

SAFETY DATA SHEET

Product Name: NO Rats & Mice One Feed Blocks

Issue Date:4/03/2014

Page 1 of 10

1. PRODUCT AND COMPANY INFORMATION

Product Name:	NO Rats & Mice One Feed Blocks
Synonyms:	
Molecular Formula:	Mixture
Supplier:	Kiwicare Corporation Limited
Street Address:	225 Maces Road, Bromley, Christchurch, 8062 New Zealand
Postal Address:	P.O Box 15050, Aranui, Christchurch, 8643 New Zealand
Telephone	+64 3 389 0778
Email:	info@kiwicare.co.nz
Website:	www.kiwicare.co.nz
Emergency Contact Numbers:	
National Poisons Centre:	0800 764 766 (0800 POISON)

2. HAZARDS IDENTIFICATION

Dangerous Goods:	Not dangerous goods
Packaging Group:	None allocated
Hazardous Substance (HSNO) Codes:	6.1E – Slightly harmful to humans 6.9B (All) – Harmful to human target organs or systems 9.1D (All) – Slightly harmful to aquatic life

3. COMPOSITION/INFORMATION ON INGREDIENTS

Recommended Use:	Ready to use rodenticide bait
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SAFETY DATA SHEET

Product Name: NO Rats & Mice One Feed Blocks

Issue Date: 4/03/2014

Page 2 of 10

3. COMPOSITION/INFORMATION ON INGREDIENTS

Appearance: Blue waxed blocks

Ingredients

Ingredients	CAS #	Content % w/w or w/v
Brodifacoum	56073-10-0	0.05 g/kg
Other ingredients (non-hazardous)		To 1 kg

4. FIRST AID MEASURES

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

KIWICARE®

Product Name: NO Rats & Mice One Feed Blocks

Issue Date: 4/03/2014

Page 3 of 10

4. FIRST AID MEASURES

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:

Suitable Extinguishing Media:

Water spray, carbon dioxide, foam, sand.

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SAFETY DATA SHEET

Product Name: NO Rats & Mice One Feed Blocks

Issue Date: 4/03/2014

Page 4 of 10

5. FIRE FIGHTING MEASURES

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

Spill Clean-up:

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):

Wear protective clothing. Clear area of unprotected personnel. Contain spill and collect. Do not allow product or washings to enter the waterways or sewer. If spill does enter waterway contact local authority. Contaminated absorbent and wash water should be disposed of according to local and national regulations.

Collect in an appropriate sealable container for disposal in an approved landfill or incinerate at an authorised installation.

7. HANDLING AND STORAGE

Handling:

Keep out of the reach of children. Keep container sealed when not in use. Rinse out empty containers and do not use for any other purpose.

Storage:

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.

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SAFETY DATA SHEET

Product Name: NO Rats & Mice One Feed Blocks

Issue Date: 4/03/2014

Page 5 of 10

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Standards:	None allocated
Engineering Controls:	No engineering controls are required for normal use of this product according to label.
Personal 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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Odour:	Hard waxed blue bait block containing grain. Chocolate and vanilla odours.
Solubility:	None allocated
Specific Gravity:	Approx. 1 kg/L
Boiling Point:	None allocated
Freezing Point:	None allocated
Melting Point:	None allocated
Vapour Pressure:	None allocated
Coefficient of Cubic Expansion:	None allocated
Relative Vapour Density:	None allocated
Decomposition Point:	None allocated
Viscosity:	None allocated
Flash Point:	None allocated

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SAFETY DATA SHEET

Product Name: NO Rats & Mice One Feed Blocks

Issue Date:4/03/2014

Page 6 of 10

9. PHYSICAL AND CHEMICAL PROPERTIES

Electrostatic Generation:	None allocated
Auto-ignition Temperature:	None allocated
% Volatile by Volume:	None allocated
Flammable Limits:	None allocated
pH Value:	None allocated
Evaporation Rate:	None allocated
Explosion Hazard:	None allocated
Formula:	Mixture
Molecular Weight:	None allocated
Chemical Family:	Coumarin
Other:	
Oxidising Agents:	None allocated
Acids:	None allocated
Alkalis:	None allocated
Salt or Freshwater:	None allocated
Exposure Standards (TLV-TW):	None allocated
Engineering Controls:	None allocated

10. STABILITY AND REACTIVITY

Stability:	Stable under normal conditions of use.
Incompatibility:	Avoid strong oxidising agents.
Corrosive Properties:	None corrosive.
Thermal Decomposition:	In fire product may release carbon monoxide and irritant fumes.

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SAFETY DATA SHEET

Product Name: NO Rats & Mice One Feed Blocks

Issue Date: 4/03/2014

Page 7 of 10

11. TOXICOLOGICAL INFORMATION

General:

Acute Effects

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.

Eye Contact:

None irritant.

Skin Contact:

None irritant.

Inhalation:

Brodifacoum is poisonous by inhalation, however inhalation is unlikely as product is solid.

Acute Toxicity:

Acute oral LD50: Rat 6 g/kg (calculated)

Chronic Toxicity:

Animal studies show no evidence of carcinogenic or teratogenic effects.

12. ECOTOXICITY INFORMATION

Environmental Effects:

As the product contains 50ppm brodifacoum, unlikely to be hazardous to aquatic life.

Harmful to wildlife. Read all precautions before use.

13. DISPOSAL CONSIDERATIONS

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SAFETY DATA SHEET

Product Name: NO Rats & Mice One Feed Blocks

Issue Date: 4/03/2014

Page 8 of 10

13. DISPOSAL CONSIDERATIONS

Product Disposal:	After use: Dispose of all the bait at the baiting site. Do not dispose of undiluted chemicals on-site.
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.

14. TRANSPORT INFORMATION

Road and Rail

UN Number:	None allocated
Dangerous Goods Class:	Not dangerous goods.
Hazchem Code:	None allocated
Packaging Group:	None allocated
Proper Shipping Name:	None allocated
Segregation:	None allocated

Marine

UN Number:	None allocated
Class:	None allocated
Packaging Group:	None allocated
Proper Shipping Name:	None allocated

Air Transport

UN Number:	None allocated
Class:	None allocated

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SAFETY DATA SHEET

Product Name: NO Rats & Mice One Feed Blocks

Issue Date: 4/03/2014

Page 9 of 10

14. TRANSPORT INFORMATION

Packaging Group: None allocated

Proper Shipping Name: None allocated

15. N.Z. REGULATORY INFORMATION

EPA HSNO Number: HSR001594

HSNO Classifications: 6.1E – Slightly harmful to humans
6.9B (All) – Harmful to human target organs or systems
9.1D (All) – Slightly harmful to aquatic life



HSNO Controls: See EPA website

HSNO Approved codes of Practice: See EPA website

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See www.foodsafety.govt.nz for registration conditions.

16. OTHER INFORMATION

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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SAFETY DATA SHEET

KIWICARE®

Product Name: NO Rats & Mice One Feed Blocks

Issue Date:4/03/2014

Page 10 of 10

16. OTHER INFORMATION

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

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

The information in this document should be made available to all who may handle the product

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.

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