

MATERIAL SAFETY DATA SHEET

Racumin 8 Rat and Mouse Rodenticide

Date of Issue: October 15, 2001

1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND SUPPLIER

Product name: Racumin 8 Rat and Mouse Rodenticide
Other names: None
Product code: 65891
Recommended use: Rodenticide tracking powder and bait concentrate for rat and mouse control
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

HAZARDOUS SUBSTANCE - NON-DANGEROUS GOOD

May irritate eyes and skin. Not flammable.

Hazard designation: Hazardous according to criteria of Worksafe Australia
Risk phrases: R27/28 Very toxic in contact with skin and if swallowed
R48/24/25 Toxic: danger of serious damage to health by prolonged exposure in contact with skin and if swallowed
Safety phrases: Not applicable
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.
SUSDP classification: Schedule 6 (Standard for the Uniform Scheduling of Drugs and Poisons)

3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients:	CAS Number:	Concentration (g/kg):
Coumatetralyl	[5836-29-3]	8
Dyestuff	-	Low
Talc	[14807-96-6]	Very high

Proportion (%w/w): Low = 1-9%; V.high = >60%

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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:** Not available
- Skin contact:** Wash off the skin with soap and water.
- Eye contact:** Hold open and flush with water for at least 15 minutes.
- Ingestion:** If poisoning via the oral route occurs seek immediate medical advice.
- First Aid Facilities:** Provide washing facilities in the workplace.
- Symptoms:** Symptoms of overexposure relate to failure of the blood clotting mechanism and include bleeding gums and failure of blood clotting after skin wounds.
- Medical attention:** Refer to the section on Health Effects above.
If poisoning occurs apply basic aid and decontamination procedures. Consideration should be given to inducing emesis and/or administering activated charcoal to prevent further absorption.
Vitamin K1 (Phytomenadione) is antidotal. Administer Vitamin K1 regularly IV or orally until clotting times return to normal and remain normal.
In severe poisonings blood transfusions may be required.
Coumatetralyl is quickly metabolised so Vitamin K1 therapy may only need to be continued for one week. However monitor clotting times.

5. FIRE FIGHTING MEASURES

- Extinguishing media:** Water fog or foam.
- Hazards from combustion products:** If involved in a fire: No hazardous decomposition products will be emitted.
- Precautions for fire fighters:** Fight fire in the early stages if safe to do so. Wear respiratory protection.
Well ventilated areas: wear full face mask with combination filter

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eg., ABEK-P2 (offers no protection from carbon monoxide).
Enclosed premises: wear respirator with independent air supply.

Contain firefighting water.

6. ACCIDENTAL RELEASE MEASURES

After spillage/leakage/gas leakage:
Prevent spillage from spreading or entering waterways and drains. Work from up-wind side of spill. Do not inhale dust. Vacuum or sweep up spill. Fill material along with any contaminated soil etc., into sealable containers. Clean affected area with an aqueous detergent and a small amount of water. Absorb this with hydrated lime and place in a sealable drum. Spread hydrated lime over the affected area. Do not smoke, eat or drink during clean-up operation.

7. HANDLING AND STORAGE

Handling: Keep out of reach of children.

Storage: Store away from food, drink or animal feeding stuffs.
Store below 30°C.
Keep away from heat or moisture.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure standards: NOHSC exposure standards have not been established for the active constituent or any excipient in this formulation except:
Talc TWA 2.5 mg/cu metre (NOHSC)

Engineering controls: When handling the product use the scoop or measure provided.

Personal Protective Equipment: Poisonous if swallowed. Avoid contact with skin and eyes. Do not inhale dust. Do not touch the bait.
Personal protective equipment:
When using the product, and preparing the product for use, wear elbow length PVC gloves.

If product on skin and after each baiting, wash thoroughly with soap and water. After use and before drinking or smoking, wash hands, arms and face thoroughly with soap and water. After each day's use wash gloves.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Violet coloured powder
Odour:	No specific odour
Vapour pressure:	Not relevant
Vapour density:	Not relevant
Boiling point:	Not relevant
Solubility:	Insoluble
Density:	Approx 1 kg/L
pH:	Not relevant
Flash Point:	Not relevant
Flammability	Not relevant
(explosive) limits:	
Auto-ignition temperature:	Not relevant
Octanol/water partition coefficient:	Not relevant
Formulation:	Powder bait for the control of rats and mice

10. STABILITY AND REACTIVITY

Chemical stability:	Product is stable. Avoid strong oxidising agents.
Hazardous polymerisation:	Hazardous polymerisation will not occur.
Conditions to avoid:	Keep away from heat or moisture
Incompatible materials:	Avoid strong oxidising agents.
Hazardous decomposition products:	If involved in a fire: No hazardous decomposition products will be emitted

11. TOXICOLOGICAL INFORMATION

POTENTIAL HEALTH EFFECTS

Inhalation:	Not available
Skin contact:	Not available
Eye contact:	Not available

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Ingestion: Not available

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: No data available for the product.

ANIMAL TOXICITY DATA – ACTIVE INGREDIENT:

Acute:

Oral toxicity: LD₅₀ rat: 16.5 mg/kg

Dermal toxicity: LD₅₀ rat: 25-30 mg/kg

Inhalation toxicity: Not available

Skin irritation: Not available

Eye irritation: Not available

Sensitisation: Not available

Chronic:

The toxicity of the product is greater after repeated exposure than in a single dose. Animal tests have shown coumatetralyl not to have any carcinogenic or teratogenic potential.

12. ECOLOGICAL INFORMATION

Do not allow dogs, cats or other mammals to contact this product.
No other ecological data available.

Fish toxicity: Not available

Daphnia toxicity: Not available

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Toxicity to algae: Not available

Bird toxicity: Not available

Bee toxicity: Not available

Other: Not available

Environmental fate, persistence and degradation: Not available

13. DISPOSAL CONSIDERATIONS

- 1) After intended use: Shake empty container onto baiting site. Do not dispose of undiluted chemicals on-site. Break, crush or puncture and bury empty containers in a local authority landfill. If not available, bury the containers below 500 mm in a disposal pit specifically marked and set up for this purpose clear of waterways, vegetation and roots.
- 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

15. REGULATORY INFORMATION

Registered according to the Agricultural and Veterinary Chemicals Act 1988

National Registration Authority Approval Number: 52182

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16. OTHER INFORMATION

Trademark information:

Racumin is a trademark of Bayer.

Preparation information:

Replaces July 01, 1999 edition.

Reason for update: Conversion to 16 heading format.

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