



## SAFETY DATA SHEET

### Section 1. Identification of the material and the supplier

Product: **APHIDEX® WG INSECTICIDE**  
Chemical name of active: 2-(dimethylamino)5,6-pyrimidinyl dimethylcarbamate  
Common Name: Pirimicarb  
Product Use: Insecticide  
Restriction of Use: Refer to Section 15

New Zealand Supplier: ADAMA New Zealand Ltd  
Address: Level 1/93 Bolt Road  
Tahunanui, 7011, Nelson  
Telephone: +64 3 543 8275  
Fax Number: +64 3 543 8274

**Emergency Telephone: 0800 764 766 (National Poison Centre)**

Date of SDS Preparation: 10 July 2018

### Section 2. Hazards Identification

**This substance is hazardous according to the Hazardous Substances (Classification) Notice 2017**

**EPA Approval No:** HSR000703

#### Pictograms



Toxic

Irritant

Chronic

Ecotoxic

Signal Word: **DANGER**

HSNO Classification	Hazard Code	Hazard Statement	GHS Category
6.1C (oral)	H301	Toxic if swallowed.	Acute Tox. 3
6.1D (inh)	H332	Harmful if inhaled.	Acute Tox. 4
6.3B	H316	Causes mild skin irritation.	Skin Irrit. 3
6.4A	H319	Causes serious eye irritation.	Eye Irrit. 2A
6.5B	H317	May cause an allergic skin reaction.	Skin Sens. 1
6.9B	H373	May cause damage to organs through prolonged or repeated exposure.	STOT RE 2
9.1A	H400	Very toxic to aquatic life.	Aquatic Acute 1
9.3A	H431	Very toxic to terrestrial vertebrates.	
9.4B	H442	Toxic to terrestrial invertebrates.	

<b>Prevention Code</b>	<b>Prevention Statement</b>
P102	Keep out of reach of children.
P103	Read label before use.
P260	Do not breathe dust.
P264	Wash hands thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective clothing as detailed in Section 8.

<b>Response Code</b>	<b>Response Statement</b>
P101	If medical advice is needed, have product container or label at hand.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P330	Rinse mouth.
P363	Wash contaminated clothing before reuse.
P391	Collect spillage.
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P304 + P340	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
P305 + P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332 + P313	If skin irritation occurs: Get medical advice/ attention.
P337 + P313	If eye irritation persists: Get medical advice/attention.

<b>Storage Code</b>	<b>Storage Statement</b>
P405	Store locked up.  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 Albatross 200SC 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 (NZS 8409) is followed as a means of meeting the secondary containment provisions of the HSNO Emergency Management Regulations. See Safety Data Sheet for further information.

<b>Disposal Code</b>	<b>Disposal Statement</b>
P501	Refer to Section 13

### **Section 3. Composition / Information on Ingredients**

<b>Ingredients</b>	<b>Conc%</b>	<b>CAS NUMBER.</b>
Pirimicarb	500g/kg	23103-98-2
Calcium carbonate	320g/kg	471-34-1
Other ingredients not contributing to the overall classification of the substance or non hazardous	To balance	NA

### **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.

## Routes of Exposure:

If in Eyes	Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
If on Skin	Take off contaminated clothing and wash before re-use. Wash off immediately with soap and plenty of water. DO NOT scrub the skin. If skin irritation or rash occurs: Get medical advice/attention.
If Swallowed	Wash out mouth with plenty of water. Do not induce vomiting. Get medical attention. Never give anything by mouth to an unconscious person. Call a POISON CENTER or doctor/physician if you feel unwell.
If Inhaled	Remove person to fresh air. Remove contaminated clothing and loosen remaining clothing. Allow person to assume most comfortable position and keep warm. Keep at rest until fully recovered. Get medical advice if breathing becomes difficult.

## Most important symptoms and effects, both acute and delayed

### Symptoms:

<b>Ingestion:</b>	Toxic if swallowed.
<b>Skin:</b>	Causes mild skin irritation. May cause an allergic skin reaction
<b>Inhalation:</b>	Harmful if inhaled.
<b>Eyes:</b>	Causes serious eye irritation.
<b>Chronic:</b>	May cause damage to organs through prolonged or repeated exposure.

**Notes to physician:** There is no specific antidote. If poisoning is suspected apply symptomatic therapy.

## Section 5. Fire Fighting Measures

<b>Hazard Type</b>	Not Flammable.
<b>Hazardous thermal (de)composition products</b>	During a fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion.
<b>Suitable Extinguishing media</b>	Dry chemical extinguisher, foam, carbon dioxide or fine water spray. DO NOT use direct jet of water.
<b>Precautions for firefighters and special protective clothing</b>	When fighting a major fire wear an air-supplied respirator. Wear protective equipment.
<b>HAZCHEM CODE</b>	<b>2X</b>

## Section 6. Accidental Release Measures

Wear full protective clothing as detailed in Section 8. Evacuate area from unnecessary personnel.

### Environmental precautions

Do not allow into any sewer, on the ground or into any body of water. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained.

### Methods and material for containment and cleaning up

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 container in a suitable landfill or take to an Agrecovery collection site.

## Section 7. Handling and Storage

### Precautions for Handling:

- Read label before use.
- Do not breathe dust.
- Wash hands thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- Use only outdoors or in a well-ventilated area.
- Contaminated work clothing should not be allowed out of the workplace.
- Avoid release to the environment.
- Wear protective clothing as detailed in Section 8.

### Precautions for Storage:

- Store away from incompatible materials listed in Section 10.
- Keep away from children.
- 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

### WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

Substance	TWA		STEL	
	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
Calcium carbonate (Limestone, Marble) [471-34-1]		10		

Workplace Exposure Standard – Time Weighted Average (WES-TWA). The time-weighted average exposure standard designed to protect the worker from the effects of long-term exposure. Workplace Exposure Standard – Short-Term Exposure Limit (WESSTEL). The 15-minute average exposure standard. Applies to any 15- Minute period in the working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue change, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to the WES-TWA; both the short-term and time-weighted average exposures apply. Workplace Exposure Standards and Biological Exposure Indices NOV 2017 9TH EDITION.

### Engineering Controls

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.

### Personal Protection Equipment



<b>Eyes</b>	Safety goggles or face shield. Avoid wearing contact lenses.
<b>Hands and Skin</b>	Wear chemical resistant gloves, wear heavy duty cotton overalls and chemical resistant boots.
<b>Respiratory</b>	In case of heavy exposure wear half face-piece respirator with combined dust and vapour cartridge.

<b>General</b>	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.
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## Section 9 Physical and Chemical Properties

<b>Appearance</b>	Off-white to light brown - granulated solid
<b>Odour</b>	Odourless
<b>Odour Threshold</b>	Not applicable
<b>pH</b>	Not applicable
<b>Boiling Point</b>	Not applicable
<b>Melting Point</b>	Pirimicarb melts at approx 92°C
<b>Flash Point</b>	Not applicable
<b>Flammability</b>	Not applicable
<b>Upper and Lower Exposure Limits</b>	Not applicable
<b>Vapour Pressure</b>	Pirimicarb 0.97mPa @ 25°C
<b>Density</b>	Not applicable
<b>Bulk Density</b>	0.61
<b>Relative Density</b>	Not applicable
<b>Solubilities</b>	Soluble
<b>Auto-ignition Temperature</b>	Not applicable
<b>Coeff Oil/water distribution</b>	1.7 (unionized) (log P octanol/water)
<b>Volatiles</b>	Expected to be low at 100°C

## Section 10. Stability and Reactivity

<b>Stability of Substance</b>	This product is stable under normal conditions.
<b>Conditions to Avoid</b>	This product should be kept in a cool place, preferably below 30°C. Containers should be kept dry. Keep isolated from combustible materials.
<b>Incompatible Materials</b>	Oxidizing agents.
<b>Hazardous Decomposition Products</b>	Can decompose at high temperatures forming toxic gases.

## Section 11 Toxicological Information

### Acute Effects:

<b>Swallowed</b>	Toxic if swallowed.
<b>Dermal</b>	Not triggered
<b>Inhalation</b>	Harmful if inhaled.
<b>Eye</b>	Causes severe eye irritation.
<b>Skin</b>	Causes mild skin irritation. May cause an allergic skin reaction.

### Chronic Effects:

<b>Carcinogenicity</b>	Not applicable.
<b>Reproductive Toxicity</b>	Not applicable.
<b>Germ Cell Mutagenicity</b>	Not applicable.
<b>Aspiration</b>	Not applicable.
<b>STOT/SE</b>	Not applicable.
<b>STOT/RE</b>	May cause damage to organs through prolonged or repeated

**Primicarb Information:**

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.	

**Section 12. Ecotoxicological Information**

HSNO Classes:	9.1A =	Very toxic to aquatic life.
	9.3A =	Very toxic to terrestrial vertebrates.
	9.4B =	Toxic to terrestrial invertebrates.

<b>Persistence and degradability</b>	No data available
<b>Bioaccumulation</b>	No data available
<b>Mobility in Soil</b>	No data available
<b>Other adverse effects</b>	No data available

**The data below is for Pirimicarb**

Toxicity to Birds: LD50 = 25-50mg/kg (poultry)  
 LD50 = 28.5mg/kg (mallard ducks)  
 LD50 = 20.9mg/kg (bobwhite quail)

Acute toxicity to fish: LC50 (96h) = 79mg/l (Rainbow trout)  
 LC50 (96h) > 100mg/l (fathead minnow)

Growth inhibition, Algae: EbC50 (96h) = 140mg/l (green algae)

Toxicity to aquatic invertebrates: LC50 (48h) = 0.017mg/l (Daphnia magna (water flea))

Toxicity to soil dwelling organisms: LC50 (14 days) = >60mg/kg (earthworms)

Toxicity to Bees: LD50 (24h) oral = 4µ/bee (technical)  
 LD50 (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.

Kow 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**

**Disposal Method:** Dispose of this product only by using according to the label or at an approved landfill. Container Disposal: Triple rinse container and add rinsate to spray tank.

Empty containers and product should not be burnt. Dispose of container in a suitable landfill or take to an Agrecovery collection site. Do not use container for any other purpose

**Precautions:** Do not allow product to enter waterways.

**Disposal methods to avoid:** Do not burn product or container.

## Section 14 Transport Information

**This product is classified as a Dangerous Good for transport in NZ; NZS 5433:2012**



### **Road and Rail Transport**

UN No: 2757  
Class-primary 6.1  
Packing Group III  
Proper Shipping Name: CARBAMATE PESTICIDE, SOLID, TOXIC, N.O.S.  
(PIRIMICARB 50%)

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

### **Air Transport**

UN No: 2757  
Class-primary 6.1  
Packing Group III  
Proper Shipping Name: CARBAMATE PESTICIDE, SOLID, TOXIC, N.O.S.  
(PIRIMICARB 50%)

### **Marine Transport**

UN No: 2757  
Class-primary 6.1  
Packing Group III  
Proper Shipping Name: CARBAMATE PESTICIDE, SOLID, TOXIC, N.O.S.  
(PIRIMICARB 50%)  
Marine Pollutant: Yes

### **Special Provisions:**

If the product's individual container is below 5kg, it can be transported as a non-DG as long as the product packaging is still labelled as per DG requirements and the driver is given safety information in accordance with Chapter 3.4 of the UNRTDG.

### **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

EPA Approval Code: HSR000703

HSNO Classification: 6.1C(oral), 6.1D(inh), 6.3B, 6.4A, 6.5B, 6.9B, 9.1A, 9.3A, 9.3B

<b>HSW (HS) Regulations 2017 and EPA Notices</b>	<b>Trigger Quantity</b>
Certified Handlers	Not Required
Location Certificate	1000kg
Tracking Trigger Quantities	Not required
Signage Trigger Quantities	100L(9.1A)

Product Name: Aphidex WG Insecticide  
Date of SDS: 10 July 2018

Issued by: Technical Compliance Consultants (NZ) Ltd  
Tel: 64 9 475 5240 www.techcomp.co.nz

Emergency Response Plan	100L(9.1A)
Secondary Containment	100L(9.1A)
<b>HSNO Additional Controls (Restrictions of use)</b>	
77A	This substance must not be applied onto or into water. The application of the substance must be limited to ground based application methods only.  For additional controls please refer to <a href="http://www.epa.govt.co.nz">www.epa.govt.co.nz</a> – HSR000703
<b>Hazardous Property Controls Notice 2017</b>	
HPC Notice Part 4 Clause 47	Equipment for class 9 substances must be appropriate
HPC Notice Part 4 Clause 48	Records of application of class 9 pesticides and plant growth regulators
HPC Notice Part 2	Certain substances restricted to workplace only
HPC Notice Part 4 Subpart A	Site and storage controls for class 9 substances
HPC Notice Part 4 Subpart C	Qualifications required for application of class 9 pesticides
<b>ACVM Act and Regulations</b>	
Registered pursuant to the ACVM Act 1997, See <a href="http://www.nzfsa.govt.nz/acvm">www.nzfsa.govt.nz/acvm</a> for registration conditions	No. P7709
<b>For all further controls</b>	Refer to EPA website ( <a href="http://www.epa.govt.nz">www.epa.govt.nz</a> ) for controls document - HSR000703

## Section 16 Other Information

### Glossary

EC50	Median effective concentration.
EEL	Environmental Exposure Limit.
EPA	Environmental Protection Authority
HSNO	Hazardous Substances and New Organisms.
LC50	Lethal concentration that will kill 50% of the test organisms inhaling or ingesting it.
LD50	Lethal dose to kill 50% of test animals/organisms.
LEL	Lower explosive level.
OSHA	American Occupational Safety and Health Administration.
TEL	Tolerable Exposure Limit.
TLV	Threshold Limit Value-an exposure limit set by responsible authority.
UEL	Upper Explosive Level
WES	Workplace Exposure Limit

### References:

1. EPA Hazardous Substances (Safety Data Sheets) Notice 2017
2. Workplace Exposure Standards and Biological Exposure Indices Nov 2017 edition.
3. Assigning a hazardous substance to a HSNO Approval (Aug 2013).
4. Transport of Dangerous goods on land NZS 5433:2012
5. HSW (Hazardous Substances) Regulations 2017

### Disclaimer

This document has been prepared by TCC (NZ) Ltd and serves as the suppliers Safety Data Sheet ('SDS'). It is based on information concerning the product which has been provided to TCC (NZ) Ltd or obtained from third party sources and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer. While TCC (NZ) have taken all due care to include accurate and up-to-date information in this SDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, TCC (NZ) Ltd accept no liability for any loss, injury



or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this SDS

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Please contact the Adama, if further information is required.

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