

**MAXFORCE® GOLD
GEL INSECTICIDE**Date of Issue: 15th March, 2006**1. Identification of the Substance/Mixture and Supplier.**

Product name:	Maxforce® Gold Gel Insecticide
Recommended Use:	For use in the control of cockroaches in domestic and commercial situations.
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:	HSNO Class* 9.1C, 9.4B Harmful to aquatic life. Toxic to terrestrial invertebrates.
Risk & Safety Phrases:	Not applicable.

3. Composition/Information on Ingredients.

Common name:	Fipronil
Synonyms:	None

Chemical Identity of
Ingredients:**Mixture:**

Ingredient	CAS No.	Content (g/kg)
Fipronil	120068-37-3	0.3
1,2-Benzisothiazalin	2634-33-5	2.5 approx
Other ingredients (non-hazardous)		997.2

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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 washing facilities are available.
Symptoms:	Signs and symptoms observed in the few cases of human poisoning in literature are nausea, vomiting, profuse sweating, drowsiness, agitation, coma and seizures (severe cases).
Eye:	Immediately irrigate with copious quantities of water for at least 15 minutes. Seek medical assistance.
Skin:	Remove contaminated clothing. Wash affected areas with plenty of soap and water.
Inhaled:	Due to nature of the product, inhalation is unlikely.
Ingestion:	If swallowed, contact a doctor and follow the advice given. Keep under medical supervision.
Treatment:	Fipronil is a reversible gamma-aminobutyric (GABA) receptor inhibitor. During intoxication it will induce neurological stimulation with possible convulsions. As no antidote is known, treatment should be symptomatic. Phenobarbital, and to a lesser extent, benzodiazepines, have been shown experimentally to be effective in preventing convulsions induced by fipronil. Due to slow absorption of fipronil through the gut, symptoms of intoxication may be delayed several hours to one day. Absorption may be decreased by the use of gastric lavage, saline purgative and activated charcoal. Continue monitoring - due to the slow elimination of the compound.

5. Fire-Fighting Measures.

Decomposition:	In the event of fire, hydrogen chloride, hydrogen fluoride and oxides of carbon, nitrogen and sulphur can be released
Extinguishing media:	Carbon dioxide, Dry agent, Water spray, Foam
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.

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Personal Precautions:	<p>Emergency Procedures: 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.</p>
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:	<p>Keep all bystanders away. Wear goggles, 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 50kg of product bury in a secure approved landfill site. • For quantities greater than 50kg 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 contact with eyes, skin and clothing.
Conditions for Safe Storage and 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.

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Engineering measures:	Control process conditions to avoid contact.
Respiratory protection:	Not required.
Clothing:	Wear suitable protective gloves.
Eye protection:	Not normally required. Avoid touching eyes while handling product.
Other protective equipment:	None.
Hygiene measures:	Avoid contact with eyes and skin. Keep away from food, drinks and tobacco. Wash hands after use.

9. Physical and Chemical Properties

Form:	Gel
Colour:	Brown with small dark specks
Odour:	Odourless
Vapour pressure:	3.7×10^{-4} mPa (25 °C) (technical fipronil)
Density:	1.64 at 20 °C (technical fipronil)
Viscosity:	Not available.
Solubility in water:	~2 mg/L (technical fipronil)
pH:	Not available.
Flash point:	Not available – not flammable.
Partition coefficient (n-octanol/water)	logP = 4.0 (shake flask method)

10. Stability and Reactivity

Stability of the Substance:	Stable under normal conditions of use.
Conditions to Avoid:	Extreme heat and fire.
Materials to Avoid:	None known.
Hazardous Reactions:	Thermal decomposition may produce toxic by-products of carbon and nitrogen.
Hazardous polymerization	Not applicable

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Acute oral toxicity:	LD ₅₀ rat: >5000 mg/kg (similar product)
Acute dermal toxicity:	LD ₅₀ rabbit: > 5000 mg/kg (similar product)
Acute inhalation toxicity:	LC ₅₀ (4 h) rat: 0.682 mg/L (technical fipronil)
Inhalation:	Not applicable.
Skin contact:	May irritate the skin – not classified as an irritant.
Eye contact:	May irritate the eyes – not classified as an irritant.
Ingestion:	The product exhibits low toxicity by the oral route.
Other information:	In a chronic toxicity study, rats receiving the highest dose of fipronil showed an increased incidence of thyroid tumours. The rat thyroid gland is very sensitive to chemicals and functions differently from the human thyroid, and therefore, fipronil is not considered to pose an increased risk of cancer to humans. Similar studies in mice and dogs did not show an increased incidence of thyroid tumours. Fipronil is not mutagenic and not teratogenic.

12. Ecological Information

Acute fish toxicity:	LC ₅₀ : (96h) 85 mg/L bluegill sunfish; 248 mg/L rainbow trout; 430 µg/L European carp (technical fipronil)
Daphnia toxicity:	LC ₅₀ : 0.19 mg/L daphnia (technical fipronil)
Bird toxicity:	LD ₅₀ : >2150 mg/kg mallard duck (technical fipronil)
Bee toxicity:	Highly toxic to bees by direct contact and ingestion.
Other:	Non-toxic to earthworms

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:	Dispose of empty container by wrapping in paper, placing in plastic bag and putting in the garbage.

**MAXFORCE® GOLD
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Rail/Road (RID/ADR)	Not applicable.
Sea (IMDG-Code)	Not applicable.
Air (ICAO/IATA)	Not applicable.

15. Regulatory Information.

HSNO Approval Number:	HSR000821
HSNO Controls (inc. Tracking):	See www.ermanz.govt.nz for controls.
Approved Handlers required:	Not required.
ACVM Registration:	Not applicable.
ACVM Controls:	Not applicable.

16. Other Information.

9.1C	Harmful to aquatic life.
9.4B	Toxic to terrestrial invertebrates.

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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.