

MATERIAL SAFETY DATA SHEET

Racumin® 8 Rat and Mouse Rodenticide



Date of Issue: May 19th, 2011

1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND SUPPLIER

Product name: Racumin® 8 Rat and Mouse Rodenticide
Other names: None
UVP: 00864870
Chemical group: Coumarin anticoagulant
Recommended use: Rodenticide
Formulation: Bait concentrate
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

Harmful in contact with skin and if swallowed.

Hazard designation: Non-hazardous (National Occupational Health and Safety Commission - NOHSC)
Risk phrases: R21/22 Harmful in contact with skin and if swallowed.
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 6 (Standard for the Uniform Scheduling of Medicine and Poisons)

3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients:	CAS Number:	Concentration (g/kg):
Coumatetralyl	[5836-29-3]	8
Talc (containing no asbestos fibers)	[14807-96-6]	978 g/kg
Other ingredients (non-hazardous)	-	To 1 kg

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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:** Move the patient to fresh air and keep at rest. Seek medical attention if concerned.
- 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 adviseable. 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, sand.

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Extinguishing media that should not be used for safety reasons:

High volume water jet.

Hazards from combustion products:

Fine dust may form explosive mixtures in air. 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
Talc	14807-96-6	2 mg/m ³ (TWA)		NOHSC

Engineering controls:

Advice on safe

When handling the product use the scoop or measure provided.

handling:

Wear elbow length gloves when handling opened packs and/or when applying the product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:

Form: Powder
Colour: Violet
Odour: No specific odour

Safety data:

pH: No data available

Melting point/range: 172 – 176 °C (coumatetralyl)

Flash point: No data available

Ignition temperature: 359 °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 kg/L

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.

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11. TOXICOLOGICAL INFORMATION

Acute oral toxicity:	LD ₅₀ rat: 16.5 mg/kg The value mentioned relates to the active ingredient.
Acute dermal toxicity:	LD ₅₀ rat: 100-500 mg/kg The value mentioned relates to the active ingredient.
Inhalation toxicity:	LC ₅₀ (4 h) rats: 39 mg/m ³ The value mentioned relates to the active ingredient.
Skin irritation:	Not a skin irritant – rabbit Relates to the active ingredient.
Eye irritation:	Not an eye irritant - rabbit Relates to the active ingredient.
Sensitisation:	Not a skin sensitizer – mouse Relates to the active ingredient.

12. ECOLOGICAL INFORMATION

Ecotoxicity effects:	
Fish toxicity:	LC ₅₀ (96h) 48 mg/L (Rainbow trout <i>Oncorhynchus mykiss</i>) The value mentioned relates to the active ingredient.
Toxicity to aquatic invertebrates:	EC ₅₀ (48h) >14 mg/L (Water flea <i>Daphnia magna</i>) The value mentioned relates to the active ingredient.
Toxicity to aquatic plants:	IC ₅₀ >18 mg/L (<i>Desmodesmus subspicatus</i>) The value mentioned relates to the active ingredient.

13. DISPOSAL CONSIDERATIONS

Metal drums and plastic containers:	Shake empty container onto baiting site. 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.
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14. TRANSPORT INFORMATION

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

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15. REGULATORY INFORMATION

Registered according to the Agricultural and Veterinary Chemicals Act 1994.

Australian Pesticides and Veterinary Medicines Authority Approval Number: 52182.

16. OTHER INFORMATION

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

Preparation information: Replaces edition September 12th, 2006.
Reasons for revision: Renewal due.

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.

END OF MSDS