

MATERIAL SAFETY DATA SHEET

Bayer Advanced Home Rat and Mouse Killer contains Racumin®



Date of Issue: June 27th, 2011

1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND SUPPLIER

Product name: Bayer Advanced Home Rat and Mouse Killer contains Racumin®
Other names: None
UVP: 5141435
Chemical group: Coumarin anticoagulant
Recommended use: Rodenticide
Formulation: Bait (ready-for-use) RB
Supplier: Bayer Environmental Science – A Business Operation of Bayer CropScience Pty Ltd
ABN 87 000 226 022
Address: 391 - 393 Tooronga Road, East Hawthorn
Victoria 3123, Australia
Telephone: (03) 9248 6888
Technical Information Service: 1800 804 479
Facsimile: (03) 9248 6800
Website: www.bayeres.com.au
Contact: Technical Manager (03) 9248 6888
Emergency Telephone Number: 1800 033 111 – Orica SH&E Shared Services

2. HAZARDS IDENTIFICATION

NON-HAZARDOUS SUBSTANCE - NON-DANGEROUS GOOD

Poisonous if swallowed.

Hazard designation: Non-hazardous (National Occupational Health and Safety Commission - NOHSC)
Risk phrases: None allocated
Safety phrases: See Sections 4, 5, 6, 7, 8, 10, 13
ADG classification: Not "dangerous goods" for transport by road or rail according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.
SUSMP classification: Schedule 5 (Standard for the Uniform Scheduling of Medicine and Poisons)

3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients:	CAS Number:	Concentration (g/kg):
Coumatetralyl	[5836-29-3]	0.375
Other ingredients (non-hazardous)	-	To 1 kg

This product contains BITREX™ which is a deterrent designed to prevent domestic animals eating the bait.

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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:** Presentation as a soft paste bait means inhalation is unlikely.
- Skin contact:** Wash off thoroughly with plenty of soap and water, if available with polyethyleneglycol 400, subsequently rinse with water. If symptoms persist, call a physician.
- Eye contact:** 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. Get medical attention if irritation develops and persists.
- Ingestion:** Do NOT induce vomiting. Rinse mouth. Call a physician or poison control center immediately.
- First Aid facilities:** Provide washing facilities in the workplace (including eye-wash).
- Medical attention:** Coumatetralyl inhibits vitamin K1-dependant coagulation.

Symptoms

State of shock, nose bleeding, bloody vomiting, abdominal pain, back pain.

Treatment

Treat symptomatically.

Note for physicians

Gastric lavage should be performed in cases of significant ingestions within the first 2 hours, followed by administration of activated charcoal and sodium sulfate. The application of activated charcoal and sodium sulfate is always advisable. The antidote for coumatetralyl is vitamin K1. The efficacy of vitamin K1 treatment should be assessed by monitoring the coagulation parameters, such as prothrombin time or INR. Initial treatment may be done with intravenous vitamin K1 in severe cases, while usually oral vitamin K1 should be sufficient.

Severe poisoning cases may require the initial application of blood products:

- whole blood
- fresh frozen plasma and fresh blood should be used in cases of severe bleeding to rapidly restore blood clotting factors.

Transfusions may be required in cases of significant blood loss.

It is expected that repeated intake of coumatetralyl would be required to cause an actual poisoning, yet it is prudent to control coagulation parameters for several days after ingestions.

5. FIRE FIGHTING MEASURES

Extinguishing media: Water spray, carbon dioxide, alcohol-resistant foam, dry chemical.

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Extinguishing media that should not be used for safety reasons:	High volume water jet.
Hazards from combustion products:	In a fire, carbon monoxide may be released.
Precautions for fire fighters:	In the event of fire, wear self-contained breathing apparatus (AS/NZS 1715/1716). In the event of fire and/or explosion do not breathe fumes. Contain the spread of the fire-fighting media. Do not allow run-off from the fire fighting to enter drains or water courses.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:	Avoid contact with spilled product or contaminated surfaces. Use personal protective equipment.
Environmental precautions:	Do not allow to get into surface water, drains and ground water.
Methods for cleaning up:	Use mechanical cleaning equipment. Clean contaminated floors and objects thoroughly, observing environmental regulations. Keep in suitable, closed containers for disposal.
Additional advice:	Information regarding safe handling, see Section 7. Information regarding personal protective equipment, see section 8. Information regarding waste disposal, see section 13.

7. HANDLING AND STORAGE

Handling:	
Hygiene measures:	Avoid contact with skin, eyes and clothing. Keep working clothes separately. Wash hands before breaks and immediately after handling the product. Remove soiled clothing immediately and clean thoroughly before using again. Garments that cannot be cleaned must be destroyed (burnt).
Storage:	
Requirements for storage areas and containers:	Keep containers tightly closed in a dry, cool and well-ventilated place. Store in original container. Store in a place accessible by authorised persons only.
Advice on common storage:	Keep away from food, drink and animal feedingstuffs.

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Components with workplace control parameters:

Components	CAS-No.	Control parameters	Update	Basis
Coumatetralyl	5836-29-3	0.01 mg/m ³ (TWA)		OES BCS

Engineering controls:

Advice on safe handling: No special precautions required when handling unopened pack/containers.
Wear gloves when handling opened packs and/or when applying the product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:

Form: Pasty to solid
Colour: Blue
Odour: Weak, characteristic

Safety data:

pH: No data available

Melting point/range: > 200 °C

Flash point: No data available

Ignition temperature: 425 °C

Upper explosion limit:

No data available

Lower explosion limit:

No data available

Vapour pressure: No data available

Relative vapour density: No data available

Density: Ca. 1.19 g/cm³ at 20 °C

Water solubility: Not dispersible

Partition coefficient n-octanol/water: No data available

Combustion number: CN3 Local combustion with spreading at 20 °C

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10. STABILITY AND REACTIVITY

Chemical stability: Stable under normal conditions of use.

Hazardous reactions: No hazardous reactions when stored and handled according to prescribed instructions.

11. TOXICOLOGICAL INFORMATION

POTENTIAL HEALTH EFFECTS

Inhalation: Coumatetralyl is poisonous by inhalation, however presentation as a soft bait paste containing 0.0375% coumatetralyl makes inhalation unlikely.

Skin contact: Not a skin irritant.

Eye contact: Not an eye irritant.

Ingestion: See below.

Other: Coumatetralyl is a first generation anticoagulant of the warfarin type. Symptoms of overexposure relate to failure of the blood clotting mechanism and include bleeding gums and failure of blood clotting after skin wounds. After one exposure the toxicity of coumatetralyl is relatively low, however if exposure continues over several days the product becomes more toxic. That is, the product must be constantly present in the blood for more than 1 to 2 days in order to be highly toxic. A single exposure, even though relatively large, may not produce toxic symptoms as the compound is quite rapidly metabolised.

ANIMAL TOXICITY DATA – PRODUCT:

Acute oral toxicity: LD₅₀ rat: 1000 mg/kg

Acute dermal toxicity: LD₅₀ rat: >4000 mg/kg

Inhalation toxicity: LC₅₀ (4 h) for rats 39 mg/m³

Skin irritation: Not a skin irritant - rabbit

Eye irritation: Not an eye irritant - rabbit

Sensitisation: Not a skin sensitizer – mouse
OECD Test Guideline 429, local lymph node assay (LLNA)

12. ECOLOGICAL INFORMATION

Ecotoxicity effects:

Fish toxicity: LC₅₀ (96h) 48 mg/L (Rainbow trout *Oncorhynchus mykiss*)
The value mentioned relates to the active ingredient.

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Toxicity to aquatic invertebrates: EC₅₀ (48h) >14 mg/L (Water flea *Daphnia magna*)
The value mentioned relates to the active ingredient.

Toxicity to aquatic plants: IC₅₀ >18 mg/L (*Desmodosmus subspicatus*)
The value mentioned relates to the active ingredient.

13. DISPOSAL CONSIDERATIONS

Metal drums and plastic containers: Triple or preferably pressure rinse containers before disposal. Add rinsings to spray tank. Do not dispose of undiluted chemicals on site. If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, break, crush or puncture and bury empty containers in a local authority landfill. If no landfill is available, bury the containers below 500 mm in a disposable pit specifically marked and set-up for this purpose clear of waterways, desirable vegetations and tree roots. Empty containers and product should not be burnt.

14. TRANSPORT INFORMATION

According to national and international transport regulations the product is not classified as dangerous goods.

15. REGULATORY INFORMATION

Registered according to the Agricultural and Veterinary Chemicals Act 1994.

Australian Pesticides and Veterinary Medicines Authority Approval Number: 59284.

16. OTHER INFORMATION

Trademark information: Racumin® is a Registered Trademark of Bayer.

Preparation information: Replaces edition May 19th, 2011.
Reasons for revision: Additions to Section 11.

Data sources: Bayer CropScience European product safety data sheet.

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.

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END OF MSDS