

SAFETY DATA SHEET

SILO[®] DUST

Date of Issue: 28 September 2017

1. SUBSTANCE/PREPARATION AND COMPANY IDENTIFICATION

Chemical name of active ingredient(s): Pirimiphos-Methyl 2%
Recommended use: Insecticide
Supplier: Etec Crop Solutions Ltd
PO BOX 51584
Pakuranga, Auckland
Phone 0800 100 325
Emergency telephone number: 0800 CHEMCALL (0800 243 622) 24 Hours

2. HAZARDS IDENTIFICATION

Hazard Classification: **HSNO Class: 6.8B, 6.9B, 9.1A, 9.3C, 9.4C**
Required identification Details: TOXIC – Keep out of reach of children
ECOTOXIC – Very toxic to terrestrial vertebrates
May cause reproductive/development damage from repeated oral exposure.
May cause neurological symptoms (See 'Symptoms of Poisoning' below) from repeated oral exposure at high doses.
Very toxic to aquatic organisms.
Harmful to terrestrial vertebrates and terrestrial invertebrates.

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:

Effects and symptoms

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:

If skin or hair contact occurs, immediately wash affected area 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:

None known

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, Carbon dioxide (CO₂).

Hazardous thermal

May include carbon monoxide

(de)composition products:

During a fire, toxic fumes may be emitted

Protection of fire-fighters:

Wear full protective clothing and self contained breathing apparatus. Do not breathe smoke or gases.

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.

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.

Packaging materials:

HDPE Plastic

Approved Handler:

Not required

Tracking:

Not required

Recording 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.

Site requirements under HSNO

A location test certificate is not required.

Regulations:

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.

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.

Additional Requirements:

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Workplace Exposure Guidelines

Workplace 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

Physical State:

Dust

Colour:

Grey/Brown

Odour:

Non specific

pH:

NA

Vapour Pressure:	2 mPa (20°C) (pirimiphos-methyl)
Boiling Point:	
Freezing/melting point:	Not available
Solubility:	Not soluble
Specific gravity or density:	Not volatile
Information for flammable material including:	
Octanol/water partition coefficient:	
Explosion 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

10. STABILITY AND REACTIVITY

Stability:	Stable under normal conditions.
Conditions to avoid:	
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:	
Specific Data:	
Hazardous reactions :	Products arising from combustion or thermal decomposition may be toxic, corrosive or flammable.

11. TOXICOLOGICAL INFORMATION

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

Acute toxicity – Oral (Active ingredient) : LD₅₀

1414 mg/kg (rat)

Acute toxicity - Dermal : LD₅₀

>2000 mg/kg (rat)

Acute toxicity – Inhalation: LC₅₀

>5.04 mg/L (4 hr) (rat)

Inhalation:

Excessive sweating, salivation, headache, weakness, faintness, nausea, diarrhoea, small pupils, blurred vision, muscle twitching.

Ingestion:

Skin irritation :

Mild skin irritant. Can be absorbed via the skin (see symptoms under 'swallowed' above).

Eye irritation:

Mild irritation. May cause constriction of the pupil.

Sensitization :

None

Mutagenic Effects:

None

Carcinogenic Effects:

None

Chronic toxicity:

Tetragenic Effects:

Suspected

Reproductive Effects:

Suspected

Systemic Effects:

Interferes with cholinesterase, an enzyme essential for the correct functioning of the nervous system.

Other information :

12. ECOLOGICAL INFORMATION

Ecotoxicity	Acute Oral LG50 (Bobwhite quail)40 mg/kg LC50 (96 hr) (Rainbow trout) 0.64 mg/L LC50 (48 hr) (Daphnia)0.21 µg/L Aqua C1.0 mg/L
Bees	Toxic to bees
Soil	Biodegradable. DT50 (soil) 3.5 – 30 days
Bioaccumulative potential :	Not established

Birds

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.
Methods of disposal :	CONTAINER DISPOSAL: Triple rinse container and add residue to spray tank. Burn if permitted and circumstances, especially wind direction allow, otherwise bury in landfill.

14. TRANSPORT INFORMATION -International transport regulations

UN number:	3077
Class or Division:	
Classification Code:	9
Packing Group:	III
Marine Pollutant:	N/A
Proper shipping name :	ENVIRONMENTAL HAZARDOUS SUBSTANCE, SOLID,N.O.S. (PIRIMIPHOS-METHYL 2%) ORGANOPHOSPHORUS INSECTICIDE. MARINE POLLUTANT. 250 kg
MTQ (non-Commercial)	
INTERNATIONAL AIR TRANSPORT ASSOCIATION (IATA):	

15. REGULATORY INFORMATION

ACVM Registered Number:	P009247
HSNO Approval Code:	HSR000197

16. OTHER INFORMATION

Additional information:

Original Issue Date: 1 November 2012
Revision Date: 28 September 2017
Replaces: ES450

Disclaimer EXCLUSION OF LIABILITY: PLEASE READ

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