



International

SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) No. 1907/2006

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Roban Excel

Revision 3
Revision date 07-Oct-2011

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND THE COMPANY

Product name Roban Excel
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Intended use Ready for use rodenticide containing 50 ppm difenacoum.

2 HAZARDS IDENTIFICATION.

Labelling to Directive 1999/45 EC The preparation is non-dangerous in accordance with Directive 1999/45/EC.

Safety phrases To avoid risks to man and the environment, comply with the instructions for use.
S1/2 - Keep locked up and out of the reach of children.
S13 - Keep away from food, drink and animal feedingstuffs.
S20/21 - When using do not eat, drink or smoke.
S37 - Wear suitable gloves.
S46 - If swallowed, seek medical advice immediately and show this container or label.

Other hazards Unlikely to cause harmful effects under normal conditions of handling and use. Harmful to Wildlife. Wild mammals and birds may be at greater risk if the product is not used in accordance with its label.

3 . COMPOSITION / INFORMATION ON INGREDIENTS.

Hazardous ingredients

	Conc.	CAS	EINECS	Symbols/Risk phrases EEC 67/548
Difenacoum	0.005%	56073-07-5	259-978-4	T+; R28 T; R48/25 N; R50/53
Denatonium benzoate	0.001%	3734-33-6	223-095-2	Xn;R20 Xn;R22 Xi;R37 Xi;R38 Xi;R41 R52/53
propane-1,2-diol (Propane-1,2-diol particulates)	1-10%	57-55-6	200-338-0	
Sugar (Sucrose)	1-10%	57-50-1		
Paraffin Wax	30-40%	8002-74-2	232-315-6	
1,2-Benzisothiazolin-3-one	<0.02%	2634-33-5	220-120-9	Xn; R22 Xi; R38-41 R43 N; R50

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4. FIRST AID MEASURES

Skin contact	May cause skin irritation in susceptible persons. Remove contaminated clothing. Wash off immediately with plenty of soap and water. If irritation persists obtain medical attention. Contaminated clothing should be washed and dried before re-use.
Eye contact	May cause eye irritation of susceptible persons. Rinse immediately with plenty of water and seek medical advice if irritation persists.
Inhalation	Unlikely to present an inhalation hazard unless excessive dust is present. Move the exposed person to fresh air. Obtain medical advice immediately.
Ingestion	If swallowed, seek medical advice immediately and show this container or label.
General information	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). ADVICE FOR DOCTORS: Difenacoum is an anticoagulant which may produce bleeding; this may be delayed for several days after exposure. If there is no active bleeding the INR (prothrombin time) should be measured on presentation and 48-72 hours after exposure. If the INR is greater than 4, administer Vitamin K1 (phytomenadione) 5-10 mg by slow intravenous injection (100 µ g/kg body weight for a child). Treatment with phytomenadione (orally or intravenously) may be required for several weeks. The advice of the National Poisons Information Service (http://www.npis.org/) should be sought, particularly if active bleeding occurs.

5. FIRE FIGHTING MEASURES

Extinguishing media	Keep fire exposed containers cool by spraying with water if exposed to fire. Carbon dioxide (CO ₂) Alcohol resistant foam. Dry chemical. Use extinguishing media appropriate to the surrounding fire conditions. Do NOT use ... Do not use water jets.
Protective equipment	In the event of fire. Wear: Self-contained breathing apparatus. Suitable gloves and boots.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear suitable protective clothing, gloves and eye/face protection. See section 8.
Environmental precautions	Prevent further leakage or spillage, if safe to do so.
Clean up methods	Clean up promptly by sweeping or vacuum. Transfer to a suitably labelled container. Subsequently, wash the contaminated area with water, taking care to prevent the washings entering sewers or drains.

7. HANDLING AND STORAGE

Handling	Avoid contact with eyes and skin. Avoid formation of dust. Do not smoke eat or drink while handling this product . Always use good personal hygiene procedures when handling chemicals. Wash hands and face before eating, drinking or smoking. Read the label before use. Unlikely to produce dust as the product is a wax block.
Storage	Keep in a cool, dry, well ventilated area. Keep out of the reach of children. Keep away from food and animal feedstuffs. Keep away from oxidising agents.
Specific use	Ready for use rodenticide containing 50 ppm difenacoum.

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limits

propane-1,2-diol (Propane-1,2-diol particulates)	WEL 8-hr limit ppm: - WEL 15 min limit ppm: -	WEL 8-hr limit mg/m3: 10 WEL 15 min limit mg/m3: -
propane-1,2-diol (Propane-1,2-diol total vapour and particulates)	WEL 8-hr limit ppm: 150 WEL 15 min limit ppm: -	WEL 8-hr limit mg/m3: 474 WEL 15 min limit mg/m3: -
Sugar (Sucrose)	WEL 8-hr limit ppm: - WEL 15 min limit ppm: -	WEL 8-hr limit mg/m3: 10 WEL 15 min limit mg/m3: 20
Paraffin Wax	WEL 8-hr limit ppm: WEL 15 min limit ppm:	WEL 8-hr limit mg/m3: 2 WEL 15 min limit mg/m3: 6
Paraffin Wax (Paraffin wax, fume)	WEL 8-hr limit ppm: - WEL 15 min limit ppm: -	WEL 8-hr limit mg/m3: 2 WEL 15 min limit mg/m3: 6

Respiratory protection Not required under normal conditions of handling and use.

Hand protection Impervious gloves.

Eye protection Not required under normal conditions of handling and use.

Protective equipment Impervious clothing. Boots.

9. PHYSICAL AND CHEMICAL PROPERTIES

Description	Wax Block.
Colour	Blue, Green or Red
Odour	Slight.
Flammability limits	Combustible
Relative density	Not available
Melting point	~ 60 (for the wax)°C

10. STABILITY AND REACTIVITY

Stability	Stable under normal conditions.
Conditions to avoid	Heat, sparks and open flames.
Materials to avoid	Oxidising agents.
Hazardous decomposition products	Combustion or thermal decomposition will produce toxic and irritant fumes.

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11. TOXICOLOGICAL INFORMATION

Toxicological information

Difenacoum	Oral Rat LD50 = 1.8 mg/kg Dermal Rat LD50 = 51.5 - 63 mg/kg Inhalation Rat LC50/4 h = 16.27-20.74 µg/l
Denatonium benzoate	Oral Rat LD50 = 749 mg/kg Inhalation Rat LC50/4 h = 0.2 mg/l Oral Rat LD50 = >2000 mg.kg
propane-1,2-diol	Oral Rat LD50 = >2000 mg.kg

Acute toxicity	ORL RAT LD50 approx. 30 g/kg (calculated).
Corrosivity	No irritation expected.
Sensitization	Grain Dust and flour dust are respiratory sensitizers causing asthma. As the product is a wax block, it is unlikely to cause any problems.
Mutagenic effects	No evidence to suggest anticoagulant rodenticides are mutagenic.
Carcinogenic effects	No evidence to suggest anticoagulant rodenticides are carcinogenic.

12. ECOLOGICAL INFORMATION

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

Difenacoum	Algae EC50/72h = 0.51mg/l Daphnia LC50/48h = 0.91 mg/l Rainbow trout LC50/96h = 0.33 mg/l
propane-1,2-diol	Daphnia EC50/48h = > 4850 mg/l Fish LC50/96h = 4600mg/l

Further information Harmful to wildlife. Read all precautions before use.

13. DISPOSAL CONSIDERATIONS

General information	Dispose of as hazardous waste in compliance with all local and national regulations. Hazardous Waste Code 20 01 19
Disposal of packaging	Empty containers can be sent to landfill after cleaning, if in compliance with local and national regulations.

14. TRANSPORT INFORMATION

Further information Not classified as dangerous for transport.

15. REGULATORY INFORMATION

Labelling	The product is classified as non hazardous and is labelled in accordance with Biocides Directive 98/8 EEC. Read the label before use.
Safety, Health and Environmental Regulations	Regulation (EC) 1907/2006, Regulation (EC) 1272/2008 and Regulation (EC) 453/2010. Biocides Directive 98/8 EEC.

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16. OTHER INFORMATION

Text of risk phrases in Section 3.	<p>R20 - Harmful by inhalation.</p> <p>R22 - Harmful if swallowed.</p> <p>R28 - Very toxic if swallowed.</p> <p>R37 - Irritating to respiratory system. R38 - Irritating to skin.</p> <p>R41 - Risk of serious damage to eyes. R43 - May cause sensitisation by skin contact.</p> <p>R48/25 - Toxic: danger of serious damage to health by prolonged exposure if swallowed.</p> <p>R50 - Very toxic to aquatic organisms.</p> <p>R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.</p> <p>R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.</p>
Restricted use	Ready for use rodenticide containing 50 ppm difenacoum.
Further information	Approved under the Biocides Directive 98/8 EEC. Authorisation Number UK-2011-0069
Data sources	Raw material suppliers Safety Data Sheets. CHIP 2009 EH40
Revision	<p>This document differs from the previous version in the following areas:</p> <p>2 – Hazards Identification</p> <p>4 – First Aid Measures</p> <p>8 – Respiratory Protection, Eye Protection</p> <p>11 – Toxicological information,</p> <p>13 – Disposal Considerations</p> <p>15 – Regulatory Information</p>