

SAFETY DATA SHEET

Product Name: NO Rats & Mice One Feed Blocks

Issue Date: 19/06/2018

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1. PRODUCT AND COMPANY INFORMATION

Product Name:	NO Rats & Mice One Feed Blocks
Relevant identified uses:	Ready to use rodenticide bait
Molecular Formula:	Mixture
Supplier:	Kiwicare Corporation Limited & PelGar International Limited
Street Address:	225 Maces Road, Bromley, Christchurch, 8062 New Zealand Unit 13, Newman Lane Industrial Estate Alton , HANTS GU34 2QR, United Kingdom
Postal Address:	P.O Box 15050, Aranui, Christchurch, 8643 New Zealand
Telephone	+64 3 389 0778; +44 (0)1420 80744
Email:	info@kiwicare.co.nz ; info@pelgar.co.uk
Website:	www.kiwicare.co.nz ; info@pelgar.co.uk
Emergency Contact Numbers:	0800 764 766 (0800 POISON)
National Poisons Centre:	0800 764 766 (0800 POISON)

2. HAZARDS IDENTIFICATION

HSNO Hazard Classification	Transport of Dangerous Goods Pictogram	GHS Pictogram	Signal word	Hazard statement code	Precautionary statement codes			
					Prevention	Response	Storage	Disposal
6.1E (oral)	Not applicable for the UN	No pictogram	Warning	H303	P102 ^b	P101 ^b	No storage statements	P501
	RTDG Model Regulations				P103*	P312		
6.1E (dermal)	Not applicable for the UN RTDG Model Regulations	No pictogram	Warning	H313	P102 ^b P103 ^b	P101 ^b P312	No storage statements	P501

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6.9B (Repeated exposure)	Not applicable for the UN RTDG Model Regulations		Warning	H373	P103 ^b P260	P314	No storage statements	P501
9.1D	Not applicable for the UN RTDG Model Regulations	No Pictogram	No Signal Word	H401 ^r /H402 ^p / H413 ^p	P103 ^b P273	No response statements	No storage statements	P501

Dangerous Goods: Not dangerous goods; signal word = Warning

Packaging Group: None

Hazardous Substance (HSNO) Codes: 6.1E (oral & dermal acute toxicity level 5)
6.9B (May be harmful to human target organs)
9.1D (Slightly harmful in the aquatic environment)

Hazard Statement: H303: May be harmful if swallowed.
H313: May be harmful in contact with skin.
H373: May cause damage to organ through repeated exposure
H413: May Cause long lasting harmful effects to aquatic life.

Precautionary Statements: P101: If medical advice is needed, have product container or label at hand.
P102: Keep it out of reach of children.
P103: Read label before use.
P260: Do not breathe dust.
P273: Avoid release to the aquatic environment.
P312: Call a POISON CENTER or doctor/physician if you feel unwell.
P314: Get medical advice if you feel unwell.
P501: In the case of a substance that is in compliance with a HSNO approval other than a Part 6A (Group Standards) approval, a label must provide a description of one or more appropriate and achievable methods for the disposal of a substance in accordance with the Hazardous Substances (Disposal) Regulations 2001.

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3. COMPOSITION/INFORMATION ON INGREDIENTS

Recommended Use: Ready to use rodenticide bait

Appearance: Blue waxed blocks

Ingredients

Ingredients	CAS #	Content %
Brodifacoum	56073-10-0	0.05 g/kg
Other ingredients	NA (Mixture)	To 1 Kg

4. FIRST AID MEASURES

General information: In case of accident, or if you feel unwell, seek medical advice (show the label where possible).

Ingestion: If swallowed, drink 1-2 glasses of water or milk. Do not induce vomiting. Seek medical advice or call NZ Poisons Centre on 0800 764 766. If medical advice is needed have product label at hand. As the concentration of Brodifacoum in the final product is very low, large amounts of the product would have to be ingested to cause serious harm.

Eye Contact: If product gets in eyes, rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing. Seek medical advice or call NZ Poisons Centre on 0800 764 766. If medical advice is needed have product label at hand.

Inhalation: As product is a solid block. Inhalation is unlikely. Remove from exposure to fresh air. If breathing problems develop, seek medical advice or call NZ Poisons Centre on 0800 764 766. If medical advice is needed have product label at hand.

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4. FIRST AID MEASURES

Skin Contact: If on skin. Wash with plenty of soap and water.

Notes to Physician: Brodifacoum is an indirect anticoagulant.
Vitamin K1 is antidotal.

Symptoms

Symptoms after ingestion (though also toxic via the dermal route) may range from increased bleeding tendency (e.g. gingiva bleeding or nose bleeding) to massive haemorrhage in severe cases. Hematuria, bruisability, vomiting blood, cerebrovascular bleeding are possible.

Treatment

Elementary aid, decontamination and symptomatic treatment.

Note for physicians

Gastric lavage should be performed in cases of significant ingestions, followed by administration of activated charcoal and sodium sulfate. The antidote for brodifacoum is vitamin K1. The efficacy of vitamin K1 treatment should be assessed by monitoring the coagulation parameters, such as prothrombin time or INR. Initial treatment may be done with intravenous vitamin K1 in severe cases, while usually oral vitamin K1 should be sufficient. Severe poisoning cases may require the initial application of blood products: - whole blood - fresh frozen plasma and fresh blood should be used in cases of severe bleeding to rapidly restore blood clotting factors

Transfusions may be required in cases of significant blood loss.

It is expected that repeated intake of brodifacoum would be required to cause an actual poisoning, yet it is prudent to control coagulation parameters for several days after.

5. FIRE FIGHTING MEASURES

Specific Hazards: No specific hazard.

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5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media:	Use equipment/media appropriate to surrounding conditions. Use water spray, carbon dioxide, foam, sand.
Fire Fighting Advice:	Fire fighters should wear full protective gear, including self-contained breathing apparatus (AS/NZS 1715/1716). Keep unnecessary people away and move all other personnel to windward side of fire. Bund area with sand or earth to prevent contamination of drains or waterways. Dispose of fire control water or other extinguishing agent and spillage safely later.

6. ACCIDENTAL RELEASE MEASURES

Environmental precautions:	Prevent leakage or spillage if safe to do so.
Minor Spills (Up to 20 kg):	Wear protective clothing. Clear area of unprotected personnel. Contain spill and collect. Do not allow product or washings to enter the waterways or sewer.
Major Spills (more than 20 kg):	Ventilate area of leak or spill. Wear appropriate personal protective gear. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Contain and recover liquid when possible. Use non-sparking tools and equipment. Collect in an appropriate container or absorb with an inert material (e.g. vermiculite, dry sand, earth), and place in a chemical waste container. Do not use combustible materials such as sawdust. Collect in an appropriate sealable container for disposal in an approved landfill or incinerate at an authorised installation.

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7. HANDLING AND STORAGE

Precautions for safe handling:	Wear appropriate PPE as detailed in Section 8. Keep out of reach of children. Read label before use.
Conditions for safe Storage including incompatibilities & Packaging:	Keep out of the reach of children. Store in original container in a cool, dry, ventilated place, away from direct heat of sunlight. Store away from foodstuffs, children and animals. Do not allow product to get wet in storage.
Protection against fire and explosion:	Keep away from heat sources even though the product is not combustible. The product is not explosive. Keep away from oxidizing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Standards:	See 'Exposure limits' below (Workplace Exposure Standards and Biological Exposure Indices 8 th edition)
Engineering Controls:	Use in a well ventilated area and avoid breathing dust.
Hand protection:	Suitable chemical resistant gloves are recommended for applicants.
Eye protection:	Wear safety glasses or full face shield if splashes are likely to occur.
Body protection:	Avoid all personal contact. Read label before use. Keep out of reach of children. Do not eat, drink or smoke when using this product. Wear protective gloves, face and eye protection. Wash exposed skin and contaminated clothing with soap and water after use. Wash hands after use and before, using tobacco products, or toilet facilities.
General safety and hygiene measures:	Handle in accordance with good hygiene and safety practice. Wearing of closed work clothing is recommended. Avoid contact with the skin, eyes and clothing. Store work clothing separately.

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Environmental Exposure Controls: Minimise release to the environment. An environmental assessment must be made to ensure compliance with local environmental legislation.

O Substance	CAS #	TWA		STEL	
		ppm	mg/m ³	ppm	mg/m ³

None

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Odour: Hard waxed blue bait block containing grain. Chocolate and vanilla odours.

Solubility: Insoluble in water

Specific Gravity: ~ 1.0 kg/l

Boiling Point: Not applicable

Flash Point: > 93 °C

pH Value: Not applicable

Explosion Hazard: No explosion hazard

Formula: Coumarin mixture

Exposure Standards (TLV-TW): Refer to section 8

Engineering Controls: Refer to section 8

10. STABILITY AND REACTIVITY

Stability & Chemical reactivity: Stable under normal conditions of use.

Incompatibility: Avoid strong oxidising agents.

Corrosive Properties: None corrosive.

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10. STABILITY AND REACTIVITY

Thermal Decomposition:	In fire product may release carbon monoxide and irritant fumes.
Hazardous polymerisation:	Will not occur.

11. TOXICOLOGICAL INFORMATION

For the substance (final product):

Ingestion:	Brodifacoum is a second generation anticoagulant. Symptoms of ingestion would be failure of the blood clotting mechanism and include bleeding gums and failure of blood clotting after skin wounds. After one exposure the toxicity of Brodifacoum is relatively low, however if exposure continues over several days the product becomes more toxic. The product must be constantly present in the blood for more than 1 to 2 days in order to be highly toxic.
Skin corrosion/irritation:	It is unlikely to cause skin damage or irritation.
Serious eye damage/eye irritation:	It is unlikely to cause eye damage or irritation.
Respiratory or skin sensitization:	It is unlikely to cause an allergic skin reaction.
Germ cell mutagenicity:	Not mutagenic.
Carcinogenicity:	Not carcinogenic.
Reproductivity:	Not a reproductive toxicant.
Acute Toxicity:	Acute oral & dermal 2000 < LD ₅₀ < 5000 ppm
Chronic Toxicity:	May cause human target organ toxicity via repeated exposure.

12. ECOTOXICITY INFORMATION

Ecological information of substance:	9.1D slightly harmful in the aquatic environment.
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12. ECOTOXICITY INFORMATION

Rapid degrade & Bioaccumulative:	Brodifacoum is not rapid degradable and it is bioaccumulative. However, as the product contains 50ppm Brodifacoum, this quantity is unlikely to give adverse effect to aquatic life.
Soil toxicity:	No soil toxicity.

13. DISPOSAL CONSIDERATIONS

Waste treatment – recommendation:	In the case of a substance that is in compliance with a HSNO approval other than a Part 6A (Group Standards) approval, a label must provide a description of one or more appropriate and achievable methods for the disposal of a substance in accordance with the Hazardous Substances (Disposal) Regulations 2001.
Container Disposal:	Dispose of sealed containers at an approved local waste disposal 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.
Product Disposal:	After use: Dispose of all the bait at the baiting site. Do not dispose of undiluted chemicals on-site.

14. TRANSPORT INFORMATION

Road, Rail, Marine and Air

UN Number:	None
Dangerous Goods Class:	Not dangerous goods. Not restricted for transport. (HSNO ADR/RID; IMDG; IATA/ICAO)
Hazchem Code:	None
Packaging Group:	None

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14. TRANSPORT INFORMATION

Proper Shipping Name: None

Segregation: None

15. N.Z. REGULATORY INFORMATION

EPA HSNO Number: HSR001594

HSNO Classifications: 6.1E (oral & dermal acute toxicity level 5)
6.9B (Harmful to human target organs via repeated exposure)
9.1D (Slightly Harmful in the aquatic environment)

HSNO Controls: Refer to HSR001594

ACVM Approved code: V009601; See www.foodsafety.govt.nz for registration conditions.

16. OTHER INFORMATION

SDS date of preparation: 31 / 08 / 2017

SDS date of revision: 31 / 08 / 2022

Emergency Contact	24 Hours
Work Hours	National Poisons Centre
Kiwicare Corporation	PO Box 913
225 Maces Road	Dunedin
PO Box 15050	Tel: 0800 764 766 (POISON)
Christchurch	
Tel: (03) 389 0778	
Fax: (03) 389 0669	

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16. OTHER INFORMATION

All Safety Data Sheets are subject to review and should not be left longer than five years before and update is obtained.

For further information visit the Kiwicare web site, www.kiwicare.co.nz, or contact the supplier Pelgar International Ltd.

The information in this document should be made available to all who may handle the product. For proper and safe use of this product, please refer to the product label.

This information is based on data believed by Kiwicare Corporation Limited to be accurate at the time of writing. It is given in good faith but no warranty expressed or implied is made as to its accuracy, completeness or otherwise. Every person dealing with the materials referred herein does so at their own risk absolutely and must make independent determinations of suitability and completeness of information from all sources to ensure their proper use.

Attention is drawn to the application and safety instructions set out on the label. This sheet is not a substitute for safety, hazard or application instructions set out on the label. As Kiwicare Corporation Limited and their distributors have no control over storage or use of this product no liability for accident or damage will be accepted.

Abbreviations:

ACVM: Agricultural Compounds and Veterinary Medicines (in relation to Group or Act 1997)

ADR: European agreement concerning the international carriage of dangerous goods by road.

CLP: Classification, Labelling and Packaging

CAS number: Chemical Abstract Services Number

HSNO: Hazardous Substances and New Organisms (legislation 1996)

IMDG: International Maritime Dangerous Goods.

IATA: International Air Transport Association.

ICAO: International Civil Aviation Organisation

RID: Regulations concerning the International carriage of Dangerous goods by rail.

GHS: Global Harmonized System

EU: European Union

EC: European Commission

TLV: Threshold Limit Value

TWA: Time weighted Average

STEL: Short-Term Exposure Limit

H Phrase: Hazard phrase

P Phrase: Precautionary phrase

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