

SAFETY DATA SHEET

ACTELIC DUST

1: Identification of the Substance and Supplier

Product Name	ACTELIC DUST
Recommended Use	Insecticide
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



Priority Identifiers:

Ecotoxic

HSNO Classes:

Secondary Identifiers:

6.8B	May cause reproductive/development damage from repeated ingestion
6.9B	May cause neurological symptoms from repeated ingestion at high doses
9.1A	Very toxic to aquatic organisms
9.3C	Harmful to terrestrial vertebrates
9.4C	Harmful to terrestrial invertebrates

3: Composition/ Information on Ingredients

Ingredient	CAS No	Content (% w/v)
Pirimiphos-methyl (active ingredient)	29232-93-7	2
Other ingredients, stabiliser, filler, 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 if irritation persists.
Ingestion	Do not induce vomiting. Keep strictly at rest as continued movement enhances toxic effects. Seek medical advice
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	Actellic Dust is an organophosphorus insecticide, which inhibits cholinesterase activity, and interferes in nerve pulse transmission. On set 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

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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.

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 ₂ .
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. If dust is generated, wear respiratory protection. 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, tightly closed container, in a secure area away from foodstuffs. Do not store for prolonged periods in direct sunlight.
Handling and Use	Keep out of reach of children. Avoid contact with eyes and skin. Avoid inhalation of dust. 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.
Approved Handler	Not required.
Tracking	Not required.
Record Keeping	Record of use must be kept if 3Kg or more is used in an area within 24 hours, and is likely to enter air or water and leave that place.
REI	Not applicable
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 100 Kg or more• Emergency information is required for 3 Kg or more• An emergency plan is required for more than 100 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). [Recommendation: Pirimiphos-methyl 3 mg/m ³ (8hr TWA)] Excipients – None established (Use lowest practicable level).
Engineering Controls	Limited given nature of use.
Personal Protection:	

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Eye	Safety glasses/goggles (or full face respirator incorporating visor) when handling 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.
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.

9: Physical and Chemical Properties

Appearance	Dust – Grey/Brown
Odour	Non specific
Melting 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	Not available
Vapour Pressure	2 mPa (20°C) (pirimiphos-methyl)
Vapour Density	Not volatile
Solubility in Water	Not soluble
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, alkalis, and oxidizing agents such as chlorine compounds, ammonium nitrate, etc.
Decomposition	Decomposition will not occur under normal conditions.
Dangerous Reactions	Products arising from combustion 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	Excessive sweating, salivation, headache, weakness, faintness, nausea, diarrhoea, small pupils, blurred vision, muscle twitching.
Eye	Mild irritation. May cause constriction of the pupil.
Skin	Mild irritation. Can be absorbed via the skin (see symptoms under 'swallowed' above).
Inhalation	Irritation.

Note: Symptoms may be delayed for up to 24 hours or more following exposure

Acute Toxicity (Active Ingredient)	<ul style="list-style-type: none"> Acute Oral LD50 (Rat) 1414 mg/kg Acute Dermal LD50 (Rat) > 2000 mg/kg Inhalation LC50 (4 hr) (Rat) > 5.04 mg/l
Sensitisation Effects	None.
Mutagenic Effects	None
Carcinogenic Effects	None
Reproductive Effects	Suspected
Teratogenic (Birth) Effects	Suspected
Systemic Effects	Interferes with cholinesterase, an enzyme essential for the correct functioning of the nervous system.

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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">Acute Oral LD50 (Bobwhite quail) 40 mg/kgLC50 (96 hr) (Rainbow trout) 0.64 mg/lLC50 (48 hr) (Daphnia) 0.21 µg/lAlgae EC50 1.0 mg/lToxic to bees.
Environmental Fate	Biodegradable. DT50 (soil) 3.5 – 30 days.
Partition Co-Efficient (Kow)	LogP = 4.2 (high)
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	
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	ORGANOPHOSPHORUS INSECTICIDE. MARINE POLLUTANT.
MTQ (Non-Commercial)	1000 Kg
Passenger Service Vehicle	No restriction

15: Regulatory

HSNO Approval No	HSR000197
ACVM Registration No	P3591

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

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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 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 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.