

**PERIGEN® 500
Spray and Residual
Insecticide**
Date of Issue: 28th March, 2011

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1. Identification of the Substance/Mixture and Supplier

Product name:	Perigen® 500 Spray and Residual Insecticide
Recommended Use:	A liquid insecticide concentrate for use against timber and household insect pests
Company details:	Bayer New Zealand Limited 3 Argus Place Glenfield Auckland New Zealand
Telephone:	0800 227 012
Facsimile:	0800 227 011
Emergency telephone:	0800 734 607 Orica SH&E Shared services (24hr)

2. Hazards Identification

Hazard classification:	Classified as hazardous according to the criteria in the Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001.
Classification and type:	HSNO Class* 3.1D, 6.1D, 6.3B, 6.4A, 6.5A, 6.5B, 6.9B, 9.1A, 9.3B, 9.4A Low hazard flammable liquid. May be harmful if swallowed, inhaled or absorbed through skin. Causes mild skin irritation. Causes eye irritation. May cause respiratory sensitisation. May cause sensitisation from prolonged skin contact. May cause organ damage from repeated oral exposure Very toxic to aquatic life. Toxic to terrestrial vertebrates. Very toxic to terrestrial invertebrates.
Risk & Safety Phrases:	R65

3. Composition/Information on Ingredients

Common name:	Pure substance: Permethrin 25:75		
Synonyms:	None		
Chemical identity of ingredients:	Mixture:		
	Ingredient	CAS No.	Content (g/L)
	Permethrin 25:75	52645-53-1	500

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	Hydrocarbon solvent Other ingredients (non-hazardous)	64742-94-5	335 225
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4. First Aid Measures

Description of necessary First Aid measures:	In case of poisoning by any exposure route contact the National Poisons and Hazardous Chemicals Information Centre, PO Box 913, Dunedin. Phone 0800 764 766, 0800 POISON.
Workplace facilities:	No specific facilities required. Standard emergency equipment must be available.
Poisoning symptoms:	Burning sensations on the skin, irritation of the mucous membranes, coughing and sneezing may be experienced. Following severe intoxication, respiratory effects can include chest tightness, airway hyperreaction, and pulmonary oedema. Possible circulatory effects include tachycardia, hypotension, and palpitations. Gastrointestinal symptoms may include nausea, vomiting, diarrhoea, and abdominal pain. Potential Central Nervous System effects are dizziness, blurred vision, headache, listlessness, anorexia, somnolence/coma, seizures/convulsions, tremor, and prostration
Ingestion:	Do not induce vomiting. Seek immediate medical advice.
Eye:	Immediately rinse eyes thoroughly, including under eyelids, with running water for at least 15 minutes. Seek immediate medical advice.
Skin:	Carefully remove contaminated clothing and footwear. Wash affected areas with soap and water. Apply vitamin E cream, toilet milks or local anaesthetic creams to reduce irritation if it occurs. Seek medical advice if at all worried. Launder contaminated clothing before re-use.
Inhaled:	Remove person to fresh air. Keep at rest. Seek medical advice if exposure has been more than trivial. Administer artificial respiration if breathing has stopped.
Treatment:	Treat large intakes with gastric lavage, and charcoal administration. Use endotracheal intubation, and artificial respiration (if necessary). Monitor respiratory and cardiac functions. Observe electrocardiograph, and check for pulmonary oedema in event of inhalation. Anticonvulsant therapy with diazepam i.v. As no antidote is known, treatment is symptomatic. Contraindication – adrenergic compounds, atropine. DO NOT confuse with anticholinesterase compounds. Skin contacted by permethrin must be carefully cleaned with cleansing milk. Symptoms can be partially alleviated by the application of a vitamin E or moisturising cream or anaesthetic

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	ointment. For eyes, instil local anaesthetic drops e.g. 1% amethocaine hydrochloride eye drops. Give analgesics as necessary.
5. Fire-Fighting Measures	
Fire Hazard properties:	In case of fire, the evolution of dangerous gases is possible.
Extinguishing media:	Foam, dry chemical or water spray. Do not use a water jet from a fire hose.
Recommended protective clothing:	This product is a combustible liquid. Fire fighters should wear full protective clothing and self-contained breathing apparatus. Do not release contaminated water into the environment. Keep intact containers cool by spraying with water. Keep people away and upwind.
6. Accidental Release Measures	
Personal precautions:	Emergency procedures: 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.
Procedure for spill:	Keep all bystanders away. Wear goggles, half face-piece respirator with combined dust and vapour cartridge, full length clothing and PVC gloves. Contaminated material must be disposed of in accordance with all local authority requirements. <ul style="list-style-type: none"> • For quantities up to 50 kg of product bury in a secure approved landfill site. • For quantities greater than 50 kg seek advice from the manufacturer (use emergency contact number) before attempting disposal. Contain in a secure location until disposal method is established. Decontaminate the spill area with detergent and water and rinse with the smallest volume of water practicable.
7. Handling and Storage	
Handling practices:	Keep out of reach of children. Avoid contact with skin and eyes and do not inhale spray mist. Use only in a well-ventilated area. Do not

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	apply in the presence of naked flames, hot surfaces or unprotected electrical equipment. Use proper grounding procedures.
Conditions for safe storage and store site requirements:	Store in a cool, dry, well ventilated place and protect from sunlight. Avoid temperatures below 0 °C or above 30 °C.
Packaging:	Store in original container, tightly closed, away from foodstuffs.

8. Exposure Control/Personal Protection

Engineering measures:	Control process conditions to avoid contact. Use local exhaust ventilation. Keep product away from sources of ignition.
Respiratory protection:	Wear an approved respirator to prevent inhalation, if insufficient ventilation.
Eye protection:	Avoid contact with the eyes. Wear safety goggles. Wear a face shield if splashing is possible.
Other protective equipment:	Wear suitable protective clothing and gloves.
Hygiene measures:	Avoid contact with eyes and skin. Do not inhale vapour and spray mist. Wash thoroughly with soap and water after use and before eating, drinking or smoking. After each day's use wash face shield, gloves and contaminated clothing. Store work clothes and street clothes separately. Do not eat, drink or smoke while using.

9. Physical and Chemical Properties

Form:	Emulsifiable concentrate
Colour:	Clear yellow
Odour:	Aromatic solvent odour
Melting point:/Boiling point:	Approx. 184 °C
Density:	1.06 at 20 °C
Vapour pressure:	Not known
Viscosity:	Not known
Solubility in water:	6 x 10 ⁻³ mg/L (20 °C) (permethrin)
pH:	Not available
Flash point:	72 °C
Auto-ignition temperature:	> 450 °C (solvent)
Flammability (explosive) limits:	0.6 - 7.0 % (solvent)
Partition coefficient (n-octanol/water):	logP = 6.1 (20 °C) (permethrin)

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10. Stability and Reactivity	
Stability of the substance:	Stable under standard conditions.
Conditions to avoid:	Extreme temperatures and direct sunlight.
Materials to avoid:	Incompatible with strong oxidising agents
Hazardous reactions:	None when stored and handled according to prescribed instructions.
Hazardous polymerization:	Not available.
11. Toxicological Information	
Acute oral toxicity:	LD ₅₀ rat: 1479 mg/kg (permethrin 25:75 in corn oil)
Acute dermal toxicity:	LD ₅₀ rabbit: >2000 mg/kg (permethrin)
Acute inhalation toxicity:	LC ₅₀ (3h) rat: 685 mg/m ³ (permethrin)
Inhalation:	Avoid breathing vapour / spray / fumes. Inhalation of spray may produce respiratory irritation and irritation.
Skin contact:	Mild irritant and drying to the skin. Prolonged skin contact may cause skin sensitisation. The material should not be allowed to come into contact with the skin.
Eye contact:	Irritating. The material should not be allowed to contact the eyes.
Ingestion:	Harmful if swallowed. Repeated oral exposure may cause organ damage.
Other:	Permethrin is not mutagenic, teratogenic or carcinogenic. In animal tests permethrin was a moderate skin sensitiser. At high doses, the solvent caused reversible damage to the liver and kidney of male rats. These effects are not relevant to humans at occupational levels of exposure.
12. Ecological Information	
Acute fish toxicity:	LC ₅₀ : (96 h) 2.5 µg/L rainbow trout (permethrin)
Bird toxicity:	LD ₅₀ : >9800 mg/kg mallard duck (permethrin 40:60)
Bee toxicity:	LD ₅₀ : (oral) (24 h) 0.098 µg/bee; (topical) 0.029 µg/bee
Other:	None

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13. Disposal Considerations	
Product disposal:	Dispose of this product only by using according to the label, or at an approved landfill, or other approved facility. Avoid contamination of any water supply with product or empty container.
Container disposal:	Triple rinse the empty container adding rinsings to the spray tank. Burn in an appropriate incinerator, if circumstances such as wind direction permit. Otherwise crush or puncture and bury in a suitable landfill, or if appropriate, recycle. Do not use container for any other purpose.
14. Transportation Information	
Rail/Road (RID/ADR)	UN No.: 3082 Class: 9 Packing Group: III Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S (PERMETHRIN SOLUTION)
Sea (IMDG-Code)	UN No.: 3082 Class: 9 Packing Group: III Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S (PERMETHRIN SOLUTION) Marine Pollutant: Marine Pollutant for Marine Transport
Air (ICAO/IATA)	UN No.: 3082 Class: 9 Packing Group: III Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S (PERMETHRIN SOLUTION)
15. Regulatory Information	
HSNO Approval Number:	HSR000304
HSNO Controls (inc. Tracking):	Records of use, as described in the current version of NZS 8409 Management of Agrichemicals must be kept if more than 3 L is applied or discharged within 24 hours in a place where the substance is likely to enter air or water and leave the place. See www.ermanz.govt.nz for full listing of controls.

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Approved Handlers required:	This product must be under the control of an approved handler when applied in a wide dispersive manner or used by a commercial contractor.
ACVM Registration:	Not applicable.
ACVM Controls:	Not applicable.
16. Other Information	
3.1D Low hazard flammable liquid. 6.1D May be harmful if swallowed, inhaled or absorbed through skin. 6.3B Mild skin irritant. 6.4A May irritate the eyes. 6.5A May cause respiratory sensitisation. 6.5B May cause sensitisation from prolonged skin contact. 6.9B May cause organ damage from repeated oral exposure 9.1A Very toxic to aquatic life. 9.3B Toxic to terrestrial vertebrates. 9.4A Very toxic to terrestrial invertebrates.	
R65 – Harmful: May cause lung damage if swallowed.	

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The data given here is based on current knowledge and experience. The purpose of this Safety Data Sheet is to describe products in terms of their safety requirements. The above details do not imply any guarantee concerning composition, properties or performance of the product.