

**CISLIN<sup>®</sup> RESIDUAL  
INSECTICIDE**Date of Issue: 15<sup>th</sup> March, 2006**1. Identification of the Substance/Mixture and Supplier.**

Product name:	Cislin <sup>®</sup> Residual Insecticide
Recommended Use:	A liquid insecticide concentrate for use as a general purpose pest control spray.
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:	<b>HSNO Class*</b> 6.5B, 6.9B, 9.1A, 9.4A This product may cause sensitisation from prolonged skin contact. This product may cause organ damage from repeated oral exposure Very toxic to aquatic life. Very toxic to terrestrial invertebrates.
Risk & Safety Phrases:	Not applicable.

**3. Composition/Information on Ingredients.**

Common name:	Deltamethrin
Synonyms:	None

Chemical Identity of  
Ingredients:**Mixture:**

Ingredient	CAS No.	Content (g/L)
Deltamethrin	52918-63-5	10
Propylene glycol	57-55-6	60
Other ingredients (non-hazardous)		940

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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:	Ensure eye wash and safety shower are available when handling this product.
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, abdominal pain, and salivation. Potential Central Nervous System effects are dizziness, blurred vision, headache, listlessness, anorexia, somnolence/coma, seizures/convulsions, tremor, ataxia, and muscle fasciculations.
Eye:	Rinse immediately with plenty of water for at least 15 minutes, holding eye open. Seek 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:	If inhaled, remove to fresh air and keep at rest. Loosen clothes. Obtain medical advice if at all worried. Restore and/or support breathing as required. In extreme cases of exposure; if breathing stops or shows signs of failing, start artificial respiration.
Ingestion:	Wash out mouth with water. Do not induce vomiting. Keep patient at rest and seek medical advice as above. Do not apply mouth to mouth resuscitation if the material has been ingested.
Treatment:	Treat large intakes with gastric lavage, and charcoal administration. Use endotracheal intubation, and artificial respiration (if necessary). As no antidote is known, treatment is symptomatic. Monitor respiratory and cardiac functions. Observe electrocardiograph, and check for pulmonary oedema in event of inhalation. Anticonvulsant therapy with diazepam i.v. Contraindication – adrenergic compounds (except CRP), atropine. DO NOT confuse with anticholinesterase compounds. Skin contacted by deltamethrin must be carefully cleaned with cleansing milk. Symptoms can be partially alleviated by the application of a vitamin E or moisturising cream or anaesthetic ointment. For eyes, instil local anaesthetic drops e.g. 1%

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	amethocaine hydrochloride eye drops. Give analgesics as necessary.
<b>5. Fire-Fighting Measures.</b>	
Decomposition:	In case of fire, the evolution of dangerous gases is possible.
Extinguishing media:	Water spray, carbon dioxide, foam, dry chemical. Do not use a water jet from a fire hose.
Recommended Protective clothing:	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.
<b>6. Accidental Release Measures.</b>	
Personal Precautions:	<b>Emergency Procedures:</b> Avoid contact with spilled material or contaminated surfaces. When dealing with the spillage do not eat, drink or smoke. Wear suitable personal protection during removal of spillages. This means wearing eye protection, chemically resistant gloves, boots and overalls.
Environmental Precautions:	Prevent spillage from entering drains, sewers or watercourses. If contamination of drains, streams, watercourses, etc. is unavoidable, warn the local water authority.
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"> <li>• For quantities up to 50L of product bury in a secure approved landfill site.</li> <li>• For quantities greater than 50L seek advice from the manufacturer (use emergency contact number) before attempting disposal. Contain in a secure location until disposal method is established.</li> </ul> Decontaminate the spill area with detergent and water and rinse with the smallest volume of water practicable.

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Handling Practices:	Use only in a well-ventilated area. Avoid contact with skin and eyes and inhalation of concentrate or spray mist.
Conditions for Safe Storage and Store Sire 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:	Use in well-ventilated areas.
Respiratory protection:	Where insufficient ventilation, use suitable respiratory protection.
Eye protection:	Chemical goggles/face protection.
Other protective equipment:	Wear suitable protective clothing (e.g. cotton overalls) and gloves.
Hygiene measures:	Avoid contact with eyes and skin. Do not inhale vapour and spray mist. Do not eat, drink or smoke while using. After use remove protective clothing and wash hands, arms, and face thoroughly with soap and water. After each day's use wash gloves, respirator and contaminated clothing. Store work clothes and street clothes separately.

**9. Physical and Chemical Properties**

Form:	Suspension concentrate
Odour:	Practically none
Colour:	White
Melting point:	100 – 102 °C (deltamethrin)
Vapour pressure:	As water
Density:	1.01 at 20 °C
Viscosity:	Not known
Solubility in water:	< 0.2 µg/L (25 °C) - deltamethrin
pH:	< 6.0 (undiluted)
Flash point:	Not applicable
Partition coefficient (n-octanol/water)	LogP = 4.6 (25 °C) – deltamethrin

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Stability of the Substance:	Stable under standard conditions.
Conditions to Avoid:	Not applicable
Materials to Avoid:	Avoid oxidising agents, strong acids and alkalis.
Hazardous Reactions:	No hazardous reactions
Hazardous polymerization	Not applicable

**11. Toxicological Information**

Acute oral toxicity:	LD <sub>50</sub> : > 10,000 mg/kg (product)
Acute dermal toxicity:	LD <sub>50</sub> : > 10,000 mg/kg (product)
Acute inhalation toxicity:	LC <sub>50</sub> : 2.2 mg/L (deltamethrin)
Inhalation:	Inhalation of the product is unlikely to occur because of its low volatility. However, inhalation of spray may cause transient irritation of mucous membranes (nose, throat and respiratory tract) for up to 24 hours.
Skin contact:	Irritating. Contact with the skin, especially the face, may result in initial stinging or burning sensations followed by numbing which may persist for a few hours. (Although skin irritation tests in animals show deltamethrin to be non-irritating, experience has shown it to cause these symptoms on human skin.)
Eye contact:	Irritant.
Ingestion:	Product is harmful if swallowed. May cause organ damage from repeated oral exposure.
Other information:	May cause sensitisation by skin contact.

**12. Ecological Information**

	Deltamethrin is highly toxic to fish, aquatic organisms and bees in laboratory studies, but considered less toxic under natural conditions.
Acute fish toxicity:	Deltamethrin: LC <sub>50</sub> (96 h): 1.4 µg/L bluegill sunfish; 0.91 mg/L rainbow trout.
Bird toxicity:	Deltamethrin: LD <sub>50</sub> : > 4640 mg/kg duck
Algae toxicity:	EC <sub>50</sub> (96h) > 9.1 mg/L
Bee toxicity:	LD <sub>50</sub> (oral) 79 ng/bee; (contact) 51 ng/bee

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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)	Not classified
Sea (IMDG-Code)	Not classified
Air (ICAO/IATA)	Not classified

**15. Regulatory Information.**

HSNO Approval Number:	HSR000288
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 <a href="http://www.ermanz.govt.nz">www.ermanz.govt.nz</a> for full listing of controls.
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.

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**16. Other Information.**

- 6.5B This product may cause sensitisation from prolonged skin contact.
- 6.9B This product may cause organ damage from repeated oral exposure.
- 9.1A Very toxic to aquatic life.
- 9.4A Very toxic to terrestrial invertebrates.

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Replaces 28<sup>th</sup> February, 2006 edition.

Reason for update: Update of Hazard Classification and Regulatory Information.

<sup>®</sup> Registered trademark of Bayer.

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.