

## MATERIAL SAFETY DATA SHEET

# KILL ALL RAT & MOUSE PELLETS

Revision date: March 2009

### 1. COMPOSITION AND PRODUCT IDENTIFICATION

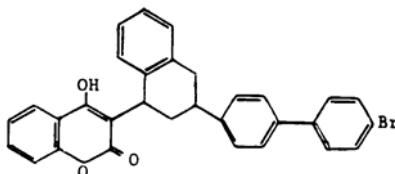
**Product name:** Kill All Rat & Mouse Pellets

**Active substance**

**Common name:** Brodifacoum

**IUPAC name:** 3-(3-(4'-bromobiphenyl-4-yl)-1,2,3,4-tetrahydro-1-naphthyl)-4-hydroxycoumarin

**Structural formula:**



**Chemical group:** Bromylated coumarin compound

**CAS No:** 56073-10-0

**Primary use:** Rodenticide bait

**Supplier:** Almond Agrochemicals  
88 Forrest Road  
PO Box 783703  
Sandton 2146  
South Africa

### 2. COMPOSITION / INFORMATION ON INGREDIENTS

Component	% w/w	Symbol	Risk phrases
Brodifacoum	0.002	T <sup>+</sup> , N	R27/28, R48/24/25, R50/53
Embittering agent	<0.01	Xn	R20/22, R38, R41, R52/53

See section 16 for full explanation of risk factors

**Appearance:** Blue cylindrical pellets

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### 3. HAZARDS IDENTIFICATION

The preparation is non-dangerous in accordance with Directive 1999/45/EC. It is unlikely to cause harmful effects under normal conditions of handling and use. Harmful to Wildlife. Wild mammals and birds may be at greater risk if the product is not used in accordance with its label.

### 4. FIRST AID MEASURES

- Skin contact:** May cause skin irritation in susceptible persons. Remove contaminated clothing, wash off immediately with soap and plenty of water. If irritation persists, obtain medical attention. Contaminated clothing should be washed before re-use.
- Eye contact:** May cause eye irritation in susceptible persons. Rinse immediately with plenty of water and seek medical advice.
- Inhalation:** Unlikely to present an inhalation hazard unless excessive dust is present. Move to fresh air. Obtain medical attention immediately.
- Ingestion:** If swallowed, seek medical advice immediately and show this container or label.
- General advice:** In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). **ADVICE FOR DOCTORS:** Brodifacoum is an indirect anticoagulant. Phytomenadione, Vitamin K1, is antidotal. Determine prothrombin times not less than 18 hours after consumption. If elevated, administer Vitamin K1 until prothrombin time normalises. Continue determination of prothrombin time for two weeks after withdrawal of antidote and resume treatment if elevation occurs in that time.

### 5. FIRE FIGHTING MEASURES

- Extinguishing media:** Keep fire exposed containers cool by spraying with water if exposed to fire. Carbon Dioxide (CO<sub>2</sub>), alcohol resistant foam, water spray mist or foam.  
**DO NOT USE WATER JETS**
- Specific hazards:** Toxic fumes will be produced in a fire.
- Special equipment for firefighters:** In the event of a fire, wear self-contained breathing apparatus, suitable gloves and boots.



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## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions:** Wear suitable protective clothing, gloves and eye/face protection. See section 8

**Environmental precautions:** Prevent further leakage or spillage if safe to do so.

**Methods of cleaning up:** Clean promptly by sweeping or vacuum. Transfer to a suitable labelled container. Subsequently, wash the contaminated area with water, taking care to prevent the washings entering sewers or drains.

## 7. HANDLING AND STORAGE

**Handling:** Avoid contact with skin and eyes. Avoid dust formation. Do not smoke eat or drink while handling this product. Always use good personal hygiene procedures when handling chemicals. Wash hands and face before eating, drinking or smoking. Read the label before use

**Storage:** Keep in a cool, well-ventilated, place. Keep out of reach of children. Keep away from food and animal feedstuffs. Keep away from oxidising agents.

## 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

**Respiratory protection:** Unlikely to present an inhalation hazard unless excessive dust is present. Suitable approved respiratory protection should be worn.

**Hand protection:** Impervious gloves.

**Eye protection:** Tight fitting goggles if exposed to excessive dust.

**Skin and body protection:** Impervious clothing, boots.

## 9. PHYSICAL / CHEMICAL PROPERTIES

**Description:** Extruded grain-based pellet

**Colour:** Blue

**Odour:** Slight

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## 10. STABILITY AND REACTIVITY

- Stability:** Stable at room temperature.
- Conditions to avoid:** Heat, flames and sparks
- Materials to avoid:** Oxidising agents
- Hazardous decomposition products:** Combustion or thermal decomposition will produce toxic and irritant fumes.

## 11. TOXICOLOGICAL INFORMATION

- Acute toxicity:** Oral LD<sub>50</sub> approx 10g/kg  
(Oral LD<sub>50</sub> technical material ca. 0.27 mg/kg)
- Dermal toxicity:** Dermal LD<sub>50</sub> approx 10g/kg  
(Dermal LD<sub>50</sub> technical material ca. 0.25 mg/kg)
- Primary irritation:** Mild eye irritation. No skin irritation
- Sensitisation:** Grain dust and flour dust from the formulation components are respiratory sensitisers, causing asthma. In the pelleted form dust should be minimal and unlikely to cause problems.
- Mutagenic effects:** No evidence to suggest anticoagulant rodenticides are mutagenic.
- Carcinogenic effects:** No evidence to suggest anticoagulant rodenticides are carcinogenic.

## 12. ENVIRONMENTAL INFORMATION

As the product contains 20ppm brodifacoum, unlikely to be hazardous to aquatic life. Harmful to wildlife. Read all precautions before use.

## 13. DISPOSAL CONSIDERATIONS

- General information:** Dispose of in accordance with local regulations.
- Contaminated packaging:** Dispose of as unused product.



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#### 14. TRANSPORTATION INFORMATION

**ADR/RID/IMO/IATA:** Not classified as dangerous for transport

#### 15. REGULATORY INFORMATION

**Labelling:** The preparation is non-dangerous in accordance with Directive 1999/45/EC. It has been labelled in accordance with those regulations.

#### 16. OTHER INFORMATION

**R-phrases from  
Section 2:**

R20/22 – Harmful if inhaled or swallowed  
R27/28 – Very toxic in contact with the skin and if swallowed.  
R38 – Skin Irritant  
R41 – Severe eye irritant  
R48/24/25 – Toxic: danger of serious damage to health by prolonged exposure in contact with the skin and if swallowed  
R50/53 – Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
R52/53 – Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

No liability is accepted for any injury, loss, damage or cost arising directly or indirectly from the use of the product or from the use of information contained within the safety data sheet since the customer's treatment of the product is necessarily beyond our control. The supplied data are based on current knowledge and experience. This safety data sheet is intended to describe our product in terms of safety requirements. The customer should determine by appropriate trials that the product is suitable for his intended use.