



Material Safety Data Sheet

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: BLITZEM! INSECT KILLER CONCENTRATE

Recommended Use: Insecticide concentrate for control of ants, spiders, cockroaches and various other insects in and around the home.

Supplier: Yates, a Division of Orica Australia Pty Ltd

ABN: 004 117 828

Street Address: 1 Gow Street,
Padstow, NSW 2211
Australia

Telephone Number: +61 2 9781 8800

Facsimile: +61 2 9794 9700

Emergency Telephone: 1 800 033 111 (ALL HOURS)

2. HAZARDS IDENTIFICATION

Based on available information, not classified as hazardous according to criteria of ASCC; NON-HAZARDOUS SUBSTANCE.

Classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for Transport by Road and Rail; DANGEROUS GOODS.

Poisons Schedule: S5 Caution.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components / CAS Number	Proportion	Risk Phrases
Ethyl alcohol 64-17-5	>60%	R11
Permethrin 52645-53-1	10%	R22, R50
Ingredients determined not to be hazardous	to 100%	-

4. FIRST AID MEASURES

For advice, contact a Poisons Information Centre (Phone eg. Australia 131 126; New Zealand 0 800 764766) or a doctor.

Inhalation: Remove victim from area of exposure - avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. Seek medical advice if effects persist.

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- Skin Contact:** If skin contact occurs, remove contaminated clothing and wash skin with running water. If irritation occurs seek medical advice.
- Eye Contact:** If in eyes, wash out immediately with water. In all cases of eye contamination it is a sensible precaution to seek medical advice.
- Ingestion:** Rinse mouth with water. If swallowed, do NOT induce vomiting. Give a glass of water. Seek medical advice.
- Medical attention and special treatment:** Treat symptomatically.

5. FIRE FIGHTING MEASURES

- Hazards from combustion products:** Highly flammable liquid. On burning will emit toxic fumes, including those of oxides of carbon and hydrogen chloride .
- Precautions for fire fighters and special protective equipment:** Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to vapour or products of combustion.
- Suitable Extinguishing Media:** Alcohol resistant foam is the preferred firefighting medium but, if it is not available, fine water spray or water fog can be used.
- Hazchem Code:** - 2YE

6. ACCIDENTAL RELEASE MEASURES

- Emergency procedures:** If contamination of sewers or waterways has occurred advise local emergency services.
- Methods and materials for containment and clean up:** SMALL SPILLS: Wipe up with absorbent (clean rag or paper towels). Allow absorbent to dry before disposing with normal household garbage.
LARGE SPILLS: Shut off all possible sources of ignition. Wear protective equipment to prevent skin and eye contact and breathing in vapours. Contain - prevent run off into drains and waterways. Use absorbent (soil, sand or other inert material). Collect and seal in properly labelled containers or drums for disposal.

7. HANDLING AND STORAGE

This material is a Scheduled Poison S5 and must be stored, maintained and used in accordance with the relevant regulations.

- Conditions for safe storage:** Store in a cool, dry, well ventilated place and out of direct sunlight. Store away from sources of heat or ignition. Store away from foodstuffs. Store away from incompatible materials described in Section 10. Keep containers closed when not in use - check

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regularly for leaks.

Precautions for safe handling: Keep out of reach of children. Avoid skin and eye contact and breathing in vapour. May form flammable vapour mixtures with air. All potential sources of ignition (open flames, pilot lights, furnaces, spark producing switches and electrical equipment etc) must be eliminated both in and near the work area. Do NOT smoke. Vapour may travel a considerable distance to source of ignition and flash back.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits:

No value assigned for this specific material by the National Occupational Health and Safety Commission. However, Exposure Standard(s) for constituent(s):

Ethyl alcohol: 8hr TWA = 1880 mg/m³ (1000 ppm)

Permethrin*: 8hr TWA = 5 mg/m³

As published by the National Occupational Health and Safety Commission.

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

These Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as is workable. These exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

Engineering controls:

Natural ventilation should be adequate under normal use conditions. Keep containers closed when not in use.

Personal Protective Equipment:

Avoid contact with eyes and skin. Do NOT inhale spray mist. After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Liquid
Colour:	Clear
Odour:	Alcohol
Solubility:	Emulsifiable with water. in water.
Specific Gravity:	0.837
Relative Vapour Density (air=1):	>1
Vapour Pressure (20 °C):	5.9 kPa (Ethanol)
Flash Point (°C):	10 (PMCC)

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Flammability Limits (%): 3.3-19 (Ethanol)
Autoignition Temperature (°C): N Av
% Volatile by Weight: N Av
Boiling Point/Range (°C): 76.5
Evaporation Rate: N Av

10. STABILITY AND REACTIVITY

Chemical stability: Stable under normal conditions of use.

Conditions to avoid: Avoid contact with foodstuffs. Avoid exposure to heat, sources of ignition, and open flame.

Incompatible materials: Incompatible with oxidising agents.

Hazardous decomposition products: Hydrogen chloride. Oxides of carbon.

Hazardous reactions: None known.

11. TOXICOLOGICAL INFORMATION

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

Ingestion: Swallowing can result in nausea, vomiting and central nervous system depression. If the victim is showing signs of central system depression (like those of drunkenness) there is greater likelihood of the patient breathing in vomit and causing damage to the lungs.

Eye contact: May be an eye irritant.

Skin contact: Contact with skin may result in irritation. May cause skin sensitisation in sensitive individuals. Repeated or prolonged skin contact may lead to allergic contact dermatitis.

Inhalation: Material may be irritant to the mucous membranes of the respiratory tract (airways). Breathing in vapour can result in headaches, dizziness, drowsiness, and possible nausea. Breathing in high concentrations can produce central nervous system depression, which can lead to loss of co-ordination, impaired judgement and if exposure is prolonged, unconsciousness.

Long Term Effects:
No information available for the product.

Toxicological Data:
No LD50 data available for the product. For the constituent PERMETHRIN:

Oral LD50 (rat): 1479 mg/kg

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Dermal LD50 (rabbit): >2000 mg/kg
Inhalation LC50 (rat): >685 mg/m³/3hr
SKIN: Mild irritant (rat). Moderate skin sensitiser.
EYES: Mild irritant (rabbit).
Short term tests have shown that permethrin is unlikely to be genotoxic.
Animal studies have shown that repeated or prolonged doses produce no significant toxic effects.
ADI (Acceptable Daily Intake) for humans is 0.05 mg/kg bw/day.

12. ECOLOGICAL INFORMATION

Ecotoxicity Avoid contaminating waterways.
For PERMETHRIN:

Aquatic toxicity:

Very toxic to aquatic organisms. Risk of bioaccumulation in an aquatic species is high.

Log Octanol/Water Partition Coefficient: 6.1
48hr LC50 (rainbow trout): 5.4 ug/L.
48hr LC50 (bluegill sunfish): 1.8 ug/L.
48hr LC50 (Daphnia magna): 0.6 ug/L.
96hr LC50 (rainbow trout): 2.5 ug/L.

Terrestrial toxicity:

Toxic to bees.
Oral LD50 (mallard duck): >5,000 mg/kg (females).
Oral LD50 (ug/bee): 0.098 ug/bee.
Contact LD50 (ug/bee): 0.029 ug/bee.

13. DISPOSAL CONSIDERATIONS

Disposal methods: Refer to Waste Management Authority. Dispose of material through a licensed waste contractor. Advise flammable nature.

14. TRANSPORT INFORMATION

Road and Rail Transport

Classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for Transport by Road and Rail; DANGEROUS GOODS.

UN No: 1170

Class-primary 3 Flammable Liquid
Packing Group: II
Proper Shipping Name: ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)
Hazchem Code: · 2YE

Marine Transport

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

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transport by sea; DANGEROUS GOODS.

UN No: 1170
Class-primary: 3 Flammable Liquid
Packing Group: II
Proper Shipping Name: ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)

Air Transport

Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air; DANGEROUS GOODS.

UN No: 1170
Class-primary: 3 Flammable Liquid
Packing Group: II
Proper Shipping Name: ETHANOL SOLUTION

15. REGULATORY INFORMATION

Classification: Based on available information, not classified as hazardous according to criteria of ASCC; NON-HAZARDOUS SUBSTANCE.
Poisons Schedule: S5 Caution.

16. OTHER INFORMATION

(1) In: 'The Pesticide Manual'. 13th Edition. Ed. CDS Tomlin. British Crop Protection Society, 2003.

Reason(s) for Issue:
First Issue Primary MSDS

This material safety data sheet has been prepared by SH&E Shared Services, Orica. This MSDS summarises to our best knowledge at the date of issue, the chemical health and safety hazards of the material and general guidance on how to safely handle the material in the workplace. Since Orica Limited cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, assess and control the risks arising from its use of the material. If clarification or further information is needed, the user should contact their Orica representative or Orica Limited at the contact details on page 1. Orica Limited's responsibility for the material as sold is subject to the terms and conditions of sale, a copy of which is available upon request.

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