

**ECOTOXIC**  
**WARNING – COMBUSTIBLE LIQUID**  
**HARMFUL- KEEP OUT OF REACH OF CHILDREN**  
**READ LABEL BEFORE USE**  
**PERMETHOR® SHIELD**  
**LIQUID INSECTICIDE**

**ACTIVE INGREDIENT: 500 g/L PERMETHRIN**  
**SOLVENT: 361 g/L HYDROCARBON LIQUID**  
**IN THE FORM OF AN EMULSIFIABLE CONCENTRATE**

**For control of a range of insect pests in various household and industrial situations as per the Directions for Use table.**

ENSYSTEX® NEW ZEALAND LTD  
 17C CORINTHIAN DRIVE, ALBANY 0752 AUCKLAND  
 www.Ensystex.co.nz  
 Phone: 0800 ENSYSTEX (0800 367 978)

APPROVED PURSUANT TO THE HSNO ACT 1996, APPROVAL CODE: HSR101476  
 See www.epa.govt.nz for approval control.  
 NZFSA approval type B (All animal product except dairy)

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**ENSYSTEX®**  
 LEADING INNOVATION IN PEST MANAGEMENT

**ENSYSTEX®**  
**NEW ZEALAND**  
**LTD**

[www.Ensystex.com.nz](http://www.Ensystex.com.nz)

**GENERAL INSTRUCTIONS**

**Remedial Treatment of Timber**

For protection, in situ timbers may be treated by drilling or injection with PERMETHOR SHIELD according to the DIRECTIONS FOR USE. DO NOT use diesel distillate. If the opposite surface is covered, stained or varnished, it should be fully cured before PERMETHOR SHIELD is applied, especially if the timbers to be treated are old and cracks, holes or gaps are present. Test a small area to ensure that solvent penetration through timbers will not adversely affect the timber finish or floor coverings.

**Aircraft Disinsection**

Use with water only. Treatment should be carried out in accordance with the relevant New Zealand government quarantine requirements.

**PRECAUTIONS**

Avoid contact with food, food utensils, or places where food is prepared or stored. Before use, remove or cover all exposed foodstuffs. Cover all dishes and utensils, and places where food is prepared or stored.

**PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT:**

Dangerous to fish and other aquatic organisms. DO NOT contaminate streams, rivers or watercourses with the chemical or used containers.

**STORAGE AND DISPOSAL:** Store in the closed, original container, in a cool well-ventilated area out of the reach of children. Do not store for prolonged periods in direct sunlight. Triple rinse containers before disposal. Add rinsings to spray tank. DO NOT dispose of undiluted chemicals on site. If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, break, crush or puncture and deliver empty packaging to an approved waste management facility. If an approved waste management facility is not available bury the empty packaging 500 mm below the surface in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots in compliance with relevant government regulations. Do not burn empty containers or product. DO NOT reuse container for any other purpose. Collect any spillage.

**SAFETY DIRECTIONS:** Product is harmful if swallowed. Will irritate the eyes, nose, throat and skin. Avoid contact with eyes and skin. Do not inhale spray and mist. When mixing and applying wear protective clothing such as cotton overalls buttoned to the neck and wrist (or equivalent clothing), elbow-length PVC gloves and face shield or goggles. The use of gloves is recommended when PERMETHOR SHIELD Liquid Insecticide is applied using the dipping method. Remove protective clothing, wash hands and exposed skin after use and before eating, drinking and after work. Wash gloves and protective clothing daily. Do not eat, drink or smoke when using this product.

**FIRST AID:**

If poisoning occurs, contact a doctor or National Poisons Centre 0800 POISON (0800 764 766). If swallowed, immediately call a doctor/ Poison centre, rinse mouth and do NOT induce vomiting. If on skin, wash with plenty of water. If inhaled, remove person to fresh air. If skin irritation occurs get medical advice.

**SAFETY DATA SHEET**

Additional information is listed on the Safety Data Sheet which is available from Ensystex on our web site at [www.Ensystex.co.nz](http://www.Ensystex.co.nz)

Combustible liquid.

**NOTICE**

Ensystex warrants that this product conforms to its Ensystex warrants that this product conforms to its chemical description and is reasonably fit for the purposes stated on the label when used in accordance with Directions for Use under normal conditions of use. No warranty of merchantability or fitness for a particular purpose, express or implied, extends to the use of the product contrary to label instructions or under abnormal conditions.

**HSNO Classifications: 3.1D, 6.1D, 6.1E, 6.3B, 6.9B, 9.1A, 9.3B, 9.4A**

**WARNING** – Combustible liquid – Keep away from sources of ignition, flames and hot surfaces. No Smoking.  
 PERMETHOR SHIELD Liquid Insecticide must be under the personal control of an approved handler when the substance is –  
 c) Applied in a wide dispersive manner, or  
 d) Used by a commercial contractor.

**TOXICITY**  
 Harmful – Harmful if swallowed, inhaled or absorbed through the skin. Causes mild skin irritation. Avoid skin contact. Facial skin contact may cause temporary numbness. May be fatal if swallowed and enters airways. May cause damage to organs through prolonged or repeated exposure.

**ECOTOXICITY**  
 Very toxic to aquatic life with long lasting effects. Avoid contamination of any water supply with product or empty container. Toxic to terrestrial vertebrates. Very toxic to terrestrial invertebrates.

**PRECAUTIONS**  
 Keep locked away and out of reach of children. Avoid contact with eyes and skin. Do not inhale spray or mist. When mixing and applying wear protective clothing such as cotton overalls buttoned to the neck and wrist (or equivalent clothing), elbow-length PVC gloves and face shield or goggles. The use of gloves is recommended when PERMETHOR SHIELD Liquid Insecticide is applied using the dipping method. Remove protective clothing, wash hands and exposed skin after use and before eating, drinking and after work. Wash gloves and protective clothing daily. Do not eat, drink or smoke when using this product.

**DIRECTIONS FOR USE**

PERMETHOR SHIELD Liquid Insecticide must only be used as a spot treatment, this includes spot spraying, dipping (for treatment of fabric, nets and clothing) and wood drilling or injection (when used as a termiticide).

SITUATION	INSECTS	RATE	CRITICAL COMMENTS
Household and industrial situations		50 mL in 10 L of water	Apply as a spot treatment only. All dilutions should be applied to the point of run off, using 5 L of prepared spray per 100 to 150 m <sup>2</sup> , depending on the porosity of the sprayed material. Porous surfaces such as brick, cement, ceramic (unglazed), etc, absorb the spray, and hence more spray is needed to deliver the required surface deposit.
	Cockroaches		Conduct a thorough inspection and apply to known and potential cockroach harbourages. A barrier application around areas where cockroach infestations may be originating is also suggested. Where application of a spray is not suitable it is recommended that a suitably registered cockroach gel bait be applied as per the registered label on that product.
	Fleas		Clean and vacuum infested areas and dispose of dust collected in the garbage in a sealed plastic bag. Lightly spray infested areas concentrating on areas under furniture etc. Treat pets with a suitably registered flea control product.
	Flies and mosquitoes		Spray surfaces where flies and mosquitoes are known to come to rest. Flies – include external surfaces that are exposed to the morning sun. Mosquitoes – spray walls, awnings, fences and vegetated areas in proximity to buildings.  Note: The perception of the level of control of flying insects achieved within any given area treated with a residual surface spray will be affected by the extent of in-migration of individuals from external (un-treated) areas. A residual surface spray will only control those insects that alight on the treated surfaces and therefore complete elimination of flying insects from the treated area should not necessarily always be expected.
	Web-spinning spiders		Spray spiders, their webbing and areas where spiders may hide directly. It is recommended that webbing is left in place for a few days after application to optimise efficacy.
	Non web-spinning spiders		Spot spray areas where spiders are known to occur.
	Silverfish		Direct spray to areas of potential infestation e.g. under skirting boards and furniture where dark conditions may favour silverfish populations.
	Ants		Where possible locate the nest and spray directly into nest entrances. Penetration of insecticide can be assisted by pre-wetting sandy and porous soils with water. A thorough soaking treatment with insecticide mixture is required to destroy the nest. If nest cannot be located then spray infested areas.
Carpets, rugs and fabrics	Carpet beetle ( <i>Anthrenus flavipes</i> ) Variegated carpet beetle ( <i>Anthrenus verbasci</i> ) Webbing clothes moth ( <i>Tineola bisselliella</i> ) Case-making clothes moths ( <i>Tinea pellionella</i> )	50 mL in 10 L of water	Apply sufficient diluted spray to penetrate carpet pile or fabric (50 mL spray mix per m <sup>2</sup> ). Apply as a surface treatment only. It is recommended that application to a small, non-conspicuous, test area of the carpet, rug or fabric be made first to determine that staining and damage will not occur.
Remedial treatment of timber in buildings	Drywood termites ( <i>Cryptotermes primus</i> , <i>C. brevis</i> , <i>C. domesticus</i> )	40 mL in 10 L of non-staining oil or kerosene	Drill damaged areas and inject solution until timber is unable to absorb more liquid. Treat all infested areas (as indicated by expulsion of frass) for maximum effect. A single application may be sufficient. Continued expulsion of frass may be due to movement of timber.
	Auger beetles and powder post beetles (Family Bostrichidae); Pinhole borers (Family Curculionidae); Furniture Beetles (Family Anobiidae).	20 mL in 10 L non-staining light oil or deodorised kerosene or water	Do not use diesel in or under living areas as odours and staining may occur. See GENERAL INSTRUCTIONS.
Aircraft	Cockroaches, moths, beetles, mosquitoes	Initial: 200 mL in 5 L of water Routine (monthly): 100 mL in 5 L of water	Apply as spot treatment to carpets and other fabrics at 25 mL spray mix per m <sup>2</sup> and to other surfaces at 10 mL spray mix per m <sup>2</sup> .
Repellent treatment of fabric (excluding clothing) and mosquito nets. (i) Nylon (ii) Cotton and cotton blends (iii) Canvas horse rugs	Mosquitoes, biting flies	(i) 15 mL in 500 mL water. (ii) 15 mL in 2 L water (iii) 15 mL in 500 mL water	The dilution rate depends on the water uptake rate of the material. Dip thoroughly for 2 minutes. Drain; then dry, preferably laid flat on a non-absorbent surface. Nets should not be hung up to drain.  For horse rugs spray until run-off and allow to dry before putting on horse.
		12 mL/1 L water	Dip treat for 2 minutes. Pre-dry on a horizontal non-absorbent surface before hanging up to dry, to prevent excessive dripping. Note for Defence Force Personnel: Use in accordance with the Australian Defence Force Publication ADFP 705 Pesticides Manual.