



SAFETY DATA SHEET APHIDEX® WG INSECTICIDE

Section 1: Identification of the Substance and Supplier

Product name : APHIDEX® WG INSECTICIDE
Chemical name of active Ingredient(s): 2-(dimethylamine)5,6-pyrimidinyl dimethylcarbamate
Common name: Pirimicarb
Supplier: ADAMA New Zealand Limited
Level1/19 Elms Street, Wakatu Estate, Stoke, Nelson, New Zealand
P.O.Box 1799, Nelson New Zealand.
Telephone +64 3 543 8275 Fax: +64 3 543 8274
Emergency Telephone: 0800 POISON (0800 764 766)

Section 2: Hazards identification

Hazard Classifications: 6.1C, 6.3B, 6.4A, 6.5B, 6.9B, 9.1A, 9.3A, 9.4C

Most important hazards: **TOXICITY**
DANGER–
May be fatal if swallowed, inhaled or absorbed through the skin.
May cause mild skin irritation. May cause eye irritation.
May cause sensitisation from prolonged skin contact.
May cause neurotoxicity (nervous system) damage from repeated oral exposure at high doses.
Avoid eye and skin contact and inhalation of the spray mist.

ECOTOXICITY
Very toxic to aquatic organisms. Avoid contamination of any water supply with product or empty container. **Very toxic to terrestrial vertebrates.**
Harmful to terrestrial invertebrates.
Spray must NOT contact plants in flower if they are likely to be visited by bees except in the evening when the bees have stopped working.

Section 3. Composition/information on Ingredients

Substance/preparation	Preparation			
Information on hazardous ingredients *				
Common name	CAS No.	Conc. %	TWA (mg/m ³)	STEL (mg/m ³)
Pirimicarb	23103-98-2	500g/kg	not set	not set
Calcium carbonate	471-34-1	320g/kg	10	not set
Other non hazardous ingred.	Secret	to 100%	not set	not set

This is commercial product whose exact ratio of components may vary slightly. Minor quantities of other non hazardous ingredients are also possible.

- **Occupational Exposure Limit(s), if available, are listed in section 8**

Section 4: First-Aid Measures

Necessary First-aid measures:

For advice contact the National Poisons centre on 0800 POISON (0800 764 766) or a doctor immediately. Begin artificial respiration if the victim is not breathing. Use mouth to nose rather than mouth to mouth. Obtain medical attention.

Swallowed: If swallowed **DO NOT** induce vomiting.
Eyes: If concentrate or spray solution enters the eyes wash it out immediately with water.
Remove contact lenses.



SAFETY DATA SHEET APHIDEX® WG INSECTICIDE

Skin contact: Remove contaminated clothing. Wash away remainder with water and Soap.
DO NOT scrub the skin.

Inhaled: If inhaled move the victim to fresh air immediately.

Poisoning Symptoms: No case of human poisoning due to this product is on record. The poisoning symptoms observed for laboratory mammals were non specific.

Notes for Medical Personnel: No specific antidote is available. If poisoning is suspected apply symptomatic therapy.

Protection of first-aiders: Use appropriate protection (see section 8).

Section 5: Fire-Fighting Measures

Type of Hazard: Not Flammable

Fire Hazard Properties: During a fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion.

Extinguishing Media: Dry chemical extinguisher, foam, carbon dioxide or fine water spray. DO NOT use direct jet of water.

Hazchem Code: 2X

Protective clothing: When fighting a major fire wear an air-supplied respirator. Wear protective equipment.

Section 6: Accidental Release Measures

Personal precautions: Ensure suitable personal protection during removal of spillages. This means wearing eye protection, chemically resistant gloves, boots and overalls.

Environmental precautions: Washings must be prevented from entering surface water drains or waterways.

Methods for cleaning up: Exclude all bystanders from the vicinity of the spill and prevent material from entering waterways. Wear goggles, half face-piece respirator with combined dust and vapour cartridge, full length clothing (overalls) and PVC gloves. Sweep up spilt material and place in waste containers. Absorb liquid spills with an inert (such as vermiculite, earth, sand or synthetic absorbent substance) material and place in waste containers. Wash area with water and alkaline detergent then absorb any remaining liquid with further inert material. Dispose of the waste safely in an approved landfill.

Section 7: Handling and Storage

Handling: Keep out of reach of children. Do not eat, drink or smoke while using.
Avoid contact with skin and eyes and inhalation of dust from concentrate or spray mist.
Wash face and hands before eating, drinking or smoking.

Regulatory Requirements: This product must be tracked.

Approved Handlers: this product must be under the control of an Approved Handler

Storage: Store in the original, unopened container in a cool, dry place, out of direct sunlight and away from sources of ignition, stockfeed, seeds or foodstuffs and under lock and key.
As a Class 9 Substance with Ecotoxicity Classifications storage of Aphidex WG Insecticide must be carried out in such a manner as to prevent contamination of waterways. It is recommended that The New Zealand Standard for the Management of Agrichemicals (NZS8409) is followed as a means of meeting the secondary containment provisions of the HSNO Emergency Management Regulations. Signage and secondary containment will be required at sites holding 100kg or more of Aphidex WG Insecticide.

Section 8: Exposure Controls/Personal Protection

Engineering measures: No special requirements. Product is used outdoors. Containment and or segregation are the most reliable technical protection measure if exposure cannot be eliminated. The extent of these protection measures depends on the actual risks in use. If airborne mists or vapours are generated, use local exhaust ventilation controls. Assess exposure and use any measures to keep airborne levels below any relevant exposure limit.



SAFETY DATA SHEET APHIDEX® WG INSECTICIDE

Follow precaution statements on the label and the use and safety directions in Code of Practice for the Managements of agricultural NZS8409.

- General Hygiene:** Change work clothes daily. May irritate the eyes and skin. Avoid contact with eyes and skin. Do not intake dust or spray mist. If product gets on skin immediately wash area with soap and water. After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water.
- Respiratory Protection:** In case of heavy exposure wear half face-piece respirator with combined dust and vapour cartridge.
- Skin and body Protection:** Wear heavy duty cotton overalls and chemical resistant boots.
- Hand Protection:** Chemical resistant gloves.
- Eye Protection:** Safety goggles or Chemical goggles.

Section 9: Physical and Chemical Properties

- Physical state:** Granulated solid
Colour: Off white
Odour: Odourless
Volatiles: No specific data. Expected to be low at 100 °C
Vapour pressure: Pirimicarb 0.97mPa @ 25 °C
Vapour density: No data
Specific gravity: No data. Bulk density 0.61
Melting point: Pirimicarb melts at approx 92 °C
Solubility in water: Soluble
Coeff Oil/water distribution: 1.7 (unionized) (log P octanol/water)

Section 10: Stability and Reactivity

- Physico-chemical Stability:** Stable under normal conditions
Conditions to avoid: This product should be kept in a cool place, preferably below 30 °C. Containers should be kept dry. Keep isolated from combustible materials.
Materials to avoid: Oxidising agents.
Hazardous Polymerization: Will not occur
Hazardous decomposition Products: Can decompose at high temperatures forming toxic gases.

Section 11. Toxicological Information

- Target Organs:** There is no data to hand indicating any particular target organs.
Acute toxicity - Oral: LD₅₀ (rat) = 147mg/kg
LD₅₀ (mouse) = 107mg/kg
LD₅₀ (poultry) = 25-50mg/kg
LD₅₀ (dog) = 100-200mg/kg
Acute toxicity - Dermal: LD₅₀ (rat) = > 500 mg/kg Non irritant
Acute toxicity – Inhalation: LC₅₀ (rat)0.3mg/l/6h
Eye irritation: Pirimicarb caused no irritation when introduced as a 5% solution of technical material into the eyes of rabbits.
Sensitization: Not a Sensitizer (Guinea-pig)
Chronic/Long term Effects: Pirimicarb technical has been extensively tested on laboratory mammals and in test-tube systems. The NOEL was 40mg/kg. In a 90 day study, reduced growth and food consumption was observed at 250 and 1000 ppm, but no neurological effects were noted. Not teratogenic in rats or rabbits. Not carcinogenic in chronic rat and mouse studies.



SAFETY DATA SHEET APHIDEX® WG INSECTICIDE

Section 12: Ecological Information

Ecological effects Information:	The data below is for Pirimicarb
Toxicity to Birds:	LD ₅₀ = 25-50mg/kg (poultry) LD ₅₀ = 28.5mg/kg (mallard ducks) LD ₅₀ = 20.9mg/kg (bobwhite quail)
Acute toxicity to fish:	LC ₅₀ (96h) = 79mg/l (Rainbow trout) LC ₅₀ (96h) > 100mg/l (fathead minnow)
Growth inhibition, Algae:	EbC ₅₀ (96h) = 140mg/l (green algae)
Toxicity to aquatic invertebrates:	LC ₅₀ (48h) = 0.017mg/l (Daphnia magna (water flea))
Toxicity to soil dwelling organisms:	LC ₅₀ (14 days) = >60mg/kg (earthworms)
Toxicity to Bees:	LD ₅₀ (24h) oral = 4µ/bee (technical) LD ₅₀ (24h) oral = 53µ/bee (technical)

Environmental fate:

The information presented here is for the active ingredient pirimicarb. Solid with low volatility. This substance has low mobility in soil. K_{ow} logP = 4.2 (20°C), 1.7 (unionized). There is evidence of rapid degradation in soil. DT₅₀ 7-234 days, according to soil type 9 range on 1.7-51.9%, pH 5.5-8.1). Hydrolytically stable at pH 4-9 (25°C) Aqueous solution sunstable to UV light DT₅₀ <1d (pH 5,7,9).

Section 13: Disposal Considerations

Methods of disposal: Triple rinse empty container and add rinsate to spray tank. Empty containers and product should NOT be burnt. Crush or puncture containers and bury in a suitable landfill, away from watercourses or if appropriate, recycle. Do not contaminate ponds, waterways and ditches with product or used container.

Section 14: Transport Information

UN Number	2757
Land-Road/Railway	
Proper shipping name	CARBAMATE PESTICIDE, SOLID, TOXIC, N.O.S. (PIRIMICARB 50%)
Class	6.1
Packaging Group	III
Hazchem Code	2X
Marine Pollutant	Yes
IER Guide page	34

National transport regulations: Do not carry this product on a passenger service vehicle.

Segregation: Check the land transport Rule Dangerous Goods 1999, Rule 45001 for additional information. Sea transport may require additional segregation. Refer: NZS5433; Sea Segregation, or the International Maritime Dangerous Goods Code for details.

Section 15: Regulatory Information

New Zealand Regulatory Information:

NZFSA Approval: Registered pursuant to the ACVM Act 1997. No P7709
See www.nzfsa.govt.nz/acvm for registration conditions.



SAFETY DATA SHEET APHIDEX® WG INSECTICIDE

Approved pursuant to the HSNO Act 1996, Approval No. HSR00703
See www.ermanz.govt.nz for registration conditions.

HSNO Classifications: 6.1C, 6.3B, 6.4A, 6.5B, 6.9B, 9.1A, 9.3A, 9.4C



ACUTE TOXIC



ECOTOXIC

APPROVED HANDLER: THIS PRODUCT MUST BE UNDER THE CONTROL OF AN APPROVED HANDLER DURING USE

TRACKING: THIS PRODUCT MUST BE TRACKED

Section 16: Other Information

Note: This product is a registered agricultural chemical and must be therefore be used in accordance with the container label directions. A comprehensive package of toxicological and environmental data for the active ingredients of this product has been submitted to the Government health and environment authorities and has been evaluated by expert toxicologists and environmental scientists.

The information contained in the Safety Data sheet is correct to the best of our knowledge at the date of issue. It is intended as a guide for the safe use, handling, disposal, storage and transportation and is not intended as a warranty or as a specification. The information relates only to the product specified and may not be suitable for combinations with other materials or in processes other than those specifically described herein.

® registered Trade Mark of an Adama Group Company

HISTORY

Date of printing: 15/07/2014
Supersedes SDS issued 22/09/2008