



Issue date 20 May 2024

SAFETY DATA SHEET

Section 1. Identification of the material and supplier

Product Identifier:	BINKILL PROTECTOR
Other means of identification:	Proper Shipping name: Binkill Protector Product code: APVMA 67600
Recommended use of the chemical and restrictions on use:	Insecticide for external rubbish disposal bins.
Details of manufacturer or importer:	Enviroside International Pty Ltd. ABN: 32 670 385 912 244 Weller Road Tarragindi, QLD 4121 AUSTRALIA
Telephone Number:	0455 340 490
Emergency Telephone number:	24 hours - 0455 340 490

Section 2: Hazards Identification

Not Classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for transport by Road and Rail; **DANGEROUS GOODS.**

Based on available information, classified as hazardous according to Safe Work Australia;
HAZARDOUS CHEMICAL.

Acute toxicity, Oral (Category 4),
Acute toxicity, Inhalation (Category 4),
Sensitisation – Skin: (Category 1)
Acute Aquatic Toxicity (Category 1)

Signal Word: Warning

Hazard Statements:

H302 Harmful if swallowed
H332 Harmful if inhaled
H317 May cause an allergic skin reaction.
H400 Very toxic to aquatic life.

Precautionary statements:

Prevention

P102 Keep out of reach of children.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P264 Wash 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 protective gloves/ protective clothing/eye protection/face protection.

Response

P304 + P340 If INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell.
P302 + P352 + P333 IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/ attention.
P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell.
P330 Rinse mouth.
P363 Wash contaminated clothing before reuse.

Storage

P404 Store in closed package
P403 + P235 Store in a well-ventilated place. Keep cool.

Other hazards

None

Hazard Symbols



Section 3. Composition and information on ingredients

Chemical Identity	Synonym	CAS Number	Proportions (%w/w)
Dichlorvos (2,2-dichlorovinyl dimethyl phosphate)	-	62-73-7	18.6% (186 g/kg)
Non-Hazardous ingredients	-	-	To 100%

Section 4. First aid measures

In case of poisoning contact a doctor or Poisons Information Centre on 131 126, New Zealand 0800 764 766. Have the product label or SDS with you when calling or going for treatment.

Ingestion: If swallowed, do NOT induce vomiting: rinse mouth thoroughly with water and contact Poisons Information Centre. or If swallowed, never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Eye Contact: If eye contact is made, rinse eye with water for several minutes, if eye irritation continues, see a doctor.

Skin Contact: Take off all contaminated clothing immediately. Wash off immediately with plenty of water. If irritation persists, call a physician. Wash contaminated clothing before re-use.

Inhalation: Move person to fresh air. If breathing is continuing to be irregular, Keep patient warm and at rest. Call a physician or Poisons Information Centre immediately.

Symptoms caused by exposure: Symptoms include inflammation of the mouth, throat and oesophagus, gastrointestinal discomfort and diarrhoea

Medical attention and special treatment: No data available

Section 5. Firefighting measures

Suitable extinguishing equipment:

Water Foam Carbon dioxide (CO₂) Dry powder

Specific Hazards arising from the chemical:

Carbon oxides, oxides of phosphorus, hydrogen chloride gas, combustible

Special protective equipment and precautions for firefighters:

Isolate fire area. Evacuate downwind residents. Wear full protective clothing and self-contained breathing apparatus. Do not breathe smoke or vapours generated.

Hazchem Code: N/A

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Wear protective equipment to prevent skin contamination.

Environmental precautions:

Prevent any product from entering open drains and into waterways

Methods and materials for containment and cleaning up:

In the case of spillage, contain spilled material and dispose of waste as indicated in section 13.

Section 7. Handling and storage

Precautions for safe handling:

Do not open inner pouch until ready for use. Do not remove the insecticidal strip from the plastic case. Do not allow children to play with the strip. Wash hands after use.

Conditions for safe storage, including any incompatibilities:

Store in the closed, original container in a well-ventilated area. Do not store for prolonged periods in direct sunlight.

This product is a schedule 5 (S5) poison.

Section 8. Exposure controls and personal protection

Component	TWA 8h	TWA 5 days	STEL	Peak limitations (if available)
Dichlorvos	0.1 ppm 0.9 mg/m ³	-	Not set	-

Biological monitoring:

No biological limits allocated

Control banding:

Data is not available.

Engineering controls:

Use in ventilated areas. Do not open containers when not in use. No special engineering controls are required for normal use. Do not let product enter drains

Individual protection measures, for example personal protective equipment (PPE):

In normal use, no protective equipment is required, as this product has no active ingredient available for direct contact with body, at exposure levels to cause immediate health risks.

Other information.

Reference standards for (PPE).

Respiratory protection: AS/NZS 1715 and AS/NZS 1716.

Gloves: AS/NZS 2161.1.

Eye protection: AS/NZS 1336 and AS/NZS 1337

Section 9. Physical and chemical properties

Appearance	Yellow or blue plastic strips in a plastic 'cage'
Auto-ignition temperature:	Data is not available
Decomposition temperature:	Data is not available
Evaporation rate:	Data is not available
Flammability (solid, gas):	Combustible solid
Flash point:	Not applicable - solid
Initial boiling point and boiling range:	Approx. > 200°C
Melting point/freezing point	Not applicable - solid at room temperature
Odour:	Mild chemical odour
Odour threshold:	Data is not available
Partition coefficient: n-octanol/water:	Data is not available
pH:	Data is not available
Relative density:	1.26 g/ml
Solubility:	Insoluble in water
Upper/lower flammability or explosive limits:	Not applicable - solid
Vapour density:	Not applicable - solid
Vapour pressure:	Not applicable - solid
Viscosity:	Not applicable - solid

Other physical/chemical parameters

Biodurability or biopersistence:	Data is not available
Crystallinity:	Data is not available
Degree of aggregation or agglomeration and dispersibility:	Data is not available
Dustiness:	Data is not available
Particle size (average and range):	Data is not available
Redox potential:	Data is not available
Release of invisible flammable vapours and gases:	Data is not available
Saturated vapour concentration:	Data is not available
Shape and aspect ratio:	Data is not available
Size distribution:	Data is not available
Specific heat value:	Data is not available
Surface area:	Data is not available
Surface coating or chemistry:	Data is not available

Section 10. Stability and reactivity

Reactivity:	Stable and non-reactive at ambient conditions
Chemical stability:	Product is stable at ambient conditions.
Possibility of hazardous reactions:	No hazardous reactions at ambient conditions
Conditions to avoid:	Extreme heat, strong alkalis, oxidisers and reducing agents. Contact with fuels and other organic or combustible materials. Strong reducing agents.
Incompatible materials:	Strong oxidising agents.
Hazardous decomposition products:	Combustion or thermal decomposition will evolve toxic and irritant vapours.

Section 11. Toxicological information

Information on possible routes of exposure:

Relevant values for classification

Chemical	LD ₅₀ (Oral)	LC ₅₀ (Inhalation)	LD ₅₀ (Dermal)
Dichlorvos (2,2-dichlorovinyl dimethyl phosphate)	56 mg/kg (Rat)	83 mg/m ³ air - (4h) (Rat)	75mg/kg in rabbits

Acute Health Effects

Inhalation:

Unlikely to inhale as product is in solid form. Material contains a cholinesterase inhibitor. Inhalation of vapour may cause headaches, dizziness, irregular breathing and confusion.

Skin:

Unlikely to have skin contact with normal use. Skin contact may cause skin sensitisation.

Eye:

Unlikely to have eye contact with normal use. May be irritating.

Ingestion:

Harmful if swallowed. If swallowed, may cause irritation to mouth, throat and stomach. Can be fatal to children if sucked or swallowed.

Skin Corrosion / Irritation:

Unlikely to have skin contact with normal use. Skin contact may cause skin sensitisation.

Serious Eye Damage / Irritation:

Unlikely to have skin contact with normal use. Skin contact may cause skin sensitisation.

Respiratory or Skin Sensitisation:

Based on classification principles, the classification criteria are not met.

Germ Cell Mutagenicity:

Based on classification principles, the classification criteria are not met.

Carcinogenicity:

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive Toxicity: Based on classification principles, the classification criteria are not met.

Specific Target Organ Toxicity (STOT) - Single Exposure:

May cause respiratory irritation.

Specific Target Organ Toxicity (STOT) - Repeated Exposure:

Based on classification principles, the classification criteria are not met.

Aspiration Hazard:

Based on classification principles, the classification criteria are not met.

Chronic Health Effects:**Existing Conditions Aggravated by Exposure:**

Pre-existing allergies, eye, skin and respiratory disorders.

Early onset of symptoms related to exposure:

First symptoms on exposure being headaches and dizziness

Delayed health effects from exposure:

Delayed or immediate effects from exposure (if any) can be expected within 24 hrs of exposure and include skin irritation and headache. Regular exposure may result in lowering of cholinesterase activity which will recover within a few days after exposure ceases.

Exposure levels and health effects:

Dichlorvos is an anticholinesterase compound. Regular exposure may result in lowering of cholinesterase activity which will recover within a few days after exposure ceases.

Interactive effects:

Health effects from exposure can be worsened by drinking alcohol, taking medication or smoking. Pre-existing medical conditions such as asthma, high blood pressure or a predisposition to allergic reactions may increase risk.

Other information:

No data available.

Section 12. Ecological Information

Ecotoxicity:

Component	Toxicity to fish:	Toxicity to daphnia and other aquatic invertebrates:	Toxicity to bacteria:
Dichlorvos (2,2-dichlorovinyl dimethyl phosphate)	Slightly toxic to fish (Guppy): LC50 = 0.67 mg/l	Toxic to aquatic invertebrates <i>Daphnia magna</i> (Water flea), EC50 = 0.83 mg/l, 48 h	No data available

Persistence and degradability:

Readily biodegradable.

Bioaccumulative potential:

No data available

Mobility in soil:

No data available

Other adverse effects:

No information available (environmental fate, ozone depletion, photochemical ozone creation potential, endocrine-disruption potential and global warming potential.)

Section 13. Disposal consideration

Disposal Methods and Containers: Dispose according to applicable local and state government regulations.

Special Precautions for Landfill or incineration:

Persons conducting disposal, recycling or reclamation activities should ensure that appropriate personal protection equipment is used, see "Section 8. Exposure Controls and Personal Protection" of this SDS.

If possible, material and its container should be recycled. If material or container cannot be recycled, dispose in accordance with local, regional national and international Regulations.

Section 14. Transport Information

ROAD AND RAIL TRANSPORT

Not Classified as Dangerous Goods by the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail. (ADG Code).

MARINE TRANSPORT

Not Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code. "IMDG". No special transport conditions unless required by other regulations.

AIR TRANSPORT

Not Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

Special precautions for user: No special requirements

Hazchem Code: N/A
(ADG)

Additional information:

No additional information available.

Section 15. Regulatory information

This material is not subject to the following international agreements:

- Montreal Protocol (Ozone depleting substances)
- The Stockholm Convention (Persistent Organic Pollutants)
- The Rotterdam Convention (Prior Informed Consent)
- Basel Convention (Hazardous Waste)
- International Convention for the Prevention of Pollution from Ships (MARPOL).

This material/constituent(s) is covered by the following requirements:

- the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) established under the Therapeutic Goods Act 1989 (Cwlth) (as amended). **If so, list the relevant Poisons Schedule number.** A poison schedule number has been allocated to this product.
- All components of this product are listed on or exempt from the Australian Inventory of Chemical Substances (AICS).

- All components of this product are listed on or exempt from the European Inventory of Existing Chemical Substances (EINECS)

Under the Standard for Uniform Scheduling of Medicines and Poisons (SUMDP), this product is a **Schedule 5 (S5) poison**.

This product is registered under the Agricultural and Veterinary Chemicals Code Act 1994.

Product registration - **APVMA No. 67600**.

Source of data

This SDS has been prepared in accordance with the Safe Work Australia Preparation of safety data sheets for hazardous chemicals Code of Practice, prepared under the Work Health and Safety Act and Work Health and Safety Regulations.

Code of Practice: Labelling of workplace hazardous chemicals

'Standard for the Uniform Scheduling of Medicines and Poisons

Hazard Classification

Australian Inventory of Chemical Substances (AICS) (NICNAS)

Chemical Assessment Reports (NICNAS)

Workplace Exposure Standards for Airborne Contaminants

Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

(United Nations) Global Portal to Information on Chemical Substances (OECD).

OECD means the Organisation for Economic Cooperation and Development.

Hazardous Chemical Information System

European Chemicals Agency (ECHA)

Other references

National Road Transport Commission, 'Australian Code for the Transport of Dangerous Goods by Road and Rail.

IMDG: International Maritime Code for Dangerous Goods.

IATA: International Air Transport Association.

IARC: International Agency for Research on Cancer.

Lewis, Richard J. Sr. 'Hawley's Condensed Chemical Dictionary 13th. Ed.', Rev., John Wiley and Sons, Inc., NY, 1997.

Australian Emergency Response Guidebook

Section 16. Other Information

Date of preparation: 17 May 2024

Reason for issue: New review and format update

Prepared by: ChemVit Consulting Pty Ltd. www.chemvit.com.au

Key abbreviations or acronyms used.

< Less Than. > Greater Than. AICS Australian Inventory of Chemical Substances. atm Atmosphere. CAS Chemical Abstracts Service (Registry Number). cm² Square Centimetres. deg C (°C) Degrees Celsius. CNS Central Nervous System EC No European Community number. g Grams g/cm³ Grams per Cubic Centimetre. g/l Grams per Litre. IDLH Immediately Dangerous to Life and Health. LC50 LC stands for lethal concentration. LC50 is the concentration of a material in air which causes the death of 50% (one half) of a group of test animals. The material is inhaled over a set period, usually 1 or 4 hours. LD50 LD stands for Lethal Dose. LD50 is the amount of a material, given all at once, which causes the death of 50% (one half) of a group of test animals.	mg/m³ Milligrams per Cubic Metre NIOSH National Institute for Occupational Safety and Health. NOHSC National Occupational Health and Safety Commission. OECD Organisation for Economic Co-operation and Development. ppb Parts per Billion. ppm Parts per Million. psi Pounds per Square Inch. REACH Regulation on Registration, Evaluation, Authorisation and Restriction of Chemicals. SWA Safe Work Australia. STEL Short Term Exposure Limit. TLV Threshold Limit Value. TWA Time Weighted Average. UN United Nations.
---	--

Disclaimer

This Safety Data Sheet was prepared in good faith from the best information available at that time of issue and is based on the present state of our knowledge and to this extent we believe it is accurate. However, no guarantee of accuracy is made or implied and since conditions of use are beyond our control, all information relevant to usage is offered without warranty. Enviroside International Pty Ltd and its Affiliates or Agents shall not be held liable or responsible for any damage or unauthorised use of this information or from contact with this product.

In all cases please ensure you have the current version. The user is cautioned to make their own determinations as to the suitability of the information provided to the circumstances in which the product is used.

END OF SDS