



# SAFETY DATA SHEET

## RAT BLOCK

### 1. SUBSTANCE IDENTIFICATION

#### Country Mile Rat Blocks

Supplier name: Orion AgriScience Ltd  
Supplier address: Unit 1, 15 Sir Gil Simpson Drive, Harewood, Christchurch, 8053  
PO Box 39 071, Harewood, Christchurch, 8545  
Web address: [www.orionagriscience.co.nz](http://www.orionagriscience.co.nz)  
Email address: [orders@orionagriscience.co.nz](mailto:orders@orionagriscience.co.nz)  
Supplier phone: (03) 928 2386 (office hours) | 0800 674 6627 (free phone)  
Emergency phone: Poison information: 0800 POISON (0800 764 766) 24 hours  
Chemical emergency: 0800 CHEMCALL (0800 243 622) 24 hours  
Use: Rodenticide

### 2. HAZARDS IDENTIFICATION

#### Hazard Pictograms



#### Signal Words:

WARNING

#### Hazard Classes:

HSNO Classifications:  
Specific target organ toxicity (single or repeated) exposure (Cat. 2)  
Hazardous to the aquatic environment chronic (Cat. 4)  
Hazardous to terrestrial vertebrates

#### Hazard Statements:

H373 May cause damage to organs through prolonged or repeated exposure  
H413 May cause long lasting harmful effects to aquatic life  
Toxic to terrestrial vertebrates

#### Precautionary Statements:

##### Prevention

P101 If medical advice is needed, have product container or label at hand  
P102 Keep out of reach of children  
P103 Read carefully and follow all instructions  
P260 Do not breathe dust/fume/gas/mist/vapours/spray  
P273 Avoid release to the environment

Read label before use. Avoid contact with eyes and skin. When handling, wear personal protection as described in section 8. Do NOT lay baits in places accessible to children, pets, birds or other animals. Do NOT place baits in bush areas where stock or feral animals have access to baits. To reduce the risk of secondary poisoning, dead rats and mice should be collected for disposal. Do NOT let cats or dogs eat poisoned rats or mice. Take all reasonable steps to ensure that this product does not cause any significant adverse effects to the environment beyond the application area. Do not apply directly into or onto water.

##### Response

P314 Get medical help if you feel unwell  
First aid measures described in section 4. Contain and collect spillage for disposal. In an emergency call 111, Police or Fire Brigade. For specialist advice in an emergency only, call 0800 CHEMCALL (0800 243 6225) (24 hrs).

##### Storage

Keep out of reach of children.

##### Disposal

P501 Dispose of any untaken or unused baits or packaging by wrapping in paper, placing in a plastic bag and disposing of via domestic or commercial waste. Do NOT use packaging for any other purpose. Dispose of carcasses by burying, or by wrapping in paper, placing in a plastic bag, and disposing of via domestic or commercial waste.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

COMMON NAME	CAS NUMBER	CONTENT (%w/v)
Brodifacoum (active ingredient)	56073-10-0	0.005
Denatonium benzoate (bittering agent)	3734-33-6	<0.1
Other ingredients	Proprietary	Remainder

### 4. FIRST - AID MEASURES

For advice call the National Poisons Centre 0800 POISON (0800 764 766) 24 hours or a doctor. If medical advice is needed have product container or label to hand.

Ingestion:	Seek medical advice
Skin Contact:	Wash with plenty of soap and water. Seek medical advice if feeling unwell.
Eye Contact:	Rinse cautiously with water for several minutes. Remove contact lenses, if easy to do so. Continue rinsing. Seek medical advice if irritation persists.
Inhalation:	Remove to fresh air and keep at rest in a position comfortable for breathing. Seek medical advice if feeling unwell.
Workplace Facilities:	Hand wash facility. Eye wash facility
Advice to Doctor:	Brodifacoum is an anticoagulant with a similar effect to warfarin. It acts by interfering with the synthesis of prothrombin. The specific antidote is vitamin K1 (phytomenandione). Determine prothrombin time not less than 18 hours after consumption. If elevated, administer vitamin K1 until prothrombin time normalizes. Continue monitoring of prothrombin time for 2 weeks after withdrawal of antidote, and resume treatment if necessary.

Symptoms of Exposure which could occur if this material is not handled in accordance with instructions:

Ingestion:	Bleeding, e.g., from gums, under the skin, etc. Blood also in the faeces and urine. Increased tendency to bruise. Symptoms may be delayed
Skin Contact:	Can be absorbed via the skin (see symptoms under 'Ingestion' above).
Eye Contact:	None.
Inhalation:	Not applicable.

### 5. FIRE FIGHTING MEASURES

Fire/Explosion Hazard:	Contains paraffin wax, which is combustible
HAZCHEM Code:	Not applicable.
ERP Guide No.:	Not applicable.
Extinguishing Media:	Water spray, foam, dry chemical or CO2. Avoid water jet.
Fire Fighting Instructions:	During a fire, toxic fumes may be emitted. Wear self-contained breathing apparatus. Contain runoff.
Specific Hazards Arising from Fire:	No data available

### 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Wear protective clothing as described in section 8. Exclude non-essential people from the area.
Environmental Precautions:	Prevent further spillage or leakage. Prevent material from entering drains, waterways, etc.
Clean Up:	Keep bystanders away. Wear waterproof gloves and collect blocks. Brush up or wash away any residues. Reuse blocks where possible. Otherwise dispose of to a suitable landfill.

### 7. HANDLING AND STORAGE

Storage:	Keep out of reach of children. Store in the original tightly closed container in a secure area. Keep away from food, drink and animal feed.
Handling and Use:	Keep out of reach of children. Refer to Prevention statements in section 2 above. Keep people and animals away from the area while placing blocks.
REI:	None specified.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Tolerable Exposure Limit: None established  
Workplace Exposure Standards: Sucrose 10 mg/m<sup>3</sup> (8hr TWA); Propane-1,2-diol – 150 ppm / 474 mg/m<sup>3</sup> (vapour), 10 mg/m<sup>3</sup> (Particulates); Paraffin wax fume 2 mg/m<sup>3</sup> (8hr TWA)  
Engineering Controls: Locate baits in a bait station, or under cover or in a pipe. Baits can be nailed or secured in place with wire.  
Personal Protection:  
Eye: Not required  
Skin: Gloves  
Respiratory: Not required.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance / State / Odour:	Dark blue waxy block	pH:	Not Applicable
Odour:	Vanilla	Vapour Pressure:	No data available
Odour Threshold:	No data available	Vapour Density:	No data available
Melting Point/Freezing Point:	60°C melting point approx.	Relative Density:	1.17 approx.
Boiling Point:	No data available	Solubility in Water:	Insoluble
Flash Point:	No data available	Auto ignition Temperature:	Not Applicable
Flammability:	Combustible	Decomposition Temperature:	No data available
Upper/Lower Flammability Limits:	No data available	Kinematic Viscosity:	No data available

Partition Coefficient: n-octanol/water: See section 12

## 10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions  
Hazardous Reactions: None Expected  
Incompatibility: Do not mix with fertilizers  
Decomposition Products: None Known

## 11. TOXICOLOGICAL INFORMATION

Acute Oral: LD50 > 2000 mg/kg  
Acute Dermal: LD50 > 5000 mg/kg  
Acute Inhalation: LD50 > 5 mg/L  
Skin Irritant/Corrosive: None  
Eye Irritant/Corrosive: None  
Sensitisation Effects: None  
Mutagenic Effects: None  
Carcinogenic Effects: None  
Reproductive Effects: None  
Specific Organ Toxicity: Ingestion causes internal hemorrhages

## 12. ECOLOGICAL INFORMATION

This section describes effects which could occur if this material is not handled in accordance with this data sheet and label instructions. The following information is presented in respect of the active ingredient.

Ecotoxicity: Acute Oral LD50 (Duck) > 0.31 mg/Kg  
LC50 (96 hr.) (Rainbow trout) 0.015 mg/L  
LC50 (48 hr.) (Crustacean) 0.98 mg/L  
Persistence/degradability: Biodegradable. DT50 (soil) 84 days (typical)

Bioaccumulative Potential:	Octanol-water partition coefficient	LogP = 6.12 (high)
Soil Mobility:	Soil organic carbon water partitioning coefficient	Koc = 9155 (non mobile)
Environmental Exposure Limit:	None established	

### 13. DISPOSAL CONSIDERATIONS

Product:	Dispose of product by using it in accordance with the label. Waste product should be disposed of to a suitable landfill. For disposal of large quantities contact Orion AgriScience Ltd.
Container:	Dispose of via domestic or commercial waste. Do not burn. Do not use packaging for any other purpose.

### 14. TRANSPORT INFORMATION

Not Applicable – Not dangerous for transport

### 15. REGULATORY INFORMATION

EPA Approval No.:	HSR001594
ACVM Registration No.	V9648
Qualified Person:	Not required
Certified Handler:	Not required
Workplace Only:	No
Tracking:	Not required
Record Keeping:	Not required

Site Requirements under EPA Notice and HSWHS Regs:

- A hazardous substance location compliance certificate is not required
- A hazardous area is not required
- Separation distances for class 3 and class 6 substances to protected places and public places is not applicable
- Fire extinguishers are not required
- Signage is required for more than 1000 kilograms
- An emergency response plan is required for more than 10,000 kilograms
- Secondary containment is not required
- Segregation from incompatible substances is not required

Application Method:	The baits are approved for use as a ground based application only. Use only with an appropriate bait station, bait bag, or other container that is fixed to an object; or so that it is contained in some other way, such as in a pipe or burrow
Signage:	<p>Applies where baits are applied outdoors in a place to which members of the public ordinarily have access. Signs must be posted at every normal entry point to the application area. Signs must give the following information:</p> <ul style="list-style-type: none"><li>• Identify the person responsible for the baiting, with contact details</li><li>• Identify the substance (e.g., 'Brodifacoum rat poison bait blocks')</li><li>• State that baits are toxic to humans and animals</li><li>• State the date of application</li></ul> <p>Signage must be clearly visible from a distance of at least 2 metres. Signage must remain in place until baits are consumed or retrieved, or for at least 12 months</p>
Dept. of Conservation:	For application on DOC land, permission under section 95A of the Hazardous Substances and New Organisms Act 1996 is required
Additional Requirements:	Refer to NZS 8409:2004 'Management of Agrichemicals', and relevant local and regional council plans

### 16. OTHER INFORMATION

#### Glossary

ADE	Acceptable Daily Exposure – A daily dose, received via any route, below which no adverse effects are expected over a lifetime of exposure
ACVM	Agricultural Compounds and Veterinary Medicines group of the Ministry of Primary Industries
Cat.	GHS category
Ceiling	A concentration that should not be exceeded at any time during any part of the working day Certified Handler

DT50	Time (days) for 50% reduction in concentration
EC50	Concentration required to produce an effect in 50% of organisms
Environmental Exposure Limit	Maximum concentration limit of a substance in an environmental medium, e.g., water, soil.
EPA Notice	Hazardous Property Controls Notice 2017
ERP Guide	Dangerous Goods – Initial Emergency Response Guide SNZ HB 76:2008
GHS	Globally harmonized system of classification and labelling of chemicals
Hazardous Substance Location Compliance Certificate	For locations storing hazard substances of certain classes above threshold quantities
Hazardous Area	A designated area designed for the presence of flammable substances - Refer AS/NZS 60079.10.1:2009
HAZCHEM Code	Emergency action code for emergency services
HSWHS Regs	Health and Safety at Work (Hazardous Substances) Regulations 2017
LC50	Concentration that will kill 50% of organisms
MTQ	Maximum Transport Quantity. The maximum amount of dangerous goods that can be transported by road by the user
Notification	Advance notice given to neighbours and other affected parties, of details of proposed application, and other details as described
Octanol-Water Partition Coefficient	The partition coefficient of a substance between n-octanol and water, used as the Logarithm base 10 form, as an indicator that a substance may bioaccumulate
PDE	Permitted Daily Exposure - A daily dose below which no adverse effects are expected over a lifetime of exposure
Protected Place	Residential properties, schools, hospitals, kindys, factories, shops, warehouses, etc., and other places where people assemble
Public Place	A place frequented by the public, including roads (does not include private property)
Qualified Person	A requirement for the loader, contractor or person applying the product to hold a qualification such as a GROWSAFE Certificate, Unit Standard 21563, etc.
Record Keeping	Includes a spray diary or other record of application
REI	Restricted Entry Interval – The length of time after application before entry into the treated area is permitted without the use of protective equipment. For indoor environments, this time period commences once ventilation after treatment begins.
Segregation	Certain classes of substances must not be in contact with, and must be stored separately from, certain other classes as specified in HSWHS Regs
Separation Distances	The distances specified in Part 11 and Part 13 of HSWHS Regs between storage and/or use of hazardous substances and protected places and/or public places
Signage	Positioned at entrances to commercial premises providing information on the hazardous substances present
Soil Adsorption Coefficient (Kd)	The ratio of the concentrations of a substance adsorbed onto a solid sorbent to that dissolved in a liquid phase. The higher the value the less mobile the chemical is in soil
Soil Organic Carbon-Water	The ratio of the mass of a chemical that is adsorbed in the soil per unit mass of organic carbon in the soil.
Partitioning Coefficient (Koc)	The ratio of the mass of a chemical that is adsorbed in the soil per unit mass of organic carbon in the soil. The higher the value the less mobile the chemical is in soil
STEL	Short term exposure level – 15 minute time weighted average
Tolerable Exposure Limit	Maximum concentration limit of a substance above which persons must not be exposed
Tracking	For some particularly hazardous substances, a record must be kept of the transport, storage, sale and use of the product
TWA	Time weighted average calculated over an 8 hour working day
Workplace Exposure Standard	An occupational health standard limiting concentrations of specified substances to which persons are exposed
Workplace Only	A product that is restricted to a workplace only and under the supervision of a certified handler

Users must ensure that the most up to date version of this safety data sheet is used. This Safety Data Sheet summarises information on this product, and how to safely handle and use the product. Each user should familiarise themselves with the product label and Safety Data Sheet, and consider the information in the context of how the product will be handled and used, including in conjunction with other products. Orion AgriScience Ltd assumes no responsibility for the accuracy, completeness or suitability of this information. The user is responsible for determining the suitability and accuracy of this information for their particular purposes. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company.

**End of Safety Data Sheet**

