



# SAFETY DATA SHEET

## BALLISTIC EC INSECTICIDE

### Section 1: Identification of the Substance and Supplier

**Product name:** BALLISTIC 27.5 EC INSECTICIDE  
**Chemical name of active Ingredient(s):** Deltamethrin C<sub>22</sub>H<sub>19</sub>Br<sub>2</sub>NO<sub>3</sub>  
**Supplier:** ADAMA New Zealand Limited  
Level1/19 Elms Street, Wakatu Estate, Stoke, Nelson, New Zealand  
P.O.Box 1799, Nelson New Zealand.  
**Telephone** +64 3 543 8275 Fax: +64 3 543 8274  
**Emergency Telephone:** **0800 POISON (0800 764 766)**

### Section 2: Hazards Identification

**Hazard Classifications:** 3.1D, 6.1D, 6.3B, 6.9B, 9.1A, 9.3C, 9.4A

**Most important hazards:**

**Warning – Combustible liquid. Do not store or use near heat or naked flame.  
Will burn if ignited.**

**TOXICITY**

**Warning -**

**May be harmful if swallowed, inhaled or absorbed through the skin.**

**May cause skin irritation.**

**Facial skin contact may cause temporary facial numbness.**

**May cause organ damage from repeated oral exposure at high doses.**

**Avoid skin contact.**

**ECOTOXICITY**

**Very toxic to aquatic organisms.** Avoid contamination of any water supply with product or empty container.

**Harmful to terrestrial vertebrates**

**Very toxic to terrestrial invertebrates.**

**Toxic to bees – DO NOT** spray on any plants in flower while bees are foraging. Ballistic Insecticide is known to have a deterrent effect on foraging bees for a short period of time after spraying. Risk to bees is reduced by spraying in early morning and late evening while bees are not foraging.

### Section 3. Composition/information on Ingredients

Substance/preparation	Preparation				
<b>Information on hazardous ingredients *</b>					
Common name	CAS No.	%	EC Number	Symbol	R-Phrases
Deltamethrin (ISO)	52918-63-5	2.75%	258-256-6	T, N	R23/25 R50-53
Aromatic C-10 solvent	64742-94-5	ca 73%	265-198-5	Xn	R65
Alkylpolyglycoether	-----	ca 13%	-----	Xi	R41
Alkylaryl sulfonates	-----	ca 2%	-----	Xi	R36/38

- **Occupational Exposure Limit(s), if available, are listed in section 8**



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### Section 4: First-Aid Measures

<b>Eye contact:</b>	Redness, tears
<b>First-aid measures:</b>	Remove victim from area of exposure. Wash off remaining material with plenty of water.
<b>Inhalation:</b>	Remove victim to fresh air. Keep victim warm and at rest. If breathing is difficult: give oxygen. If not breathing, give artificial respiration. Get medical attention.
<b>Ingestion:</b>	<b>Do not induce vomiting.</b> Wash out mouth with plenty of water. Never give anything by mouth to an unconscious person. Get medical attention and show label where possible.
<b>Skin contact:</b>	Remove contaminated clothing. Wash away remainder with water and Soap. Followed by a warm water rinse. Obtain medical attention.
<b>Eye contact:</b>	Wash out with plenty of water with the eyelid held wide open for at least 15 minutes. Consult eye specialist immediately.
<b>Notes to a physician:</b>	No specific antidote known. Treat symptomatically and give support therapy. If ingested perform gastric lavage and administer activated charcoal.
<b>Protection of first-aiders:</b>	Use appropriate protection (see section 8).

### Section 5: Fire-Fighting Measures

<b>Extinguishing media</b>	
<b>Suitable:</b>	Not flammable – Combustible In case of fire use: water spray, water fog, foam.
<b>Special procedures:</b>	Move containers away from fire without risk. Dike fire control water for later disposal, cool exposed containers with water spray.
<b>Hazardous thermal (de)composition products:</b>	Thermal decomposition generates: carbon monoxide, carbon dioxide, nitrogen oxides, bromides, hydrogen bromide.
<b>Protection of fire-fighters:</b>	Wear proper protective equipment. Self-contained breathing apparatus, rubber boots and thick rubber gloves.

### Section 6: Accidental Release Measures

<b>Personal precautions:</b>	Wear suitable protective clothing. (see section 8). During cleaning activity, shut off ignition sources.
<b>Environmental precautions:</b>	Do not discharge into drains or the environment. If this product has contaminated surface water, inform the appropriate authorities. Contaminated soil layers have to be dug out.
<b>Methods for cleaning up:</b>	Minor spillage: Absorb in sand or other inert material. Use appropriate container to avoid environmental contamination. Major spillage: Collect and contain as much free liquid as possible. Dike spills using absorbent or impervious materials such as sand or clay for later disposal.

### Section 7: Handling and Storage

<b>Handling:</b>	Do not breathe fumes. Avoid contact with skin and eyes. Keep out of reach of children. Do not eat, drink or smoke while using.
<b>Storage:</b>	Store in the original, unopened container in a cool, dry place, out of direct sunlight and away from stockfeed or foodstuffs. As a Class 9 Substance with Ecotoxicity Classifications, storage of Ballistic Insecticide must be carried out in such a manner as to prevent contamination of waterways. Stores containing more than 100L of Ballistic Insecticide require bunding and are subject to signage. Storage must generally be in accordance with The New Zealand Standard for the Management of Agrichemicals (NZS8409).
<b>Packaging materials:</b>	Multi-layer high density polyethylene extrusion blow containers. Drums with polyethylene liner.



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### Section 8: Exposure Controls/Personal Protection

<b>Engineering measures:</b>	Ventilation required.
<b>Hygiene measures:</b>	Facilities storing or utilizing this material should be equipped with an eyewash facility and safety shower. When handling do not eat, drink or smoke. Wash hands thoroughly after handling. Wash clothing separately before re-use.
<b>Occupational Exposure Limits:</b>	
<b>TVL</b>	Deltamethrin: Not established
<b>Respiratory Protection:</b>	During spraying wear suitable respiratory equipment.
<b>Skin and body Protection:</b>	Wear suitable protective clothing and chemical resistant boots.
<b>Hand Protection:</b>	Chemical resistant gloves.
<b>Eye Protection:</b>	Safety goggles or Chemical goggles.

### Section 9: Physical and Chemical Properties

<b>Physical state:</b>	Liquid
<b>Colour:</b>	Yellow (clear)
<b>Odour:</b>	characteristic
<b>Specific gravity:</b>	0.923
<b>Molecular weight:</b>	Deltamethrin: 505.22
<b>Melting point:</b>	Deltamethrin: 98-102 °C
<b>Solubility in water:</b>	Deltamethrin: 2 ppb
<b>Flash Point:</b>	65.5°C (closed cup)
<b>Lower Explosion limit:</b>	.08 Aromatic solvent (C-10)
<b>Upper Explosion limit:</b>	6.5 Aromatic solvent (C-10)

### Section 10: Stability and Reactivity

<b>Physico-chemical Stability:</b>	Stable under normal conditions
<b>Conditions to avoid:</b>	Protect from (sun) light open flame and sources of heat. Decomposes upon heating.
<b>Hazardous reactions:</b>	Avoid contact with: strong acids, strong bases.
<b>Hazardous Polymerization:</b>	Will not occur
<b>Hazardous decomposition Products:</b>	Thermal decomposition generates: carbon monoxide, carbon dioxide, nitrogen oxides, bromides, hydrogen bromide

### Section 11. Toxicological Information

<b>Acute toxicity - Oral:</b>	LD <sub>50</sub> (rat)= 430 mg/kg
<b>Acute toxicity - Dermal:</b>	LD <sub>50</sub> (rabbit) > 2,000 mg/kg
<b>Acute toxicity – Inhalation:</b>	LC <sub>50</sub> (rat)1.25mg/l/4h
<b>Skin irritation:</b>	Irritating to skin (rabbit).
<b>Eye irritation:</b>	Irritating to eyes (rabbit).
<b>Sensitization :</b>	Guinea-pig maximization test: Non Sensitizer
<b>Carcinogenicity:</b>	<b>Deltamethrin:</b> Not carcinogenic

### Section 12: Ecological Information

<b>Common name:</b>	Deltamethrin
<b>Ecological effects information</b>	
LD <sub>50</sub> Birds [mg/kg]	> 5000 (Mallard Duck)
Birds LC <sub>50</sub> [mg/kg]	10000 (Bobwhite quail)
LC <sub>50</sub> – Fish [mg/l]	0.001-0.01

### Section 13: Disposal Considerations

<b>Methods of disposal:</b>	Triple rinse empty container and add rinsate to spray tank. Do not burn empty containers that have not been rinsed. Burn in an appropriate incinerator, if
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circumstances such as wind direction permit. Otherwise crush or puncture and bury in a suitable landfill, or if appropriate, recycle

### Section 14: Transport Information

<b>UN Number</b>	3082
<b>Proper shipping name</b>	Environmentally hazardous substance, Liquid, N.O.S, Deltamethrin
<b>DG Class</b>	9
<b>Packing Group</b>	III
<b>Hazchem Code</b>	2X
<b>Marine Pollutant</b>	Yes
<b>IER Guide page</b>	47

**National transport regulations:** Do not carry this product on a passenger service vehicle.

**Segregation:** Check the land transport Rule Dangerous Goods 1999, Rule 45001 for additional information. Sea transport may require additional segregation. Refer: NZS5433; Sea Segregation, or the International Maritime Dangerous Goods Code for details.

### Section 15: Regulatory Information

#### New Zealand Regulatory Information:

**NZFSA Approval:** Registered pursuant to the ACVM Act 1997. No P7509  
See [www.nzfsa.govt.nz/acvm](http://www.nzfsa.govt.nz/acvm) for registration conditions.

Approved pursuant to the HSNO Act 1996, Approval No. HSR002440  
See [www.ermanz.govt.nz](http://www.ermanz.govt.nz) for registration conditions.

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



#### ECOTOXIC

**APPROVED HANDLER** - This product must be under the care of an approved handler when it is applied in a wide dispersive manner or used by a commercial contractor.

**RECORD KEEPING** - Records of use must be kept under certain circumstances – see NZS 8409 Management of Agrichemicals for details.

### Section 16: Other Information

Note: This product is a registered agricultural chemical and must be therefore be used in accordance with the container label directions. A comprehensive package of toxicological and environmental data for the active ingredients of this product has been submitted to the Government health and environment authorities and has been evaluated by expert toxicologists and environmental scientists.

The information contained in the Safety Data sheet is correct to the best of our knowledge at the date of issue. It is intended as a guide for the safe use, handling, disposal, storage and transportation and is not intended as a warranty or as a specification. The information relates only to the product specified and may not be suitable for combinations with other materials or in processes other than those specifically described herein.



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