

**MATERIAL SAFETY DATA SHEET**  
**Racumin® Rat and Mouse Paste**



Date of Issue: May 19<sup>th</sup>, 2011

**1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND SUPPLIER**

**Product name:** Racumin® Rat and Mouse Paste  
**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](http://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**

<b>Ingredients:</b>	<b>CAS Number:</b>	<b>Concentration (g/kg):</b>
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 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, dry chemical.

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**Racumin® Rat and Mouse Paste**



Date of Issue: May 19<sup>th</sup>, 2011

<b>Extinguishing media that should not be used for safety reasons:</b>	High volume water jet.
<b>Hazards from combustion products:</b>	In a fire, carbon monoxide may be released.
<b>Precautions for fire fighters:</b>	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**

<b>Personal precautions:</b>	Avoid contact with spilled product or contaminated surfaces. Use personal protective equipment.
<b>Environmental precautions:</b>	Do not allow to get into surface water, drains and ground water.
<b>Methods for cleaning up:</b>	Use mechanical cleaning equipment. Clean contaminated floors and objects thoroughly, observing environmental regulations. Keep in suitable, closed containers for disposal.
<b>Additional advice:</b>	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**

<b>Handling:</b>	
<b>Hygiene measures:</b>	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).
<b>Storage:</b>	
<b>Requirements for storage areas and containers:</b>	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.
<b>Advice on common storage:</b>	Keep away from food, drink and animal feedingstuffs.

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Date of Issue: May 19<sup>th</sup>, 2011

### 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 <sup>3</sup> (TWA)		OES BCS

#### Engineering controls:

##### Advice on safe

No special precautions required when handling unopened pack/containers.

##### handling:

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/cm<sup>3</sup> 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

**Acute oral toxicity:** LD<sub>50</sub> rat: 1000 mg/kg

**Acute dermal toxicity:** LD<sub>50</sub> rat: >4000 mg/kg

**Inhalation toxicity:** LC<sub>50</sub> (4 h) for rats 39 mg/m<sup>3</sup>

**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:** LC<sub>50</sub> (96h) 48 mg/L (Rainbow trout *Oncorhynchus mykiss*)  
The value mentioned relates to the active ingredient.

**Toxicity to aquatic invertebrates:** EC<sub>50</sub> (48h) >14 mg/L (Water flea *Daphnia magna*)  
The value mentioned relates to the active ingredient.

**Toxicity to aquatic plants:** IC<sub>50</sub> >18 mg/L (*Desmodium 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.

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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: 51508.

**16. OTHER INFORMATION**

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

**Preparation information:** Replaces edition March 31<sup>st</sup>, 2011.  
Minor updates required.

**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