

TALSTAR 100EC

Date of Issue: 17 March 2009

1. SUBSTANCE/PREPARATION AND COMPANY IDENTIFICATION

Chemical name of active ingredient(s): Bifenthrin

Recommended use: Insecticide

Supplier: Elliott Technologies Limited
PO Box 838
Pukekohe
Phone 0800 100 325

Emergency telephone number: 0800 Poison (0800 764 766) 24 Hours

2. HAZARDS IDENTIFICATION

Hazard Classification: 3.1D, 6.1D, 6.3A, 6.4A, 6.9A, 9.1A, 9.2B, 9.3B, 9.4A

Required identification Details: ECOTOXIC:
Very toxic to aquatic organisms.
Toxic to the soil environment.
Toxic to terrestrial vertebrates.
Very toxic to terrestrial invertebrates.

HARMFUL:
May be harmful if swallowed, inhaled or absorbed through the skin.
May cause skin and eye irritation.

TOXIC:
Presumed to cause damage to the nervous system from repeated oral exposure at high doses.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/preparation Information on hazardous ingredients

Common name	CAS No	%
Bifenthrin	82657-04-3	100 g/L
Liquid hydrocarbons	64742-94-5	30-60% w/w
Other ingredients deemed not to be hazardous	mixture	1-10% w/w

4. FIRST-AID MEASURES

Description of necessary first aid measures:

Effects and symptoms Harmful if swallowed or inhaled. Ingested in large doses by laboratory animals produced convulsions, tremors and bloody

First-aid measures

nasal discharge. This formulation also contains aromatic hydrocarbons which, if inhaled, may cause central nervous system depression, dizziness, disturbances in vision and respiratory irritation. Moderately irritating to the eyes and skin. Dermal sensitization may occur.

Inhalation:	Remove victim to fresh air. Apply artificial respiration if necessary.
Ingestion:	Call the National Poison Centre 0800 poison (0800 764 766). Have a person sip a glass of water if able to swallow. Do not induce vomiting.
Skin contact:	Take off contaminated clothing. Rinse skin immediately for 15-20 minutes. If skin surface damaged, apply a clean dressing and seek medical attention. If skin not damaged, wash with soap and water. If irritation persists see a doctor.
Eye contact:	If concentrate is splashed in the eyes, flush with running water for at least 15 minutes. Get medical attention if irritation persists.
Notes to a physician:	Bifenthrin the active ingredient in this product is a pyrethroid insecticide. The formulation also contains petroleum distillates that can cause severe pneumonitis or fatal pulmonary edema if aspired. Reversible skin sensations (paresthesia) may occur and ordinary skin salves have been found useful in reducing discomfort. Consideration should be given to gastric lavage with an endotracheal tube in place. Treatment is otherwise symptomatic and supportive.

5. FIRE-FIGHTING MEASURES

HAZCHEM Code:	3XE
Extinguishing media :	Soft stream water fog, foam, carbon dioxide or dry chemical
Hazardous thermal (de)composition products:	Carbon monoxide, carbon dioxide, hydrogen chloride, chlorine, fluorine and hydrogen fluoride.
Protection of fire-fighters:	Wear full protective clothing and self contained breathing apparatus. Do not breath smoke or gases.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:	Avoid contact with skin and eyes. Do not inhale spray. Wear long sleeved shirt, long pants, waterproof gloves and safety goggles or face shield. Do not eat, drink or smoke when using. Wash hands and face before meals and after work.
Environmental precautions:	Do NOT allow spilled product or wash solution to enter sewers, drains, dams, creeks or any other waterways.
Methods for cleaning up:	In the case of spillage, contain and absorb spilled material with absorbent material such as sand clay or cat litter. Keep out animals and unprotected persons. Keep material out of streams and sewers. Vacuum, shovel or pump waste into an approved drum. To decontaminate spill area, tools and

equipment, wash with a suitable solution (ie organic solvent, detergent, bleach or caustic) and add the solution to the drums of wastes already collected. Label for contents. Dispose of drummed wastes, including decontamination solution, in accordance with the requirements of Local Authorities

7. HANDLING AND STORAGE

Handling:	When mixing or applying, avoid contact with skin and eyes. Wear protective clothing, gloves and goggles. Do not eat or drink while using. Wash hands and face before meals and after work. Wash protective clothing after work.
Storage:	Store in original container tightly closed and in a locked, dry, cool, well ventilated area, away from feed, seeds and foodstuffs. Keep away from sparks and flames. Keep out of reach of children.
Packaging materials:	Fluorinated HDPE Plastic

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Workplace Exposure Guidelines

Workplace exposure standards: Not established

**Exposure Standards outside:
The workplace:** Not established

Engineering measures

Exposure control measures: Ensure ventilation is adequate, generally natural ventilation is adequate.

Personal Protective Equipment

Detail specifications for equipment:

Respiratory system: Do not inhale spray mist.

Skin and body: When opening the container, preparing spray and using the prepared spray wear cotton overalls buttoned to the neck and wrist and a washable hat, elbow-length and PVC gloves and goggles.

Hands: Elbow-length and PVC gloves

Eyes: Wear chemical goggles.

General hygiene: After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. After each day's use, wash contaminated clothing and safety equipment.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid
Colour:	Clear
Odour:	Slight citronella odour

pH:	N/A
Vapour Pressure:	0.024 mPa @ 25°C
Boiling Point:	N/A
Flash Point:	68°C
Solubility:	0.1mg/litre
Specific gravity or density:	0.903@20°C
Information for flammable material including:	
Octanol/water partition coefficient:	Not available
Explosion properties:	Not an explosive
Oxidation properties:	Not an oxidizer

10. STABILITY AND REACTIVITY

Stability:	Stable under normal conditions. Do not store below 4°C.
Conditions to avoid:	Excessive heat and sparks.
Materials to avoid:	Oxidising agents
Hazardous decomposition Products:	<i>Fire</i> - Carbon monoxide, carbon dioxide, chlorine, fluorine, hydrogen chloride and hydrogen fluoride.
Hazardous polymerization:	Will not occur
Specific Data:	
Hazardous reactions :	None known

11. TOXICOLOGICAL INFORMATION

Acute toxicity – Oral : LD₅₀	531mg/kg (Rat)
Acute toxicity - Dermal : LD₅₀	>2,000mg/kg (Rabbit)
Acute toxicity – Inhalation: LC₅₀	= 4.9mg/kg, 4 hrs (Rat)
Skin irritation :	May cause eye irritant
Eye irritation:	May cause eye irritant.
Sensitization :	Not a known sensitizer.
Chronic toxicity	IARC : Not listed NTP : Not Listed OSHA : Not Listed Other : Not Listed (ACGIH)
Carcinogenicity:	Not applicable
Other information :	

12. ECOLOGICAL INFORMATION

Ecotoxicity	Very toxic to aquatic organisms. LC50 = 0.00015mg/litre (Rainbow trout) LC50=0.00035mg/litre (Bluegill sunfish) LD50=1,800 mg/kg (Quail)
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Bees	LC50=0.146ug/bee
Earthworms	None available
Soil	Degrades at a moderate rate in soils, half life 65-125 days. Log Pow >6.0. Is tightly bound in most soils and is of extremely low water solubility.
Bioaccumulative potential :	Not available
Birds	None available

13. DISPOSAL CONSIDERATIONS

Methods of disposal :	Ideally, the product should be used for its intended purpose. If there is a need to dispose of the product, follow the recommendations in NZS 8409.
	CONTAINER DISPOSAL: Triple rinse container and add residue to spray tank. Burn if permitted and circumstances, especially wind direction allow, otherwise bury in landfill.

14. TRANSPORT INFORMATION -International transport regulations

UN number:	UN 3082
Class or Division:	9
Classification Code:	M6
Packing Group:	III
Marine Pollutant:	This material is classified as a severe Marine Pollutant (PP) according to the International Maritime Dangerous Goods Code.
Proper shipping name :	Environmentally Hazardous , substance, Liquid, N.O.S (Bifenthrin)
INTERNATIONAL AIR TRANSPORT ASSOCIATION (IATA):	Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

15. REGULATORY INFORMATION

ACVM Registered Number:	Not applicable
HSNO Approval Code:	HSR000277
Animal products Approval:	NZFSA Approved Type B (Animal Products except Dairy) AgriQuality New Zealand Limited approved 15 March 2001 for use in Dairy Factories Category B

16. OTHER INFORMATION

Additional information:	Original Issue Date: 9 th September 2005 Revision Date: 28 th June 2006 Replaces: ES102
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Disclaimer EXCLUSION OF LIABILITY: PLEASE READ

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