0800 POISON (0800 764 766), or a Doctor if feeling unwell.

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<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.
<b>HAZCHEM Code</b>	2Z
<b>ERP Guide No</b>	47
<b>Extinguishing Media</b>	Water spray, foam, dry chemical or CO2. Avoid water jet.
<b>Fire Fighting Instructions</b>	During a fire, toxic fumes may be emitted. Wear self-contained breathing apparatus. Contain runoff.
<b>Specific Hazards Arising from Fire</b>	No data available

### 6: Accidental Release Measures

<b>Personal Precautions</b>	Wear protective clothing as described in section 8. Do not inhale dust. Exclude non-essential people from the area.
<b>Environmental Precautions</b>	Prevent further spillage or leakage. Prevent material from entering drains, waterways, etc.
<b>Clean Up</b>	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

<b>Storage:</b>	Keep out of reach of children. Store in the original tightly closed container in a locked and secure area.
<b>Handling and Use:</b>	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.
<b>REI</b>	None

### 8: Exposure Controls / Personal Protection

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

Clean protective equipment after use

### 9: Physical and Chemical Properties

<b>Appearance</b>	Grey/Brown Dust
<b>Odour</b>	Non specific
<b>Odour Threshold</b>	No data available
<b>pH</b>	Not Applicable
<b>Melting Point/Freezing Point</b>	No data available
<b>Boiling Point</b>	Not Applicable
<b>Flash Point</b>	Not Applicable
<b>Flammability</b>	Non-flammable but will be combustible in a fire
<b>Upper/Lower Flammability Limits</b>	Not Applicable. As with many dusts, an explosive air/dust mixture may be formed if rough handling liberates dust in enclosed or poorly ventilated areas
<b>Vapour Pressure</b>	No data available
<b>Vapour Density</b>	No data available
<b>Relative Density</b>	No data available
<b>Solubility in Water</b>	Not Applicable
<b>Partition Coefficient: n-octanol/water</b>	See section 12
<b>Auto ignition Temperature</b>	No data available
<b>Decomposition Temperature</b>	No data available
<b>Kinematic Viscosity</b>	No data available

### 10: Stability and Reactivity

<b>Stability</b>	Stable under normal conditions
<b>Hazardous Reactions</b>	None Expected
<b>Incompatibility</b>	None Known
<b>Hazardous Decomposition Products</b>	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

<b>Acute Oral Toxicity</b>	LD50 > 5000 mg/kg
<b>Acute Dermal Toxicity</b>	LD50 > 5000 mg/kg
<b>Acute Inhalation Toxicity</b>	LD50 > 5 mg/L
<b>Skin Irritant/Corrosive</b>	None
<b>Eye Irritant/Corrosive</b>	None
<b>Sensitisation Effects</b>	None
<b>Mutagenic Effects</b>	None
<b>Carcinogenic Effects</b>	None

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### Reproductive Effects

Animal feeding studies on rats found pirimiphos-methyl decreased mating performance and pregnancy rate over 3 – 4 generations

### Specific Organ Toxicity

Pirimiphos-methyl is an organophosphorus compound and Interferes with cholinesterase, an enzyme essential for the correct functioning of the nervous system

## 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:

- Acute Oral LD50 (Bobwhite quail) 40 mg/kg
- LC50 (96 hr) (Rainbow trout) 0.64 mg/l
- LC50 (48 hr) (Daphnia) 0.21 µg/l
- Algae EC50 1.0 mg/l
- Bee LD50 (24 hr) > 0.22 µg/bee

### 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

### 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

Not required

### Certified Handler

Not 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 100 Kg
- An emergency response plan is required for more than 100 Kg
- Secondary containment is not required
- Separation/Segregation from incompatible substances (classes 1, 2, 3.2, 4 and 5) is not required

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

### Additional Requirements

## 16: Other Information

Glossary	
<b>ADE</b>	Acceptable Daily Exposure – A daily dose, received via any route, below which no adverse effects are expected over a lifetime of exposure
<b>ACVM</b>	Agricultural Compounds and Veterinary Medicines group of the Ministry of Primary Industries
<b>Cat.</b>	GHS category
<b>Ceiling</b>	A concentration that should not be exceeded at any time during any part of the working day
<b>Certified Handler</b>	A qualification issued by a Compliance Certifier to handle and use particularly toxic substances (6.1A and 6.1B)
<b>DT50</b>	Time (days) for 50% reduction in concentration
<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

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<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.

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.