

MATERIAL SAFETY DATA SHEET

Maxforce® White Cockroach Gel

Date of Issue: November 28th, 2007

1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND SUPPLIER

Product name: Maxforce® White Cockroach Gel
Other names: None
Product code: Not available
Chemical group: Guanidine
Recommended use: Insecticidal bait gel for cockroach control.
Formulation: Gel
Supplier: Bayer Environmental Science – A Business Group of Bayer CropScience Pty Ltd
ABN 87 000 226 022
Address: 391 - 393 Tooronga Road, East Hawthorn
Victoria 3123, Australia
Telephone: (03) 9248 6888
Facsimile: (03) 9248 6800
Website: www.bayercropscience.com.au
Contact: Technical Manager (03) 9248 6854
Emergency Telephone Number: 1800 033 111 – Orica SH&E Shared Services

2. HAZARDS IDENTIFICATION

NON-HAZARDOUS SUBSTANCE - NON-DANGEROUS GOOD

May irritate skin. Not flammable.

Hazard designation: Non-hazardous (National Occupational Health and Safety Commission - NOHSC)
Risk phrases: Not applicable
Safety phrases: See sections 4, 5, 6, 7, 8, 9, 13
ADG classification: This product is not classified as a Dangerous Good under the Australian Code for the Transport of Dangerous Goods by Road and Rail.
SUSDP classification: Exempt

3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients:	CAS Number:	Concentration (g/kg):
Imidacloprid	[138261-41-3]	21.5
Min. 1.5% aqueous mixture of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	[55965-84-9]	0.09
Other ingredients (non-hazardous)	-	>970

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4. FIRST AID MEASURES

If poisoning occurs, immediately contact a doctor or Poisons Information Centre (telephone 13 11 26), and follow the advice given. Show this Material Safety Data Sheet to a doctor.

Inhalation:	The presentation as a gel means inhalation is unlikely.
Skin contact:	Wash skin immediately with copious amounts of soap and water. Seek medical advice if irritation occurs.
Eye contact:	Rinse eyes thoroughly with water. See medical advice if irritation occurs.
Ingestion:	Seek medical advice.
First Aid Facilities:	Provide washing facilities in the workplace.
Symptoms:	Symptoms of intoxication that may arise if the product is mishandled include nausea, abdominal pain and diarrhoea. Muscular cramps, apathetic state, depressed muscular tone, respiratory disturbance and trembling are also possible in severe cases of poisoning.
Medical attention:	<u>Treatment</u> Basic aid, decontamination, symptomatic treatment. <u>Note for physicians</u> Check blood pressure and pulse rate frequently since bradycardia and hypotension are possible. Provide supportive measures for respiratory and cardiac function. Give artificial respiration if signs of paralysis appear. Additional therapeutic measures involve elimination of the substance from the body or acceleration of its excretion (gastro-lavage, saline laxatives). No specific antidote known. Contraindications: Absorption promoting agents such as alcoholic beverages and milk. Oils and fats are of no special significance due to the low liposolubility of the active ingredient.

5. FIRE FIGHTING MEASURES

Extinguishing media:	Carbon dioxide, water, dry agent, foam
Hazards from combustion products:	In the event of fire, the formation of hydrogen chloride, hydrogen cyanide, carbon monoxide and nitrogen oxides must be anticipated. Do not breathe fumes.
Precautions for fire fighters:	Fire fighters should wear full protective gear, including self-contained breathing apparatus (AS/NZS 1715/1716). Keep unnecessary people away and move all other personnel to windward side of fire. Bund area with sand or earth to prevent contamination of drains or waterways. Dispose of fire control water or other extinguishing agent and spillage safely later.

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6. ACCIDENTAL RELEASE MEASURES

Dealing with spills and disposals may result in the potential for increased personal exposure. Protective clothing and equipment as described in the PERSONAL PROTECTION section should be worn. Avoid contact with spilled material or contaminated surfaces. Keep people and animals away. Contain spill, sweep up or shovel and place in properly labelled sealed drums for safe disposal. Deal with all spillages immediately. If contamination of drains, streams, watercourses etc. is unavoidable, warn the local water authority.

7. HANDLING AND STORAGE

Handling: Keep out of reach of children.

Storage: Store below 30°C
Do not store in direct sunlight. Store in the closed, original carton in a cool, dry place.
Do not destroy carton while product remains.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure standards: NOHSC exposure standards have not been established for imidacloprid or for any of the inert constituents of this formulation.

Engineering controls: No engineering controls are required in the normal use of this product.

Personal Protective Equipment: None required during normal use. Wash hands after use. Place bait spots out of reach of children or pets.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: White to beige colour gel
Odour: Slight characteristic smell
Vapour pressure: 2×10^{-9} hPa at 20°C (active constituent)
Vapour density: Not available
Boiling point: Not available
Solubility: Miscible
Density: Approx 1.2 kg/L
pH: 4.4-5.0 at 1% in water
Flash Point: No flash point up to 100°C.
Flammability (explosive) limits: Not applicable
Auto-ignition temperature: Not available
Octanol/water partition coefficient: log P octanol/water = 0.57
Formulation: Gel bait for control of cockroaches

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10. STABILITY AND REACTIVITY

Chemical stability:	Product is not classified as flammable.
Hazardous polymerisation:	None
Conditions to avoid:	Keep away from sources of ignition and strong oxidising agents as a precaution.
Incompatible materials:	Not available
Hazardous decomposition products:	In the event of fire, the formation of hydrogen chloride, hydrogen cyanide, carbon monoxide and nitrogen oxides must be anticipated.

11. TOXICOLOGICAL INFORMATION

POTENTIAL HEALTH EFFECTS

Inhalation:	Due to the nature of this product, inhalation is unlikely
Skin contact:	May irritate the skin
Eye contact:	Unlikely to irritate eyes
Ingestion:	Not available
Other:	None

ANIMAL TOXICITY DATA – PRODUCT:

Acute:

Oral toxicity:	LD ₅₀ rat: > 5000 mg/kg
Dermal toxicity:	LD ₅₀ rat: > 5000 mg/kg i.e practically non-toxic
Inhalation toxicity:	Not available
Skin irritation:	Slightly irritating – rabbit
Eye irritation:	Not irritating – rabbit
Sensitisation:	Not sensitising – Guinea pig

Chronic:

Animal studies show no evidence of oncogenic effect, no evidence of carcinogenic effects and no teratogenic potential for imidacloprid.

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12. ECOLOGICAL INFORMATION

Do not contaminate ponds, waterways or drains with the chemical or used containers.

Fish toxicity:	LC ₅₀ : 237 mg/L (96 h); golden orfe (<i>Leuciscus idus melanotis</i>) LC ₅₀ : 211 mg/L (96 h); rainbow trout (<i>Oncorhynchus mykiss</i>)
Daphnia toxicity:	EC ₅₀ : 85 mg/L (48 h) <i>Daphnia magna</i>
Toxicity to algae:	EC ₅₀ : > 100 mg/L (72 h); green alga (<i>Pseudokirchneriella subcapitata</i>)
Bird toxicity:	Acute oral LD ₅₀ : 31 mg/kg; Japanese quail Acute oral LD ₅₀ : 152 mg/kg; bobwhite quail
Bee toxicity:	Dangerous to bees
Other:	None
Environmental fate, persistence and degradation:	Imidacloprid shows a medium adsorption to soil. Classified as immobile in soil. Not expected to leach.

13. DISPOSAL CONSIDERATIONS

- 1) After intended use:
Wrap used packaging in paper, place in a plastic bag and put in garbage.
- 2) After spill or accident:
Dispose of sealed containers at an approved local waste disposal site.

14. TRANSPORT INFORMATION

UN number:	Not applicable
Proper shipping name:	Not applicable
Class and Subsidiary Risk:	Not "dangerous goods" for transport by road or rail according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.
Packing Group:	Not applicable
EPG:	Not applicable
Hazchem code:	Not applicable
Marine pollutant:	No

15. REGULATORY INFORMATION

Registered according to the Agricultural and Veterinary Chemicals Act 1988

Australian Pesticides and Veterinary Medicines Authority Approval Number: 61937

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16. OTHER INFORMATION

Trademark information: Maxforce® is a Registered Trademark of Bayer

Preparation information: First edition.

Data sources: Bayer CropScience Pty Ltd product safety data and published data

This MSDS summarises our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this MSDS and consider the information in the context of how the product will be handled and used in the workplace including in conjunction with other products.

If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company.

Our responsibility for products sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available on request.

END OF MSDS