Bayer Environmental Science
Material Safety Data Sheet
Racumin® 8 Rat and Mouse Rodenticide

Version / AUS
102000006466

Print Date: 15.09.2011

SECTION 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product name:	**Racumin® 8 Rat and Mouse Rodenticide**
Other names:	None
Product code (UVP):	00864870
Recommended use:	Rodenticide
Chemical formulation:	Technical concentrate (TK)
Company:	Bayer Environmental Science A Business Operation of Bayer CropScience Pty Ltd ABN 87 000 226 022 391-393 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:	(03) 9248 6888 Technical Manager
Emergency telephone no.:	1800 033 111 Orica SH&E Shared Services

SECTION 2. HAZARDS IDENTIFICATION

Emergency Overview

NON-HAZARDOUS SUBSTANCE NON-DANGEROUS GOODS

Hazardous classification:	Non-Hazardous (National Occupational Health and Safety Commission - NOHSC)
R-phrase(s):	R21/22 - Harmful in contact with skin and if swallowed.
S-phrase(s):	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. - See Section 14.
SUSMP classification (Poison Schedule):	Schedule 6 (Standard for the Uniform Scheduling of Medicines and Poisons).

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature: Coumatetralyl 8g/kg

Chemical Name	CAS-No.	Concentration [%]
Coumatetralyl	5836-29-3	0.80
Talc (asbestos free, less than 1 % crystalline silica)	14807-96-6	97.80
Other ingredients (non-hazardous) to 100 %		

SECTION 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 the doctor.

Inhalation
Move the victim to fresh air and keep at rest. If symptoms persist, call a physician.

Skin contact
Wash off thoroughly with plenty of soap and water, if available with polyethyleneglycol 400, subsequently rinse with water.

Eye contact
Hold eye open and rinse slowly and gently with water for 15-20 minutes.

Ingestion
If swallowed, seek medical advice immediately and show this container or label.

Notes to physician

Symptoms
Ingestion may provoke the following symptoms: Blood disorders, nose bleeding, gum bleeding, bloody vomiting, bruising and haemorrhage formation .

Treatment
Treat symptomatically.
Gastric lavage is not normally required. However, if a significant amount (more than a mouthful) has been ingested, administer activated charcoal and sodium sulphate.
Antidote: Vitamine K1. Cases of severe poisoning may require the usual measures like application of blood products or transfusions.

SECTION 5. FIRE FIGHTING MEASURES

Suitable extinguishing media
Water spray
Carbon dioxide (CO_2)
Foam
Sand

Hazards from combustion products
Accumulation of fine dust may entail the risk of a dust explosion in the presence of air.
In the event of fire the following may be released:
Carbon monoxide (CO)

Precautions for fire-fighting
Wear self-contained breathing apparatus and protective suit.
Evacuate personnel to safe areas.
Fight fire from upwind position.
Whenever possible, contain fire-fighting water by diking area with sand or earth.
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions

An emergency shower must be readily accessible to the work area.
Use personal protective equipment.
Avoid contact with spilled product or contaminated surfaces.
Keep people away from and upwind of spill/leak.
Do not breathe dust.

Methods for cleaning up

Dike area to prevent runoff.
Collect and transfer the product into a properly labelled and tightly closed container.
Clean with detergents. Avoid solvents.

SECTION 7. HANDLING AND STORAGE

Handling

Hygiene measures:
Avoid contact with skin, eyes and clothing.

Storage

Requirements for storage areas and containers:
Keep out of the reach of children.
Keep containers tightly closed in a dry, cool and well-ventilated place.
Keep away from direct sunlight.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Control parameters	Update	Basis
Talc (asbestos free, less than 1 % crystalline silica)	14807-96-6	2.5 mg/m^3 (TWA)	08 2005	AU OEL

For further details on the Occupational Exposure Standards, see Section 16.

Personal protective equipment - End user

Hand protection: Elbow-length PVC or nitrile gloves.
Wash gloves when contaminated. Dispose of when contaminated inside, when perforated or when contamination outside cannot be removed.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form: Powder
Colour: Violet
Odour: No data available

Safety data

pH:	No data available
Flash point:	No data available
Ignition temperature:	No data available
Upper explosion limit:	No data available
Lower explosion limit:	No data available
Vapour pressure:	No data available
Relative vapour density:	No data available
Density:	No data available
Bulk density:	ca. 1,000 kg/m^3
Water solubility:	No data available
Partition coefficient: n-octanol/water:	No data available

SECTION 10. STABILITY AND REACTIVITY

Conditions to avoid:	Exposure to moisture. Elevated temperatures.
Materials to avoid:	Strong oxidizing agents.
Hazardous decomposition products:	Carbon monoxide.

SECTION 11. TOXICOLOGICAL INFORMATION

Potential health effects

Inhalation:	Toxic by inhalation.
Skin:	May cause skin irritation. Harmful if absorbed through skin.
Eye:	May cause eye irritation.
Ingestion:	Harmful if swallowed.
Acute oral toxicity:	LD_{50} (rat) 16.5 mg/kg The value mentioned relates to the active ingredient coumatetralyl.
Acute inhalation toxicity:	LC_{50} (rat) 39 mg/L Exposure time: 4 h The value mentioned relates to the active ingredient coumatetralyl.
Acute dermal toxicity:	LD_{50} (rat) 100-500 mg/kg The value mentioned relates to the active ingredient coumatetralyl.

Skin irritation:	No skin irritation. The value mentioned relates to the active ingredient coumatetralyl.
Eye irritation:	No eye irritation. The value mentioned relates to the active ingredient coumatetralyl.
Sensitisation:	Non-sensitizing. The value mentioned relates to the active ingredient coumatetralyl.
Chronic toxicity:	Because of anti-vitamin K properties of the active ingredient, absorption can inhibit blood coagulation and cause haemorrhagic syndrome.

Assessment mutagenicity
Coumatetralyl was not mutagenic or genotoxic in a battery of in vitro and in vivo tests.

Assessment carcinogenicity
Coumatetralyl is not considered carcinogenic.

Assessment toxicity to reproduction
Coumatetralyl is not considered a reproductive toxicant at non-maternally toxic dose levels.

Assessment developmental toxicity
Coumatetralyl was not a developmental toxicant in rats and rabbits.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity effects

Toxicity to fish:	LC_{50} (Rainbow trout (*Oncorhynchus mykiss*)) 48 mg/L Exposure time: 96 h The value mentioned relates to the active ingredient coumatetralyl.
Toxicity to aquatic invertebrates:	EC_{50} (Daphnia) > 48 mg/lL Exposure time: 48 h The value mentioned relates to the active ingredient coumatetralyl.
Toxicity to aquatic plants	EC_{50} (Algae) > 18 mg/L The value mentioned relates to the active ingredient coumatetralyl.
Toxicity to other organisms	LD_{50} (Japanese quail (*Coturnix japonica*)) > 2000 mg/kg bw The value mentioned relates to the active ingredient coumatetralyl.

SECTION 13. DISPOSAL CONSIDERATIONS

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.

SECTION 14. TRANSPORT INFORMATION

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

SECTION 15. REGULATORY INFORMATION

Registered according to the Agricultural and Veterinary Chemicals Code Act 1994.

Australian Pesticides and Veterinary Medicines Authority approval number: 52182.

See also Section 2.

SECTION 16. OTHER INFORMATION

Trademark information
Racumin® is registered trademark of Bayer.

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.

Further details on the Occupational Exposure Standards mentioned in Section 8:
CEILING: Ceiling Limit Value
OES BCS: Internal Bayer CropScience "Occupational Exposure Standard"
PEAK: Exposure Standard - Peak means a maximum or peak airborne concentration of a particular substance determined over the shortest analytically practicable period of time which does not exceed 15 minutes.
STEL: Exposure standard - short term exposure limit (STEL): A 15 minute TWA exposure which should not be exceeded at any time during a working day even if the eight-hour TWA average is within the TWA exposure standard. Exposures at the STEL should not be longer than 15 minutes and should not be repeated more than four times per day. There should be at least 60 minutes between successive exposures at the STEL.
SKIN_DES: Skin notation: Absorption through the skin may be a significant source of exposure.
TWA: Exposure standard - time-weighted average (TWA): The average airborne concentration of a particular substance when calculated over a normal eight-hour working day, for a five-day working week.

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

END OF MSDS