

**RESPONSAR BETA
RESIDUAL INSECTICIDE**

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1. Identification of the Substance/Mixture and Supplier.

Product name:	Responsar Beta Residual Insecticide
Recommended Use:	Insecticide spray for general pest control use
Company details:	Bayer New Zealand Limited,
Address	3 Argus Place, Glenfield, Auckland, New Zealand.
Telephone:	0800 227 013
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.
Required identification :	HSNO Class 6.1C, 6.3B, 6.4A, 6.8C, 6.9A, 9.1A, 9.3C, 9.4A
Details	Poisonous if absorbed by skin contact, inhaled, or swallowed. Causes mild skin irritation Causes eye irritation May cause harm to breast-fed children Causes damage to organs thorough prolonged or repeated exposure Very toxic to aquatic life and terrestrial invertebrates Harmful to terrestrial vertebrates

3. Composition/Information on Ingredients.

Pure substance:	Betacyfluthrin
Synonyms:	None

Mixture	Ingredient	CAS No.	Content (g/L)
	Betacyfluthrin	68359-37-5]	125
	Sulphuric acid	7664-93-9	0.25
	Other ingredients	non-hazardous	928

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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:	Provide washing facilities in the workplace.
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 hyper reaction 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:	Hold eye open and flood with water for at least 15 minutes and see a doctor.
Skin:	Remove any contaminated clothing and wash skin area thoroughly with soap and water.
Inhaled:	If inhaled, remove to fresh air and keep at rest. If breathing stops or shows signs of failing, start artificial respiration. Obtain medical advice.
Ingestion:	Wash out mouth with water. DO NOT induce vomiting. Give a glass of water. Do not give anything by mouth if the patient is semi-conscious or unconscious. Keep patient at rest and seek medical advice. Do not apply mouth-to-mouth resuscitation if the material has been ingested.
Notes for medical personnel:	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 betacyfluthrin 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% amethocaine hydrochloride eye drops. Give analgesics as necessary.

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5. Fire-Fighting Measures.

Type of hazard	In the event of fire, hydrogen chloride (HCl), hydrogen cyanide (HCN), hydrogen fluoride (HF), carbon monoxide (CO) and nitrous gases (NOx) may be released.
Extinguishing media:	Sprayed water jet, foam, extinguishing powder, CO ₂ , sand.
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.

6. Accidental Release Measures.

Personal Precautions:	<p>Emergency Procedures: Ensure suitable personal protection during removal of spillages. This means wearing eye protection, chemically resistant gloves, boots and overalls.</p>
Environmental Precautions:	Washings must be prevented from entering surface water drains or waterways.
Procedure for spill:	<p>Keep all bystanders away. Wear goggles, half face-piece respirator with combined dust and vapour cartridge, full length clothing and PVC gloves.</p> <p>Contaminated material must be disposed of in accordance with all local authority requirements.</p> <ul style="list-style-type: none"> For quantities up to 50 L of product bury in a secure approved landfill site. 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. <p>Decontaminate the spill area with detergent and water and rinse with the smallest volume of water practicable.</p>

7. Handling and Storage.

Handling Practices:	Keep out of reach of children. Avoid inhaling aerosols and vapours. Avoid contact with eyes and skin.
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	
Workplace Exposure Guidelines	
Workplace exposure standards	No specific exposure limits are set for the use of this product when used according to the label.
Engineering Controls	
Exposure control measures	No engineering controls are required in the normal use of this product.
Ventilation Specification	Use in well-ventilated areas.
Personal Protective Equipment	
Detail specification for equipment	When preparing the spray, wear cotton overalls buttoned to the neck and wrist, a washable hat, elbow length PVC gloves and half-face piece respirator. When using the prepared spray wear cotton overalls buttoned to the neck and wrist, a washable hat, and rubber gloves.
General hygiene	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 if rubber wash with detergent and warm water, and contaminated clothing. Store work clothes and street clothes separately.
9. Physical and Chemical Properties	
Appearance: Formulation: Odour: Colour: Boiling point: Vapour pressure: Density: Viscosity: Solubility in water: pH: Flash point: Partition coefficient (n-octanol/water)	Beige liquid Suspension concentrate Slight characteristic smell Approx. 100 °C Approx 1.06 kg/litre at 20 °C 1.4 x 10 ⁻⁵ mPa (betacyfluthrin) 600-900 mPa.s DIN 53211 Miscible 3.0 – 7.0 (undiluted) Not relevant Not relevant Not relevant

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10. Stability and Reactivity

Stability of the Substance:	Product is stable and not flammable.
Conditions to Avoid:	Avoid temperatures below minus 10 °C and above 40 °C.
Materials to Avoid:	Not available.
Hazardous Reactions:	Not available.
Hazardous polymerization	Hazardous polymerisation is unlikely to occur.

11. Toxicological Information

Acute oral toxicity:	LD ₅₀ rat: 776 mg/kg (females), 941 mg/kg (males)
Acute dermal toxicity:	LD ₅₀ rat: > 5000 mg/kg
Acute inhalation toxicity:	LC ₅₀ rat: >1761 mg/cu metre
Inhalation:	May cause nasal irritation.
Skin contact:	Will irritate skin.
Eye contact:	Will irritate eyes.
Ingestion:	Harmful if swallowed. Repeated oral exposure may cause organ and reproductive/development damage.
Other information:	The effects of chronic human exposure to this chemical have not been determined, however betacyfluthrin has been shown to be non-carcinogenic, non-mutagenic, and non-teratogenic in laboratory species.

12. Ecological Information

Acute fish toxicity:	LC ₅₀ (96h) 89 mg/L rainbow trout; 280 ng/L bluegill sunfish (betacyfluthrin)
Toxicity for daphnia:	EC ₅₀ (48 h) approx 0.002 mg/L EC ₅₀ (24 h) >0.002 mg/L
Toxicity for Algae:	EC ₅₀ (increase in the biomass) >0.01 mg/L (72, 96 h) EC ₅₀ (growth rate) >0.01 mg/L (72, 96 h)
Toxicity to Bees:	LD ₅₀ <0.1 µg/bee (betacyfluthrin)

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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 empty container if circumstances especially wind direction permit. Otherwise crush or puncture and bury in a suitable landfill. Do NOT re-use containers for any other purpose.

14. Transportation Information.

Rail/Road (RID/ADR)	Not applicable.		
Sea (IMDG-Code)	UN No.:	3352	
	Class:	6.1	
	Packing Group:	III	
	Shipping Name:	Pyrethroid pesticide, liquid, Toxic N.O.S. (betacyfluthrin solution)	
Air (ICAO/IATA)	Not applicable.		

15. Regulatory Information.

HSNO Approval Number:	HSR000275
HSNO Controls:	See www.ermanz.govt.nz for full details A person in charge of this substance must ensure that a written record is kept of each discharge of this substance if more than 200ml is applied or discharged within 24 hours in a place where: a) a member of the public may lawfully be present: or b) the substance is likely to enter air or water and leave the place.
NZFSA Approval:	Pending
ACVM Registration:	Pending
ACVM Controls:	Pending

16. Other Information.

Updated 17/09/09 with change to Transportation Information.

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SAFETY DATA SHEET

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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.

End of Safety Data Sheet