

## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Product Name:** TALON RAT AND MOUSE KILLER

**Recommended Use:** Rodenticide.

**Supplier:** Selleys Australia, a division of DuluxGroup (Australia) Pty Ltd  
**ABN:** 67 000 049 427  
**Street Address:** 1 Gow Street,  
Padstow, NSW 2211  
Australia  
**Telephone Number:** +61 2 9781 8777  
**Facsimile:** +61 2 9781 8825  
**Emergency Telephone:** **1 800 033 111 (ALL HOURS)**

## 2. HAZARDS IDENTIFICATION

Based on available information, not classified as hazardous according to criteria of Safe Work Australia; NON-HAZARDOUS SUBSTANCE.

Not classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for transport by Road and Rail; NON-DANGEROUS GOODS.

**Poisons Schedule:** S6 Poison.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Product Description:** Product contains a bittering agent.

Components	CAS Number	Proportion	Risk Phrases
Food base (wheat)	-	>60%	-
Bittering agent	-	<1%	-
Brodifacoum	56073-10-0	0.05 g/kg	R27/28, R48/24/25, R50/53
Ingredients determined not to be hazardous	-	to 100%	-

## 4. FIRST AID MEASURES

For advice, contact a Poisons Information Centre (e.g. phone Australia 131 126; New Zealand 0800 764 766) or a doctor.

### Inhalation:

Remove victim from area of exposure - avoid becoming a casualty. Seek medical advice if effects persist.

### Skin Contact:

If skin contact occurs, remove contaminated clothing and wash skin with running water. If irritation occurs seek medical advice.

### Eye Contact:

If in eyes, wash out immediately with water. In all cases of eye contamination it is a sensible precaution to seek medical advice.

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## Ingestion:

### HUMAN:

Rinse mouth with water. If swallowed, give a glass of water to drink. If vomiting occurs give further water. Seek medical advice.

### DOMESTIC ANIMALS:

- Severe signs of poisoning - Immediately transport to a veterinarian.
- Early signs of poisoning - Transport to a veterinarian.
- No signs, but suspected bait consumption - Induce vomiting only if ingestion is recent (less than 6 hours). Make up a solution of salty water (2-3 tablespoons of salt per cup of water), place in a soft drink bottle and squirt down the animals throat. Vomiting should take place in approximately 10 minutes. Seek veterinarian advice.

## Medical attention and special treatment:

Treat symptomatically. Brodifacoum is a coumarin anticoagulant. Like warfarin it interferes with the synthesis of prothrombin, disturbing the normal clotting mechanisms and causing an increased tendency to bleed. As a result the effect may be delayed.

HUMAN: Continued administration of Vitamin K1 for periods of several weeks with regular monitoring of the coagulation parameters is necessary. In the early phase of the poisoning, infusion of fresh-frozen plasma is advisable.

### DOMESTIC ANIMALS EXHIBITING SIGNS OF INTOXICATION:

1. Carry out a prothrombin test. Administer parentally 2-5 mg/kg of Vitamin K1. Use the smallest diameter needle feasible and avoid the intravenous route in severely haemorrhagic animals.
2. Repeat prothrombin test about 4 hours after injection. Provided that the prothrombin time has normalised, start daily oral Vitamin K1 treatment and continue for 3-4 weeks.
3. Carry out a prothrombin test 24-48 hours after end of treatment. Continue treatment if signs of poisoning reappear or if prothrombin time is still abnormal.

### DOMESTIC ANIMALS SUSPECTED OF CONSUMING BAIT:

1. Test prothrombin time daily for up to 3 days after suspected date of ingestion.
2. Treat with Vitamin K1 if signs of poisoning appear or if prothrombin time increases.
3. Prophylactic oral Vitamin K1 treatment could be carried out.

Poison Information Centres in each State capital city can provide additional assistance. Refer to 'The Treatment of Anticoagulant Rodenticide Poisoning' (1998 or later edition), available at most major treatment hospitals or Poisons Information Centre.

## 5. FIRE FIGHTING MEASURES

### Hazards from combustion products:

Combustible solid.

### Precautions for fire fighters and special protective equipment:

On burning will emit toxic fumes. Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to vapour or products of combustion.

### Suitable Extinguishing Media:

Fine water spray, normal foam, dry agent (carbon dioxide, dry chemical powder).

## 6. ACCIDENTAL RELEASE MEASURES

### Emergency procedures:

If contamination of sewers or waterways has occurred advise local emergency services.

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## Methods and materials for containment and clean up:

**SMALL SPILLS:** Wear protective equipment to prevent skin and eye contact. Collect and seal in properly labelled containers for disposal or re-use.

**LARGE SPILLS:** Wear protective equipment to prevent skin and eye contact. Cover with damp absorbent (inert material, sand or soil). Sweep or vacuum up, but avoid generating dust. Collect and seal in properly labelled containers, bags or drums for disposal or re-use. If contamination of sewers or waterways has occurred advise local emergency services.

## 7. HANDLING AND STORAGE

This material is a Scheduled Poison S6 and must be stored, maintained and used in accordance with the relevant regulations.

### Conditions for safe storage:

Containers which have held bait should not be used for any other purpose. Store in original containers, tightly closed, in a dry, safe place out of reach of children. Do not store in direct sunlight.

### Precautions for safe handling:

Keep out of reach of children. Avoid skin and eye contact.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Occupational Exposure Limits:** No value assigned for this specific material by the National Occupational Health and Safety Commission. However, supplier recommended Exposure Standard(s):

Brodifacoum: 8hr TWA = 0.002 mg/m<sup>3</sup>

TWA - The time-weighted average airborne concentration over an eight-hour working day, for a five-day working week over an entire working life.

These Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as is workable. These exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

If the directions for use on the product label are followed, exposure of individuals using the product should not exceed the above standard. The standard was created for workers who are routinely, potentially exposed during product manufacture.

### Engineering controls:

Natural ventilation should be adequate under normal use conditions. Keep containers closed when not in use.

### Personal Protective Equipment:

Selleys Factory Safe Handling Code: Green



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MANUFACTURE, PACKAGING AND TRANSPORT: Green - Wear overalls (or 'issued' long pants and long sleeve tops), safety boots, gloves and safety glasses. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use.

FOR CONSUMER USE: Do not inhale dust. Do not touch the bait, use scoop or measure. If on skin and after each baiting, wash thoroughly with soap and water.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Pellets
Colour:	Green
Odour:	Odourless
Solubility:	Insoluble in water.
Specific Gravity:	N Av
Relative Vapour Density (air=1):	N App
Vapour Pressure (20 °C):	N App
Flash Point (°C):	N App
Flammability Limits (%):	N App
Autoignition Temperature (°C):	N App
% Volatile by Weight:	N Av
Solubility in water (g/L):	N Av
Melting Point/Range (°C):	N Av
Boiling Point/Range (°C):	N App
Decomposition Point (°C):	N Av
Sublimation Point (°C):	N App
pH:	N App
Viscosity:	N App
Partition Coefficient:	LogPow (Brodifacoum): 8.5

## 10. STABILITY AND REACTIVITY

Chemical stability:	Product is stable for at least 2 years under ambient storage conditions.
Conditions to avoid:	Avoid dust generation. Avoid contact with foodstuffs. Avoid exposure to heat.
Incompatible materials:	None known.
Hazardous decomposition products:	Oxides of carbon. Hydrogen bromide.
Hazardous reactions:	Hazardous polymerisation will not occur.

## 11. TOXICOLOGICAL INFORMATION

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

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**Ingestion:** Typical features of brodifacoum poisoning result from an increased tendency to bleed and are dependent upon the degree of exposure:  
MILD - reduction in the clotting power of blood, detectable only by laboratory analysis.  
MODERATE - symptoms include bleeding gums, increased tendency to bruise, blood in faeces and urine or excessive bleeding from minor cuts or abrasions.  
SEVERE - severe gastrointestinal bleeding, massive internal bleeding resulting in shock, coma and death in very severe cases.

**Eye contact:** Exposure to the dust may cause discomfort due to particulate nature. May cause physical irritation to the eyes.

**Skin contact:** Not expected to be a skin irritant.

**Inhalation:** Breathing in dust may result in respiratory irritation.

**Long Term Effects:**  
No long term risks to humans are associated with this material when handled and used as directed on the label.

**Toxicological Data:** No LD50 data available for the product. For the constituent BRODIFACOUM:

Oral LD50 (rat): 0.27 mg/kg.  
Oral LD50 (mice): 0.25-1.0 mg/kg.  
LD50 data for domestic animals include - Oral LD50 (dog): 0.25-1.0 mg/kg.  
Oral LD50 (cat): 25 mg/kg.

Studies in rats and rabbits indicate that this material accumulates in body tissues, principally in the liver and has a very long half-life (150-200 days in rats dosed with 0.25 mg/kg). Thus, in humans, there is a potential for accumulation of small amounts over a long period of time leading to toxic levels within the body.

ADI (Acceptable Daily Intake) for humans is 0.0000005 mg/kg bw/day.

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity** Avoid contaminating waterways.  
For BRODIFACOUM:

**Persistence/degradability and mobility** Brodifacoum is slowly degraded in soils under aerobic and flooded conditions. The half life in soils is greater than 12 weeks. It is unlikely to leach to groundwater.

**Aquatic toxicity:** Very toxic to aquatic organisms. Risk of bioaccumulation in an aquatic species is high.

Log Octanol/Water Partition Coefficient: 8.5

48hr LC50 (Daphnia magna): 0.34 mg/L  
96hr LC50 (rainbow trout): 0.051 mg/L.  
96hr LC50 (bluegill sunfish): 0.165 mg/L.

**Terrestrial toxicity:** Toxic to terrestrial species.  
Oral LD50 (mallard duck): 0.31 mg/kg.

## 13. DISPOSAL CONSIDERATIONS

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## Disposal methods:

Refer to Waste Management Authority. Dispose of empty containers and unused or untaken baits by burying in an approved dump.

## 14. TRANSPORT INFORMATION

### Road and Rail Transport

Not classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for transport by Road and Rail; NON-DANGEROUS GOODS.

### Marine Transport

Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea; NON-DANGEROUS GOODS.

### Air Transport

Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air; NON-DANGEROUS GOODS.

## 15. REGULATORY INFORMATION

**Classification:** Based on available information, not classified as hazardous according to criteria of Safe Work Australia; NON-HAZARDOUS SUBSTANCE.

**Poisons Schedule:** S6 Poison.

## 16. OTHER INFORMATION

(1) Supplier Material Safety Data Sheet; 06/ 2008.

For further copies of this sheet or other product information contact Selleys Customer Service.

Phone: 1300 555 205 (Australia wide)

Fax: 1300 555 305 (Australia wide)

Phone: 0800 735 539 (New Zealand)

Fax: 0800 804 583 (New Zealand)

### Reason(s) for Issue:

5 Yearly Revised Primary SDS

This safety data sheet has been prepared by SH&E Shared Services.

This SDS summarises to our best knowledge at the date of issue, the chemical health and safety hazards of the material and general guidance on how to safely handle the material in the workplace. Since DuluxGroup Limited cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, assess and control the risks arising from its use of the material.

If clarification or further information is needed, the user should contact their DuluxGroup representative or DuluxGroup Limited at the contact details on page 1.

DuluxGroup Limited's responsibility for the material as sold is subject to the terms and conditions of sale, a copy of which is available upon request.

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