

Safety Data Sheet

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product name: Pestmaster Rat & Mouse Killer

Chemical Nature: Rodenticide pellets containing brodifacoum for controlling rats and mice.

Supplier: Triox Pty Ltd
ABN: 72 068 066 446
Street Address: 6/707 Mt Alexander Rd
Moonee Ponds VIC 3039
Australia
Telephone: + 61 3 9372 9977
Facsimile: + 61 3 3972 9988

Emergency telephone number: (03) 9372 9977 Monday to Friday 9am to 5pm
Poisons Information Centre: 13 1126 Australia

2. HAZARDS IDENTIFICATION

This product is classified as: Xn, Harmful. N, Dangerous to the environment. Hazardous according to the criteria of SWA.

Not classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for transport by road or rail.

Risk Phrases: R22, R33, R52. Harmful if swallowed. Danger of cumulative effects. Harmful to aquatic organisms.

Safety Phrases: S20, S23, S36 When using, do not eat or drink. Do not breath dusts. Wear suitable protective clothing. Avoid contact with skin and eyes.

SUMP Classification: S6

UN Number: None allocated.

GHS Signal Word: WARNING

HAZARD STATEMENT:

H302: Harmful if swallowed

H373: May cause damage to organs through prolonged or repeated exposure.

H402: Harmful to aquatic life.

PREVENTION:

P102: Keep out of reach of children.

P260: Do not breath dusts.

P262: Do not get in eyes, on skin, or on clothing.

P264: wash contacted areas thoroughly after handling.

P273: Avoid release to the environment.

P281: Use personal protective equipment as required.

RESPONSE:

P314: Get medical advice or attention if unwell.

P352: Wash with plenty of soap and water.

P301+P312: IF SWALLOWED: Call a Poison Centre or doctor if you feel unwell.

P301+P330+P331: IF SWALLOWED: Rinse mouth. DO NOT induce vomiting.

P370+P378: In case of fire, use carbon dioxide, dry chemical, foam, water fog.

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STORAGE:

P410: Protect from sunlight.

P402+P404: Store in a dry place. Store in a closed container.

P403+P235: Store in a well ventilated place. Keep cool.

DISPOSAL:

P501: Dispose of small quantities and empty containers by wrapping with paper and putting in garbage.

Emergency Overview:

Physical Description & Colour: Green pellets.

Odour: Mild flour odour

Major Health Hazards: Ingestion of brodifacoum is initially asymptomatic, and may continue as such even with prolonged alterations in prothrombin time. No gastrointestinal tract or other symptomatology occurs. Coagulation disturbances may become evident a few days after ingestion, and may be detected only by laboratory studies. In severe poisoning, gum bleeding, epistaxis, petechiae, ecchymoses, haematomata, blood in urine and faeces, and genital haemorrhage may occur. Internal bleeding and cerebral haemorrhage may complicate the patient's prognosis. Danger of cumulative effects, harmful if swallowed.

3. COMPOSITION INFORMATION

Appearance: Green pellets.

CHEMICAL	CAS NO.	Conc, %
Brodifacoum	56073-10-0	0.05g/kg
Denatonium Benzoate	3734-33-6	<1g/kg
Other non hazardous materials	secret	to 100%

No TWA or STEL exposure values have been set.

4. FIRST AID MEASURES

Poison Information Centres in each State capital city can provide additional assistance (13 1126).

Vitamin K is antidotal.

Ingestion: If swallowed, **do not** induce vomiting. Rinse mouth with water. Seek medical advice.

Eye contact: Quickly and gently brush particles from eyes. First aid is not generally required. If in doubt contact a Poison Information Centre.

Skin contact: Gently brush away excess particles. Irritation is unlikely however, if irritation does occur wash under warm water for 5 minutes.

Inhalation: First aid is not generally required.

Notes to physician: Administer Vitamin K intramuscularly or orally for several weeks with regular monitoring of the coagulation parameters and prothrombin times.

5. FIRE-FIGHTING MEASURES

Fire and explosion hazards: The major hazard in fires is usually the inhalation of heated and toxic or oxygen deficient fire gases. There is no risk of an explosion from this product under normal circumstances if it is involved in a fire. Violent steam generation or eruption may occur upon application of direct water stream on hot liquids.

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Fire decomposition products from this product may be toxic if inhaled. Take appropriate protective measures.

Suitable extinguishing media: In case of fire, use carbon dioxide, dry chemical, foam, water fog.

Fire fighting further advice: If a significant quantity of this product is involved in a fire, call the fire brigade.

6. ACCIDENTAL RELEASE MEASURES

This product is sold in small packages, and the accidental release from one of these is not usually a cause for concern.

Wear protective equipment to prevent skin and eye contamination. Contain spill, sweep up and shovel or collect recoverable product into labelled containers for recycling or salvage, and dispose of promptly.

7. HANDLING AND STORAGE

Handling: Keep exposure to this product to a minimum, and minimise the quantities kept in work areas. Check Section 8 of this SDS for details on personal protective measures and make sure those measures are followed.

Storage: This product is a scheduled poison. Store in the closed original container in a dry, cool, well-ventilated area out of direct sunlight. Store in a locked room or place away from children, animals, food and feedstuffs. Keep container closed at all times – check regularly for leaks.

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

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

The following Australian Standards will provide general advice regarding safety clothing and equipment.

Respiratory Equipment: **AS/NZS 1715**, Protective Gloves: **AS 2161**, Occupational Protective Clothing: **AS/NZS 4501 set 2008**, Industrial Eye Protection: **AS1336 and AS/NZS 1337**, Occupational Protective Footwear: **AS/NZS 2210**.

National occupational exposure limits

No values assigned for TWA and STEL for this specific material, by SWA.

TWA – the Time Weighted Average airborne concentration over an eight-hour working day, for a five day working week over an entire working life.

The ADI(Acceptable Daily Intake) for Brodifacoum is set at 0.0000005mg/kg/day. The corresponding NOEL is set at 0.001mg/kg/day. NOEL means No-observable-effect-level. Data from Australian ADI list, June 2014.

No special equipment is required when handling small quantities of product. The following instructions are for handling bulk quantities of the product or where regular exposure in an occupational setting occurs without proper containment systems.

Ventilation measures: Natural ventilation should be adequate under normal use conditions. Keep containers closed when not in use. Minimise dusts.

Personal protection equipment: OVERALLS, SAFETY SHOES, SAFETY GLASSES, GLOVES (S).

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Avoid skin and eye contact and inhalation of mist. Wear overalls, safety glasses and impervious gloves. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using. If risk of inhalation of mist exists wear combined organic vapour/particulate respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716.

Respirator: if there is a significant chance that dusts are likely to build up in the area where this product is being used, we recommend that you use a suitable dust mask.
Safety deluge showers should, if practical, be provided near to where this product is being handled commercially.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form / Colour / Odour: Green pellets with a mild flour type odour.

Solubility: Insoluble

Specific Gravity (20 C)	:	N App	Melting Point (C)	:	N App
Rel Vapour Density (air=1)	:	N Av	Boiling Point (C)	:	N Av
Vapour Pressure (20 C)	:	N Av	Decomp. Point (C)	:	N App
Flash Point (C)	:	N Av	Sublimation Point	:	N App
Flammability Limits (%)	:	N Av	pH	:	N Av
Autoignition Temp (C)	:	N App	Viscosity	:	N Av
% Volatile by volume	:	N Av	Evaporation Rate	:	N Av
Solubility in water(17 C)	:	N App	(n-Butyl acetate=1)		

(Typical values only - consult specification sheet)

N Av = Not available

N App = Not applicable

10. STABILITY AND REACTIVITY

Reactivity: This product is unlikely to react or decompose under normal storage conditions.

Incompatibilities: Strong acids, strong bases, strong oxidising agents

Fire Decomposition: Combustion forms carbon dioxide and if incomplete, carbon monoxide and smoke. Beware of carbon monoxide poisoning such as headache, weakness, nausea, dizziness, confusion, dimness of vision, disturbance of judgement and unconsciousness followed by coma and death.

11. TOXICOLOGICAL INFORMATION

Brodifacoum is a bromylated hydroxycoumarin derivative; an indirect anti-coagulant; and an effective stomach poison which inhibits prothrombin formation and induces capillary damage. To be effective it usually requires only a single ingestion of a bait formulation in one feeding to produce a kill. It is extremely toxic to a broad spectrum of rodents and other small mammals but due to its low bait concentration and its delayed effect it is considered to be only of low acute toxicity hazard to humans. Brodifacoum acts through the interruption of the vitamin K1-epoxide cycle, preventing vitamin K activation rather than depleting its body reserves.

The anti-coagulant effect of brodifacoum may last for more than 7 weeks in the poisoned patient. Ingestion of brodifacoum is initially asymptomatic, and may continue as such even with prolonged alterations in prothrombin time. No gastrointestinal tract or other symptomatology occurs. Coagulation disturbances may become evident a few days after ingestion, and may be detected only by laboratory studies. In severe poisoning, gum bleeding, epistaxis, petechiae, ecchymoses, haematoma, blood in urine and faeces, and genital haemorrhage may occur. Internal bleeding and cerebral haemorrhage may complicate the patient's prognosis.

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The course of poisoning is characteristically long. Alterations of coagulation parameters and clinical symptoms of bleeding may be maintained for several days if no treatment is provided. The prognosis is poor in cases with internal bleeding or intracerebral haemorrhage, and is also in patients with previous haematological illnesses or renal insufficiency. Death however is uncommon.

Potential Health Effects

Ingestion: Significant oral exposure is considered unlikely. Available data shows that this product is harmful when ingested, but symptoms are not available. No data for health effects associated with long term ingestion.

Eye contact: This product is not considered to be an irritant to eyes. No data for health effects associated with long term eye exposure.

Skin contact: Available data indicates that this product is not harmful. It should present no hazards in normal use. No data for health effects associated with long term skin exposure.

Inhalation: : Available data indicates that this product is not harmful. It should present no hazards in normal use. No data for health effects associated with long term inhalation.

Long Term Effects: No data available for product.

12. ECOLOGICAL INFORMATION

This product is harmful to aquatic organisms. This product is slow to degradable.
This product is not recommended for use in crops used as a food additive.

13. DISPOSAL CONSIDERATIONS

Dispose of small quantities and empty containers by wrapping in paper and putting in garbage. For larger quantities, if recycling or reclaiming is not possible, use a commercial waste disposal service.

14. TRANSPORT INFORMATION

Not classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for transport by road or rail.

15. REGULATORY INFORMATION

Poisons Schedule (Aust)/Toxic Substance (NZ): S6

16. OTHER INFORMATION

REFERENCES:

1. Supplier Product Safety Data.

This MSDS summarises at the date of issue our best knowledge of the health and safety hazard information of the product, and in particular how to safely handle and use the product in the workplace. Since Triox Pty Ltd cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, review this SDS in the context of how the user intends to handle and use the product in the workplace. If clarification or further information is needed to ensure that an appropriate assessment can be made, the user should contact this company.