



SAFETY DATA SHEET

SILO[®] DUST

Date of Issue: 2 April 2025

1. SUBSTANCE/PREPARATION AND COMPANY IDENTIFICATION

Chemical name of active ingredient(s): Pirimiphos-Methyl 2%
Recommended use: Insecticide
Supplier: UPL New Zealand Limited
PO Box 51584, Pakuranga
Auckland
Phone 0800 100 325
www.upl-ltd.com/nz

Emergency telephone number: 0800 CHEM CALL (0800 243 622) 24 Hours

2. HAZARDS IDENTIFICATION

Hazard Classification:



GHS Classification:

WARNING

GHS Classification and Category	Hazard Code	Hazard Statement
Reproductive toxicity Cat. 2	H361	Suspected of damaging fertility or the unborn child
Specific target organ toxicity - repeated exposure Cat. 2	H373	May cause damage to organs through prolonged or repeated exposure.
Aquatic Acute Cat 1	H400	Very toxic to aquatic life.
Aquatic Chronic Cat 1	H410	Very toxic to aquatic life with long lasting effects.

Hazardous to terrestrial vertebrates.
Hazardous to terrestrial invertebrates.

Required identification Details:

PRECAUTIONARY STATEMENTS

PREVENTION

P102 - Keep out of the reach of children.
P103 - Read label carefully before use.
P201 - Obtain special instructions before use.
P202 - Do not handle until all safety precautions have been read and understood.
P280 - Wear protective gloves and clothing.
P260 - Do not breathe dust.
P273 - Avoid release to the environment.

RESPONSE

P308+P313 - If exposed or concerned: Get medical advice.

P314 - Get medical advice/attention if you feel unwell.

P391 - Collect spillage.

STORAGE

P405 - Store locked up.

DISPOSAL

P501 - Dispose of contents/container in accordance with local regulations.

Container disposal: Ensure the container is empty. Triple rinse empty container and add rinsate to the spray tank.

Recycle empty container through Agrecovery® (0800 247 326, www.agrecovery.co.nz). Otherwise crush and bury in a suitable landfill. DO NOT reuse this container for any other purpose.

Product disposal: Dispose of this product only by using according to the label, or at an approved landfill or other approved facility.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/preparation Information on hazardous ingredients

Common name	CAS No	%
Pirimiphos-Methyl	29232-93-7	2
Other ingredients, stabiliser, filler etc	Proprietary	Remainder

4. FIRST-AID MEASURES

Description of necessary first aid measures:

General information:

First-aid measures

Inhalation:

If inhaled, immediately move to fresh air and rest. Maintain half upright position if breathing is difficult. Seek medical advice if feeling unwell.

Ingestion:

If swallowed do not induce vomiting. Keep strictly at rest as continued movement enhances toxic effects. Seek medical advice immediately.

Skin contact:

Wash with soap and water. Wash contaminated clothing before reuse. Seek medical advice if irritation persists.

Eye contact:

If concentrate is splashed in the eyes, hold eyes open and flush with running water for at least 15 minutes. Remove contact lenses if easy to do so. Get medical attention if irritation persists.

Notes to a physician:

Symptoms may include excessive sweating, salivation, headache, weakness, faintness, nausea, diarrhoea, small pupils, blurred vision, muscle twitching.

5. FIRE-FIGHTING MEASURES

HAZCHEM Code:

2Z

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.

ERP Guide No:

47

Extinguishing media:

Water spray, foam, dry chemical, Carbon dioxide (CO₂).

Hazardous thermal (de)composition products: May include carbon monoxide. During a fire, toxic fumes may be emitted.
Specific methods: NA
Protection of fire-fighters: Wear full protective clothing and self-contained breathing apparatus. Do not breathe smoke or gases.

Other Information:

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Do not inhale dust. If dust is generated, wear respiratory protection. Wear protective clothing as described in Section 8.
Environmental precautions: Exclude non-essential people from the area.
Methods for cleaning up: Moisten to prevent dusting and carefully sweep up. Place in a waste container. Dispose of safely in suitable landfill.

7. HANDLING AND STORAGE

Handling: Keep out of the reach of children. When mixing or applying, avoid contact with skin and eyes. Avoid inhalation of dust. Wear protective clothing, gloves and goggles. Do not eat, drink or smoke while using. Wash hands and face before meals and after work. Wash protective clothing after work.
Safe Storage: Store in original container tightly closed and in a locked, dry, cool, well ventilated area, away from feed, seeds and foodstuffs. Do not store for prolonged periods in direct sunlight.
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.
Packaging materials: HDPE Plastic
Site requirements under HSNO regulations: A location test certificate, hazardous atmosphere zone and secondary containment 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. 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 CONTROLS/PERSONAL PROTECTION

Workplace Exposure Guidelines

Exposure Standards: Product – None established (use lowest practicable level)
Active ingredient – None established (use lowest practicable level).
(Recommendation: Pirimiphos-methyl 3 mg/m³ [8hr TWA])
Excipients - None established (use lowest practicable level)
Exposure Standards outside the workplace: No exposure standards have been set for this product or the active ingredients.

Engineering measures

Exposure control measures: Limited given nature of use.

Personal Protective Equipment

Detail specifications for equipment:

Respiratory system: Respirator (organic vapour and particulate matter) when handling or applying.

Skin and body:	When opening the container and using the product, wear cotton overalls buttoned to the neck and wrist and a washable hat, elbow-length PVC/nitrile gloves and goggles and boots.
Hands:	Elbow-length PVC/nitrile gloves.
Eyes:	Wear safety goggles (or full-face respirator with visor) when handling or applying.
General hygiene:	After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. After each day's use, wash contaminated clothing and safety equipment.
Biological Monitoring:	Regular users in direct control should undergo biological monitoring of cholinesterase activity. Consult with your GP or Occupational Health Advisor.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance (physical state, colour, etc.):	Grey-brown dust
Odour:	Non-specific odour.
Odour threshold:	NA
pH:	NA
Melting point/freezing point:	NA
Initial boiling point and boiling range:	NA
Flash point:	NA
Flammability (solid, gas):	NA
Upper/lower flammability or explosive limits:	NA
Vapour pressure:	2 mPa (20°C) (pirimiphos-methyl)
Vapour density:	NA
Relative density:	Not volatile.
Solubility (ies):	Not soluble.
Partition coefficient: n-octanol/water:	NA
Auto-ignition temperature:	NA
Decomposition temperature:	NA
Kinematic viscosity:	NA
Particle characteristics:	NA
Explosive Properties:	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.
Oxidation Properties:	Not an oxidizer.
Other Data:	

10. STABILITY AND REACTIVITY

Stability:	Stable under normal conditions.
Conditions to avoid:	NA
Materials to avoid:	Avoid mixing with strong acids, alkalis and oxidising agents such as chlorine compounds, ammonium nitrate etc.
Hazardous Decomposition Products:	Decomposition will not occur under normal conditions.
Hazardous polymerization:	NA
Hazardous Reactions:	Products arising from combustion or thermal decomposition may be toxic, corrosive or flammable.

11. TOXICOLOGICAL INFORMATION

Acute toxicity – Oral:	LD ₅₀ (rat) 1414 mg/kg
Acute toxicity - Dermal:	LD ₅₀ (rat) >2000 mg/kg
Acute toxicity – Inhalation:	LC ₅₀ (rat) >5.04 mg/L (4 hr)
Inhalation and Ingestion:	

Skin irritation:	Mild skin irritant. Can be absorbed via the skin.
Eye irritation:	Mild irritation. May cause constriction of the pupil.
Respiratory or skin sensitization:	None.
Germ cell mutagenicity:	None.
Carcinogenicity:	None.
Reproductive toxicity:	Suspected of damaging fertility or the unborn child
Aspiration hazard:	NA
STOT-single exposure:	NA
STOT-repeated exposure:	May cause damage to organs through prolonged or repeated exposure
Systemic Effects:	Interferes with cholinesterase, an enzyme essential for the correct functioning of the nervous system.

12. ECOLOGICAL INFORMATION

Ecology – general: Very toxic to aquatic life with long lasting effects.

Hazardous to the aquatic environment, short-term (acute): Very toxic to the aquatic environment.
Classification procedure - Hazardous to the aquatic environment, short-term (acute): LC₅₀ (96 hr) (Rainbow trout) 0.64 mg/L
 LC₅₀ (48 hr) (Daphnia) 0.21 µg/L
 Aqua C 1.0 mg/L

Hazardous to the aquatic environment, long-term (chronic): NA

Classification procedure - Hazardous to the aquatic environment, long-term (chronic): NA

Persistence and degradability: NA

Toxicity to terrestrial vertebrates: Birds; Acute Oral LG₅₀ (Bobwhite quail) 40 mg/kg
Toxicity to terrestrial invertebrates: Toxic to bees.
Bioaccumulative potential: Not established

Partition coefficient n-octanol/water (Log Kow): NA

Mobility in soil: Biodegradable. DT50 (soil) 3.5 – 30 days

Other adverse effects:

13. DISPOSAL CONSIDERATIONS

Methods of disposal: Dispose of product by using it in accordance with the label. Do not burn. Waste product should be disposed of to a suitable landfill.

Empty container precautions: Triple rinse container; add rinsate to the spray tank. Offer the container for recycling through the Agrecovery programme, or puncture top, sides and bottom and dispose of in landfill in accordance with local regulations.



14. TRANSPORT INFORMATION - International transport regulations

UN number: 3077

Hazchem 2Z

Classification Code: 9
Packing Group: III
Marine Pollutant: Yes
Proper shipping name: ENVIRONMENTAL HAZARDOUS SUBSTANCE, SOLID N.O.S.
(PIRIMIPHOS-METHYL 2%) ORGANOPHOSPHORUS INSECTICIDE.

MTQ (non-Commercial): 250 kg

15. REGULATORY INFORMATION

ACVM Registered Number: P009247
HSNO Approval Code: HSR000197

16. OTHER INFORMATION

Additional information: **Original Issue Date:** 1 November 2012
Revision Date: 2 April 2025
Replaces: ES633

Disclaimer EXCLUSION OF LIABILITY: PLEASE READ

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