

Bayer Environmental Science

Safety Data Sheet

Baysol® Snail and Slug Bait



Version 102000007387 / NZ

Revision Date: 07.03.2012

1. Identification of the Substance/Mixture and Supplier

Product name: **Baysol® Snail and Slug Bait**

Recommended use: Ready-to-use bait pellets for protection from snails and slugs in the home garden.

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***
6.1D, 6.9B, 9.1B, 9.2D, 9.3B, 9.4C
May be harmful if swallowed, inhaled or absorbed through skin.
May cause organ damage from repeated oral exposure.
Toxic to aquatic life.
Toxic to terrestrial vertebrates.
Harmful to terrestrial invertebrates.
May be harmful to soil environment.

Risk & Safety Phrases: R22

3. Composition/Information on Ingredients

Common name: Methiocarb

Synonyms: None

Chemical identity of
Ingredients:

Mixture:

Ingredient	CAS No.	Content (g/kg)
Methiocarb	2032-65-7	20
Calcium sulfate	7778-18-9	75
Butylated hydroxytoluene	128-37-0	2
Other ingredients (non-hazardous)		903



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:	Ensure eye wash and safety shower are available when handling this product. Obtain an emergency supply of atropine tablets 0.6 mg.
Symptoms:	Local: Temporary blurred vision due to contraction of the pupils (miosis) following contact with the eyes. Systemic: Salivation, flushing, dizziness, abdominal pain, discomfort in the chest, muscle twitching, convulsions, respiratory failure, headache, vomiting, diarrhoea, sweating, blurred vision, low blood pressure, nausea.
Eye:	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.
Skin:	Wash off thoroughly with plenty of water and soap, if available with polyethyleneglycol 400, subsequently rinse with water.
Inhaled:	Presentation as bait pellets makes inhalation unlikely.
Ingestion:	Rinse mouth. Do NOT induce vomiting. Call a physician or poison control center immediately.
Treatment:	Risks: This product contains a cholinesterase inhibitor carbamate. Treatment: Monitoring of respiratory, cardiac and central nervous system. Monitoring of the blood picture. Observe specific parameters: red blood cell and plasma cholinesterase. ECG - monitoring (Electrocardiogram). Endotracheal intubation and gastric lavage, followed by administration of charcoal. Keep airway clear, administer artificial respiration if necessary. Against convulsions: give diazepam. For adults 5-10 mg intravenously as necessary until fully sedated; for children 2.5 mg i.v. Treatment for adults: for all cases a high dose of atropine (2 to 4 mg) repeated every 10 to 15 minutes as needed. Contraindications: oximes (pralidoxime, obidoxime), succinyl choline, aminophylline.
Veterinary:	Dogs find this bait attractive and if ingested it may kill them. If a dog eats pellets take it to a veterinarian immediately. NB. Ipecac Syrup is not an effective emetic for dogs and is not recommended.



5. Fire-Fighting Measures

Decomposition:	In case of fire, the evolution of dangerous gases is possible.
Extinguishing media:	Water spray, carbon dioxide, foam, sand.
Recommended protective clothing:	Fire fighters should wear full protective clothing and self-contained breathing apparatus. Do not breathe fumes. 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: 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, half face-piece respirator with combined dust and vapour cartridge, overalls, boots and chemical resistant 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 kg of product bury in a secure approved landfill site. For quantities greater than 50 kg 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:	Avoid contact with eyes, skin or clothing. Scatter baits from the packet. If handling wear rubber gloves.
Conditions for safe storage and store sire requirements:	<p>Keep out of the reach of children and pets. Keep containers tightly closed in a dry, cool and well-ventilated place. Store in a place accessible by authorized persons only. Avoid temperatures below 0 °C or above 30 °C.</p>

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Packaging:	Store in original container, tightly closed, away from foodstuffs.
8. Exposure Control/Personal Protection	
Engineering measures:	Control process conditions to avoid contact. Use local exhaust ventilation during manufacture.
Respiratory protection:	Not usually required during normal use. During manufacture a respirator or hood with an independent air supply should be worn. If dust is formed in handling the bait pellets, a disposable dust mask should be worn.
Eye protection:	Not usually required during normal use. Wear goggles if there is a possibility of eye contact.
Other protective equipment:	Wear protective gloves if there is a possibility of skin contact.
Hygiene measures:	Avoid contact with eyes, skin or clothing. Scatter baits from the packet. If handling wear rubber gloves. Wash immediately after handling with soap and water. Wash before eating or smoking.
9. Physical and Chemical Properties	
Form:	Ready-to-use bait pellets
Odour:	Weak characteristic
Colour:	Blue
Melting point:	119 °C (methiocarb)
Vapour pressure:	0.015 mPa at 20 °C (methiocarb)
Density:	164 (loose) / 148 (packed) mL/100 g
Viscosity:	Not applicable
Solubility in water:	The bait pellets swell in water
pH:	Not applicable
Flash point:	Not applicable
Partition coefficient (n-octanol/water)	Methiocarb: Log P_{ow} = 3.08 at 20 °C
10. Stability and Reactivity	
Stability of the substance:	Stable under normal conditions of use.

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Conditions to avoid:	Extreme heat, moisture.
Materials to avoid:	Oxidising agents, alkalis.
Hazardous reactions:	Thermal decomposition can lead to release of: Hydrogen cyanide Carbon monoxide Methyl isocyanate Sulphur dioxide Nitrogen oxides
Hazardous polymerization:	None.

11. Toxicological Information

Acute oral toxicity:	LD ₅₀ rat: > 500 to < 1000 mg/kg
Acute dermal toxicity:	LD ₅₀ rat: > 2000 mg/kg
Acute inhalation toxicity:	LC ₅₀ (4 h) rat: > 0.224 mg/L – dustable powder – highest producible concentration
Inhalation:	Inhalation not likely.
Skin contact:	Poisonous if absorbed by skin contact, but this route of exposure is unlikely. Not expected to irritate the skin.
Eye contact:	May irritate the eyes.
Ingestion:	Product is harmful if swallowed. May cause organ damage from repeated oral exposure.
Other information:	The main health effects from repeated exposure would be toxic symptoms of cholinesterase inhibition as described above. Methiocarb showed no evidence of oncogenic or carcinogenic potential in animal studies. Methiocarb is not mutagenic, and has shown no teratogenic effects in animal studies. It does not cause delayed neurotoxicity.

12. Ecological Information

Acute fish toxicity:	LC ₅₀ (96 h): 0.65 mg/L bluegill sunfish (methiocarb)
Bird toxicity:	LD ₅₀ : 5-10 mg/kg Japanese quail; 7.1-9.4 mg/kg male mallard ducks (methiocarb)
Algae toxicity:	EC ₅₀ (72 h): 2.2 mg/L <i>Desmodesmus subspicatus</i> (methiocarb)
Bee toxicity:	Non-toxic to bees.

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13. Disposal Considerations

Product disposal: Dispose of this product only by using according to the label. Avoid contamination of any water supply with product or empty container.

Container disposal: Destroy empty container after use.

14. Transportation Information

ADG

UN-Number: 3077
Class: 9
Subsidiary Risk: None
Packaging group: III:
Description of the goods ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (PERMETHRIN MIXTURE)
Hazchem Code: 2Z

IMDG

UN-Number: 3077
Class: 9
Subsidiary Risk: None
Packaging group: III
EmS: F-A , S-F
Marine pollutant: YES
Description of the goods ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (PERMETHRIN MIXTURE)

IATA

UN-Number: 3077
Class: 9
Subsidiary Risk: None
Packaging group: III
Environm. Hazardous Mark: YES
Description of the goods: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (PERMETHRIN MIXTURE)

15. Regulatory Information

HSNO Approval Number: HSR000145
HSNO Controls (inc. Tracking): See www.epa.govt.nz for full listing of controls.
Approved Handlers required: Not required.
ACVM Registration: P006104
ACVM Controls: Not applicable.

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16. Other Information

6.1D May be harmful if swallowed, inhaled or absorbed through skin.
6.9B May cause organ damage from repeated oral exposure.
9.1B Toxic to aquatic life.
9.2D May be harmful to soil environment.
9.3B Toxic to terrestrial vertebrates.
9.4C Harmful to terrestrial invertebrates.

R22 – Harmful if swallowed.

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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.