

MATERIAL SAFETY DATA SHEET

STATEMENT OF HAZARDOUS NATURE:

Hazardous according to the criteria of NOHSC Australia

COMPANY DETAILS:

Syngenta Crop Protection Pty Limited
ABN 33 002 933 717
140-150 Bungaree Rd.,
PENDLE HILL, NSW, 2145

Telephone No.: (02) 9688 0444
24 Hours Emergency No.: 1 800 033 111

IDENTIFICATION

PRODUCT NAME: Pirimor WG Aphicide

Formulation type:	Wettable Granule	UN number:	2757
Active ingredient:	Pirimicarb	Dangerous goods class:	6.1
Product code:		Subsidiary risk:	
Chemical type:	Carbamate	Hazchem code:	2X
Poisons schedule:	6	Packing group:	III
		EPG/IERG:	6B3

USE: For control of certain aphids on crops and pastures as per directions for use.

PHYSICAL DESCRIPTION/PROPERTIES

Appearance:	green granular solid	Flash Point:	not available
Odour:	not available	Flammability:	not available
Melting point:	91.6°C (pirimicarb)	Combustibility:	not available
Vapour pressure:	4×10^{-1} (pirimicarb)	Solubility in water:	soluble in water
Bulk Density:	0.61 g/cm ³		

INGREDIENTS

	CAS No.	Content (%w/v)
Pirimicarb (technical grade)	23103-98-2	50
Talc	14807-96-6	10 – 29
Other ingredients deemed not to be hazardous	-	10 – 29

HEALTH HAZARD INFORMATION

HEALTH EFFECTS

ACUTE TOXICITY

This product is TOXIC according to NOHSC Australia.

Swallowed:	TOXIC Tests on rats indicate this product is TOXIC following a single dose of the formulated product. (LD ₅₀ = 100 - 200 mg/kg)
Dermal absorption:	NOT HARMFUL Tests on rabbits indicate this product is NOT HARMFUL following skin contact with the formulated product. (LD ₅₀ = > 2000 mg/kg)
Inhaled:	TOXIC Tests on rats indicate this product is TOXIC due to inhalation of the active ingredient. (LC ₅₀ = 0.86 mg/L/4 hours)

Irritation:

Eye: MODERATE IRRITANT
 Skin: SLIGHT IRRITANT

Sensitisation:

Skin: NOT A SKIN SENSITISER

Poisoning symptoms:

Symptoms that may arise if the product is mishandled are nausea, vomiting, abdominal pain, sweating, salivation and constriction of pupils.

CHRONIC TOXICITY (Active Ingredient)

Pirimicarb technical has been extensively tested in mammals and in test-tube systems. No evidence of mutagenic, carcinogenic, neurotoxic, teratogenic or reproductive effects was obtained. Short term tests have shown that it is unlikely to be a carcinogenic hazard to man. Studies in animals have shown that repeated doses produce no significant effects apart from cholinesterase inhibition.

FIRST AID

In case of poisoning by any exposure route contact a doctor or Poisons Information Centre. Phone 13 11 26. An anti-cholinesterase compound.

- Swallowed: Rinse mouth with water. If more than 15 minutes from a hospital induce vomiting preferably using Ipecac Syrup APF. Give one Atropine tablet every 5 minutes until dryness of the mouth occurs. Seek immediate medical assistance.
- Eye: Immediately irrigate with copious quantities of water for at least 15 minutes. Eyelids to be held open. Urgently seek medical assistance. Transport to hospital or medical centre.
- Skin: Wash contaminated skin with plenty of water. Remove contaminated clothing and wash before re-use. If poisoned through skin absorption, give atropine tablets as above. Seek medical advice.
- Inhaled: If poisoned through inhalation remove victim from exposure – avoid becoming a casualty. Remove contaminated clothing and loosed remaining clothing. If victim is conscious give atropine tablets as above. If breathing is laboured and patient cyanotic (blue), ensure airways are clear and have qualified person give oxygen through face mask. If breathing has stopped apply artificial respiration at once. In event of cardiac arrest, apply external cardiac massage. Seek immediate medical advice.

ADVICE TO DOCTOR

Anti-cholinesterase effects. Effects may be delayed.

Treatment:

Give 2 mg of atropine sulphate intramuscularly or, in severe cases, intravenously, repeated at 10 – 15 min intervals until dryness of the mouth occurs. When this response is achieved it is advisable to maintain a mild degree of atropinisation for 24 hours. If stopped too early pulmonary oedema may develop. Atropine should not be given to a cyanosed patient.

PRECAUTIONS FOR USE

ALWAYS READ AND FOLLOW THE LABEL INSTRUCTIONS AND WARNINGS

EXPOSURE STANDARDS

	TWA	
	ppm	mg/m ³
Pirimicarb	-	1
Talc	-	2.5

TWA = The time weighted average airborne concentrations over an eight-hour working day, for a five-day working week over an entire working life.

Exposure Potential - Swallowing is unlikely under normal conditions of usage. Inhalation is a possible route of exposure. This product is diluted with water prior to use as a spray. This diluted form is less toxic by all routes of exposure.

Re-entry Period - Do not enter treated areas without protective clothing for 12 hours after application.

ENGINEERING CONTROLS

Ensure ventilation is adequate and that air concentrations of components are controlled below quoted Exposure Standards. Avoid generating and inhaling dusts. Keep containers closed when not in use.

PERSONAL PROTECTION

MANUFACTURING, PACKAGING AND TRANSPORT: avoid skin and eye contact and inhalation of vapour/dust/mist. Wear overalls, chemical goggles and impervious gloves. Avoid generating and inhaling dusts. If dust exists, wear dust respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and protective equipment before storing or re-using.

WHEN MIXING AND USING: Avoid contact with eyes and skin. Do not inhale dust or spray mist. Obtain an emergency supply of atropine tablets 0.6mg. When opening the container, preparing spray and using the prepared spray wear cotton overalls buttoned to the neck and wrist or equivalent clothing, elbow-length PVC gloves and face shield or goggles. If product on skin, immediately wash area with soap and water.

AFTER USE: After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. After each day's use, wash gloves, face shield or goggles and contaminated clothing. Only use protective equipment bearing the mark of the Standards Association of Australia.

FLAMMABILITY

This product is a combustible solid.

SAFE HANDLING INFORMATION**STORAGE AND TRANSPORT**

Store in closed, original container in a dry cool, well-ventilated area out of direct sunlight. Store in a locked room or place away from children, animals, food, feedstuffs, seed and fertilisers.

This material is a Schedule 6 poison and must be stored, maintained and used in accordance with the relevant regulations.

Transport Classification – Road, Rail, Sea and Air:

UN No.:	2757	Proper Shipping Name:	CARBAMATE PESTICIDE, SOLID, TOXIC
Class:	6.1		(CONTAINS PIRIMICARB 50%)
Packing Group:	III	Additional Information:	MARINE POLLUTANT

Segregation:

Not to be loaded with explosives (class 1), oxidizing agents (class 5.1), organic peroxides (class 5.2), foodstuffs and foodstuff empties, however exemptions may apply.

SPILLS AND DISPOSAL

In case of spillage it is important to take all steps necessary to:

- Avoid eye and skin contact.
- Avoid contamination of waterways.
- Shut off all possible sources of ignition. DO NOT smoke.

Procedure for spill:

- (1) Keep all bystanders away.
- (2) Wear full length clothing and PVC gloves.
- (3) Re-position any leaking containers so as to minimise further leakage.
- (4) **For a product spill:** Sweep granule concentrate into a pile.
For a prepared spray spill: Dam and absorb spill with an absorbent material (e.g. sand or soil).
- (5) Shovel the absorbed material or granule concentrate into drums.
- (6) Disposal of the absorbed material will depend upon the extent of the spill.
 - For quantities up to 50kg of product bury in a secure landfill site.
 - For quantities greater than 50kg seek advice from the manufacturer (use emergency contact number below) before attempting disposal. Contain in a secure location until disposal method is established.
- (7) Decontaminate the spill area with detergent and water and rinse with water.

Dispose of empty, used containers by:

- (a) Single rinse before disposal. Add rinsings to the spray tank.
- (b) DO NOT dispose of undiluted chemicals on-site.
- (c) Puncture and bury empty containers in a local authority landfill. If no landfill is available, bury the containers below 500mm in a disposal pit specifically marked and set up for this purpose, clear of waterways, vegetation and roots. Empty containers and product should not be burnt.

FIRE/EXPLOSION HAZARD

This product is combustible. In common with many organic chemicals, may form flammable dust clouds in air. Keep containers cool with water spray. Extinguish warehouse and factory fires using water fog (if unavailable use fine water-spray), foam, dry agent (carbon dioxide, dry chemical powder). During a fire this product may release smoke and hazardous decomposition products. When fighting a major fire wear SCBA and structural firefighters uniform. DO NOT allow fire-water to enter drains.

OTHER INFORMATION

The active ingredient **Pirimicarb** is very toxic to aquatic organisms. Contamination of waterways should be strictly avoided. DO NOT apply under weather conditions or from spraying equipment which could be expected to cause spray to drift onto adjacent areas, particularly streams, rivers or other waterbodies.

Rainbow Trout, *Oncorhynchus mykiss*, LC₅₀ (96 h) = 29 mg/L

Bluegill Sunfish, LC₅₀ (48 h) = 55 mg/L

Water Flea, *Daphnia magna*, LC₅₀ (48 h) = 0.08 ppm

Pirimicarb is moderately to highly toxic to bees (LD₅₀ (24h) oral = 1 - 5 µg/bee, contact = 20 - > 50 µg/bee).

Pirimicarb is highly toxic to birds (poultry: LD₅₀ = 25 - 50 mg/kg; bobwhite quail: LD₅₀ = 8.2 mg/kg, mallard duck: LD₅₀ = 17.2 mg/kg).

This substance has low mobility in the soil and low potential for bioaccumulation. There is evidence of rapid degradation in soil.

Note: This product is a registered agricultural chemical and must 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 Federal health and environment authorities and has been evaluated by expert toxicologists and environmental scientists.

<p>CONTACT POINT: Regulatory Affairs Manager - Crop Protection - (02) 9688 0444 24 HOURS EMERGENCY CONTACT: 1 800 033 111</p>

This Material Safety Data Sheet summarises our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this MSDS and consider the information in the context of how the product will be handled and used in the workplace including in conjunction with other products.

If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company.

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Acknowledgments:

Collated by HerbiGuide. Phone 08 98444064 for more information.