

SAFETY DATA SHEET

PIRIGRO® 500WDG

SECTION 1: IDENTIFICATION OF THE SUBSTANCE AND COMPANY

1.1 Identifiers

Product name: **PiriGro® 500WDG**
 Other Name(s): 500g/kg pirimicarb in the form of a water dispersible granule.

1.2 Recommended use of the chemical and restrictions on use

Product Use: For aphid control in Fruit, Cereal, Vegetable and Flowering Crops.

1.3 Supplier contact details:

Company name: Grosafe Chemicals Limited
 Address: 20 Jean Batten Drive Mt Maunganui, 3116
 Telephone: 0800 220 002
 Email: info@grosafe.co.nz

Emergency telephone number (24 hour) 0800 CHEMCALL (0800 243 622)

SECTION 2: HAZARD IDENTIFICATION

2.1 Classification of the substance

Hazardous substance according to Hazardous Substances and New Organisms (HSNO) Act 1996
 HSNO Approval: HSR000703

Hazard Classifications: Acute oral toxicity Category 3, Acute inhalation toxicity Category 4, Skin sensitisation Category 1; Eye irritation Category 2, Specific target organ toxicity (repeated exposure) Category 2, Hazardous to the aquatic environment acute Category 1, Hazardous to the aquatic environment chronic Category 1, Hazardous to terrestrial vertebrates, Hazardous to terrestrial invertebrates.

2.2 Label elements:

Pictograms:



Signal Word: DANGER

Hazard statements:

H301 Toxic if swallowed.
 H332 Harmful if inhaled.
 H317 May cause an allergic skin reaction.
 H319 Causes serious eye irritation.
 H373 May cause damage to organs through prolonged or repeated exposure.
 H400 Very toxic to aquatic life

H410 Very toxic to aquatic life with long lasting effects.
 Hazardous to terrestrial vertebrates
 Hazardous to terrestrial invertebrates

Precautionary statements:

Prevention

P102 Keep out of reach of children.
 P103 Read label before use.
 P260 Do not breathe dust, fumes, mist or vapours.
 P264 Wash hands and exposed skin 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.
 P280 Wear eye protection/face protection and protective gloves.

Response

P101 If medical advice is needed, have product container or label at hand.
 P301 + P310 + P331 IF SWALLOWED: IMMEDIATELY call the POISON CENTER or doctor/physician.
 P330 Rinse mouth.
 P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
 P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.
 P304 + P340 IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
 P312 Call a POISON CENTER or doctor/physician if you feel unwell.
 P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P337 + P313 If eye irritation persists: Get medical advice/attention.
 P314 Get medical advice/attention if you feel unwell.
 P362 + P364 Take off contaminated clothing and wash before reuse.
 P391 Collect spillage.

Storage

P405 Store locked up.

Disposal

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

Additional labelling statements required under Hazardous Substances (Labelling) Notice 2017

Do not apply directly into or onto water.

Take all reasonable steps to ensure that the substance does not cause any significant adverse effects to the environment beyond the application area

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS	Proportion %w/w
Pirimicarb	23103-98-2	50
Other ingredients that don't contribute to the hazard classifications of this product	-	50

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

General Information:

For advice, or if you feel unwell, call NATIONAL POISONS CENTRE (0800 POISON) for advice. Have product container or label at hand.

IF SWALLOWED: Rinse mouth. IMMEDIATELY call a POISON CENTER or doctor/physician.

IF ON SKIN: Take off contaminated clothing and wash before re-use. Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

Important symptoms and effects, both acute and delayed:

Poisoning produces effects associated with anticholinesterase activity which may include: Nausea Diarrhoea Vomiting.

Medical attention and special treatment

Consider taking venous blood for determination of blood cholinesterase activity (use heparin tube). Administer atropine sulphate as antidote.

SECTION 5: FIRE FIGHTING MEASURES

5.1 Suitable extinguishing media

Water fog, foam, carbon dioxide or dry chemical. Do not use direct jet of water.

5.2 Hazards from Combustion Products

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

5.3 Specific hazards arising from this chemical

Do not allow washings to reach sewage or effluent systems. Keep containers cool with water spray.

5.4 Precautions in connection with fire

Isolate fire area. Evacuate downwind. Firefighters to wear self-contained breathing apparatus and suitable protective clothing if risk to of exposure to vapour or smoke. Keep containers cool by spraying with water. Do not breathe or contact smoke, gases or vapours generated. Contain all runoff.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Have this SDS available. In the event of an accidental spill, wear full protective clothing including respiratory, gloves and eye/face protection. Wash contaminated personal protective equipment and clothing, and dry before re-use.

6.2 Environmental precautions

Prevent spillage from entering drains or waterways. If contamination of drains, streams, watercourses, etc. is unavoidable, advise the local water authority.

6.3 Methods and materials for containment and cleaning up

Contain spilled material. Sweep up without generating dust and place in labelled containers for disposal. For small liquid spills, use absorbent material such as sand, soil, vermiculite and recover into labelled drums that can be sealed for safe disposal. For large liquid spills, recover liquid into labelled containers then absorb remaining liquid and transfer to drums for disposal. Clean area with water and detergent. Dispose of contaminated materials to approved landfill in accordance with local regulations.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Keep out of reach of children. Read the product label before use. Wear protective eye protection/face protection, protective gloves and protective clothing. Wash hands and any exposed skin thoroughly after handling. Do not breathe dust, fumes, mist or vapours. 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.

7.2 Conditions for safe storage

Store locked up in the tightly closed, original container in a cool, well-ventilated area. Do not store for prolonged periods in direct sunlight. DO NOT store near foodstuffs, stock food or seed. It is recommended that storage is conducted in accordance with The New Zealand Standard for the Management of Agrichemicals (NZS 8409).

SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

8.1 Occupational exposure limit values

No exposure limit established

8.2 Biological limit values

No exposure limits allocated.

8.3 Engineering controls

Use in well-ventilated areas only. Use local exhaust at all process locations. Ventilate all transport vehicles prior to unloading. Keep containers closed when not in use. Refer to relevant regulations for further information concerning ventilation requirements.

8.4 Personal protective equipment (PPE)

The following Standards provide general advice regarding safety clothing and equipment:

Respiratory equipment: **AS/NZS 1715**, Protective Gloves: **AS 2161**, Occupational Protective Clothing: **AS/NZS 4501**, Industrial Eye Protection: **AS1336** and **AS/NZS 1337**, Occupational Protective Footwear: **AS/NZS2210**.

Eye/Face Protection: Wear protective glasses, goggles or face shield when mixing or applying product.

Skin Protection: Wear impervious gloves, coat, trousers, waterproof hat. Ensure all skin areas are covered.

Respirator: Where product is being sprayed and a mist could be produced, a respirator should be worn. It should be fitted with a cartridge suitable for agricultural chemicals.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Off-white to brown granule
Odour	No odour
Odour threshold	Not available
pH	6.0 – 9.0
Melting/Freezing Point	190°C
Boiling Point /Range	Not available
Flash point	Not available
Flammability (solid, gas)	Not applicable
Upper/lower flammability or explosive limits	No data

Vapour Pressure	Not available
Vapour density	No data
Relative density	No data
Solubility	Disperses in water.
Partition Co-efficient n-octanol/water	No data
Auto-ignition temperature	No data
Decomposition temperature	No data
Viscosity	No data
Particle characteristics	No data

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity and stability

Stable under normal conditions of storage and handling. Relatively stable in neutral, weakly acidic and weakly alkaline media.

10.2 Conditions to Avoid

Do not store for prolonged periods in direct sunlight.

10.3 Incompatible materials

Explosives (class 1), oxidising gases, oxidising liquids, oxidising solids, organic peroxides.

10.4 Hazardous decomposition products

Product is unlikely to decompose until heated to dryness. On further heating will emit unidentified toxic fumes.

10.5 Possibility of hazardous reactions

No information available.

10.6 Hazardous Polymerisation

No information available.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Health hazard information

The product is classified for health hazards according to an assessment of information on product components.

11.2 Toxicological information

Acute toxicity:	Toxic if swallowed. Harmful if inhaled.
Aspiration hazard:	Not classified.
Respiratory or skin sensitisation:	Classified as skin sensitiser.
Skin corrosion/irritation	Not classified.
Serious eye damage/irritation	Causes severe eye irritation.
Germ cell mutagenicity:	No ingredients in product identified as presumed or suspected mutagens.
Carcinogenicity	No ingredients in product identified as presumed or suspected carcinogens.
Reproductive toxicity	No ingredients in product identified suspected of damaging fertility or the unborn child.
Specific target organ toxicity – single/repeated exposure	May cause damage to organs through prolonged or repeated exposure.
Narcotic effects	Product contains no ingredient identified as causing narcotic effects.

11.3 Toxicological data

No data for formulated product.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Ecotoxicity

This product is classified as Hazardous to the aquatic environment acute Category 1, Hazardous to the aquatic environment chronic Category 1, Hazardous to terrestrial vertebrates, Hazardous to terrestrial invertebrates.

No data available for formulated product. The following data is for the active ingredient, pirimicarb tech.

Aquatic life : LC50 (96 hr) for rainbow trout is 79 mg/L, bluegill sunfish 55mg/L fathead minnows >100mg/L. EC50 (48hr) for daphnia is 0.017 mg/L. Algae EC50 (96 h) for Selenastrum sp. 140 mg/l.

Birds: Acute oral LD50 for mallard ducks 28.5, bobwhite quail 20.9 mg/kg

Bees: Not toxic to bees. LD50 (24H) oral 4µg/bee (tech); (contact) 53µg/bee (tech).

Worms: LC50 (14 d) >60 mg/kg

12.2 Persistence and degradability

Moderately persistent (pirimicarb). DT₅₀ (typical) 73.6.

12.3 Mobility

Moderately mobile (pirimicarb).

12.4 Bioaccumulative Potential

Low potential (pirimicarb). BCF (l kg⁻¹) 24.

12.5 Other adverse effects

No data available for formulated product.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Product Disposal

Dispose of this product only by using according to the label, or through a Chemical Recovery service or other licensed hazardous waste disposal facility.

13.2 Container Disposal

Triple rinse empty container and add rinsate to spray tank. Submit clean empty container to an Agrecovery® depot for recycling. Alternatively, puncture and dispose of at an approved landfill.

13.3 Precautions

Do not allow product or empty container to enter waterways.

13.4 Disposal methods to avoid

Do not burn empty container. Do not allow product or empty container to enter waterways.

SECTION 14: TRANSPORT INFORMATION

Road and Rail Transport:

Classified as Dangerous Goods for the transport according to the New Zealand Standard NZS 5433:2012 Transport of Dangerous Goods on Land.

Marine Transport (IMO/IMDG):

Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

Air Transport (ICAO/IATA):

Classified as Dangerous Good by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulation for transport by air.

UN Number:	2757
UN Proper Shipping Name:	CARBAMATE PESTICIDE, SOLID, TOXIC, N.O.S. (PIRIMICARB 50%)
Transport hazard class(es)	6.1
Packing Group:	III
Hazchem	2X
Special Precautions for User:	Not available
IMDG Marine pollutant:	Yes
Transport in Bulk:	Not available

SECTION 15: REGULATORY INFORMATION

Hazardous substance according to Hazardous Substances (Hazard Classification) Notice 2020.

Approval number:	HSR000703
Hazardous classifications:	Acute oral toxicity Category 3, Acute inhalation toxicity Category 4, Skin sensitisation Category 1; Eye irritation Category 2, Specific target organ toxicity (repeated exposure) Category 2, Hazardous to the aquatic environment acute Category 1, Hazardous to the aquatic environment chronic Category 1, Hazardous to terrestrial vertebrates, Hazardous to terrestrial invertebrates.
HSW (HS) Regulations 2017	Trigger Quantity
Certified Handler	Not required
Qualifications	Qualifications needed for mixing or loading this substance in preparation for application. Refer to Schedule 10 of the Hazardous Substances (Hazardous Property Controls) Notice 2017.
Location Certificate	100kg
Signage Trigger Quantity (Schedule 3)	100kg
Emergency Response Plan (Schedule 5)	100kg
Secondary Containment (Schedule 16)	100kg
Tracking (Schedule 26)	Not required
Tolerable Exposure Level (TEL)	None set
Environmental Exposure Level (EEL)	None set
International Agreements	Not applicable
Additional controls	This product is restricted to workplaces only. A person who applies this substance by a ground-based application method that is not listed in Table 2 of Schedule 10 of the Hazardous Substances (Hazardous Property Controls) Notice 2017 must have one of the qualifications listed in column 1 of the last row of Table 2.
Additional information:	Refer to HS Notices (www.epa.govt.nz) and HSW HS Regulations (www.worksafe.govt.nz)
ACVM registration:	Registered pursuant to the Agricultural Compounds and Veterinary Medicines Act 1997; registration number P010177.

SECTION 16: OTHER INFORMATION

16.1 Date of preparation or last revision of SDS

SDS issued	03 September 2024
SDS supersedes	N/A
Reason issued	Initial SDS

16.2 ABBREVIATIONS

ADI	Acceptable Daily Intakes
CAS number	Chemical Abstracts Service Registry Number
CCID	Chemical Classification Identification Database
EPA	Environmental Protection Authority
ErC₅₀	Half maximal Effective Concentration
GHS	Globally Harmonized System of Classification and Labelling of Chemicals
Hazchem Code	Emergency action code of numbers and letters that provide information to emergency services especially firefighters
HSNO	Hazardous Substances and New Organisms
HS	Health and Safety
HSR	Hazardous Substances Register
IARC	International Agency for Research on Cancer
LC₅₀	Median Lethal Concentration
LD₅₀	Median Lethal Dose
SDS	Safety Data Sheets
NOAEL	No Observable Adverse Effect Level
NOEL	No Observable Effect Level
NOS	Not otherwise specified
STEL	Short Term Exposure Limit
SWA	Safety Work Australia
TWA	Time-Weighted Average
UN Number	United Nations Number

16.3 REFERENCES

Manufacturer information
 EPA CCID and Approved Substance databases
 University of Hertfordshire Pesticides Properties Database

16.4 OTHER

PiriGro® is a registered trademark of Grosafe Chemicals Ltd

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End of Safety Data Sheet