

MATERIAL SAFETY DATA SHEET

Rodilon Professional Rodenticide

Date of Issue: January 7th, 2008

1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND SUPPLIER

Product name: **Rodilon Professional Rodenticide**
Other names: None
Product code:
Recommended use: Ready-to-use rodenticide bait for rodent 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 6888
Emergency
Telephone Number: 1800 033 111 – Orica SH&E Shared Services

2. HAZARDS IDENTIFICATION

NON-HAZARDOUS SUBSTANCE - NON-DANGEROUS GOOD

Hazard designation: Non-hazardous
Risk phrases: Not applicable
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):
Difethialone	[104653-34-1]	0.025
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:** Presentation as a soft paste bait means inhalation is unlikely
- Skin contact:** Wash skin with soap and water
- Eye contact:** Hold eyes open and flush with clean water for at least 15 minutes.
- Ingestion:** If poisoning via the oral route occurs seek immediate medical advice. Do not induce vomiting. Wash out mouth with water.
- First Aid Facilities:** Provide washing facilities in the workplace (including eye-wash).
- Symptoms:** Symptoms of overexposure relate to failure of the blood clotting mechanism and include bleeding gums and failure of blood clotting after skin wounds. Other symptoms may include shock, nose bleeding, bloody vomiting, abdominal pain and back pain.
- Medical attention:** If poisoning occurs apply basic aid and decontamination procedures. Consideration should be given to 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.

5. FIRE FIGHTING MEASURES

- Extinguishing media:** Water spray, carbon dioxide, sand or foam
- Hazards from combustion products:** In the event of fire, the formation of carbon monoxide must be anticipated. Do not breathe fumes.
- 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 eg., ABEK-P2 (offers no protection from carbon monoxide).
Enclosed premises: wear respirator with independent air supply.
Contain fire-fighting water.

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6. ACCIDENTAL RELEASE MEASURES

After spillage/leakage:

The nature of this product, when contained in commercial packs, makes spillage unlikely. However, if significant amounts are spilled, the following advice is applicable. Avoid contact with spilled product. Take up with absorbent material (e.g. sand, earth or a proprietary absorbent material). Clean contaminated floors and objects thoroughly, observing environmental regulations. Pack spilled material in suitable containers for recovery or disposal.

7. HANDLING AND STORAGE

Handling: Keep out of reach of children. Poisonous if swallowed. Will irritate the eyes. Repeated minor exposure may have a cumulative effect. Avoid contact with eyes and skin. Do not touch bait.

Storage: Store product in the closed, original container in a dry, cool, well-ventilated area. Do not store for prolonged periods in direct sunlight. Store away from food, drink or animal feeding stuffs.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure standards: NOHSC exposure standards have not been established for the active constituent or any inert ingredient in this formulation.

Engineering controls: No engineering controls are required for normal use of this product according to label

Personal Protective Equipment: It is recommended to wear gloves during handling.
If product on skin and after each baiting, wash thoroughly with soap and water.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Soft blue paste enclosed in a tea-bag like sachet
Odour: Slight characteristic smell
Vapour pressure: 0.074 mPa (25°C) (difethialone)
Vapour density: Not relevant.
Boiling point: Not relevant.
Melting point: >200 °C
Solubility in water: 0.39 mg/L at 25°C (difethialone)

Density: 1.15 g/mL
pH: 6.5 – 8 (1% suspension in water at 20 °C)
Flash Point: Not relevant
Flammability (explosive) limits: Not explosive
Auto-ignition temperature: Not flammable
Octanol/water partition coefficient: $\log P_{OW} = 5.17$ (difethialone)
Formulation: Ready to use bait

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10. STABILITY AND REACTIVITY

Chemical stability:	Stable under normal conditions of use.
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: carbon monoxide may be released.

11. TOXICOLOGICAL INFORMATION

POTENTIAL HEALTH EFFECTS

Inhalation:	The nature of this product makes inhalation unlikely
Skin contact:	Not a skin irritant
Eye contact:	Mildly irritating to the eyes due to solid nature of the product
Ingestion:	Refer below.
Other:	Difethialone is a second generation anticoagulant. Symptoms of overexposure relate to failure of the blood clotting mechanism and include bleeding gums and failure of blood clotting after skin wounds.

ANIMAL TOXICITY DATA – PRODUCT:

Acute:

Oral toxicity:	Acute oral LD ₅₀ : Rat >2500 mg/kg
Dermal toxicity:	Acute dermal LD ₅₀ : Rat >2000 mg/kg
Inhalation toxicity:	Unlikely to be inhaled due to nature of product
Skin irritation:	Product is not classified as a skin irritant
Eye irritation:	Product is mildly irritating to the eyes due to its solid nature
Sensitisation:	Product is not classified as a skin sensitiser

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Chronic:

Animal studies show no evidence of carcinogenic or teratogenic effects.

12. ECOLOGICAL INFORMATION

Fish toxicity:	LC ₅₀ (96h) 51 µg/L for rainbow trout, 75 µg/L for bluegill sunfish (difethialone)
Daphnia toxicity:	EC ₅₀ (48h) 4.4 µg/L (difethialone)
Toxicity to algae:	IC ₅₀ (72h) for <i>Desmodesmus subspicatus</i> > 1.000 mg/L
Bird toxicity:	Acute oral LD ₅₀ for bobwhite quail 0.264 mg/kg (difethialone) LC ₅₀ (5 d) for bobwhite quail 0.56 ppm; (30 d) for mallard ducklings 1.94 ppm (difethialone)
Bee toxicity:	Not available
Environmental fate, persistence and degradation:	Binds strongly to soil. Classified as immobile in soil.

13. DISPOSAL CONSIDERATIONS

- 1) After intended use: If possible, use all the bait at the baiting site according to label directions. 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: If use not possible, 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

Australian Pesticides and Veterinary Medicines Authority Approval Number: 61167

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16. OTHER INFORMATION

Trademark information: Rodilon is a Registered Trademark of Bayer.

Preparation information: First edition.

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