



International

MATERIALS SAFETY DATA SHEET

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RATICATE - Brodifacoum Baits

Revision 4

Revision date 30-Apr-2017

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND THE COMPANY

Product name-Raticate

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2. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous ingredients

	Conc.	CAS	EINECS	Symbols/Risk phrases
Brodifacoum	0.005%	56073-10-0	259-980-5	T+; R27/28 T; R48/24/25 N; R50/53
Propane-1,2-diol	1 - 10%	57-55-6	200-338-0	
Starch	0 - 0.5%	9005-25-8		
Sugar (Sucrose)	1 - 10%	57-50-1		
2-Chloracetamide	0 - 0.1%	79-07-2	201-174-2	Repr Cat 3; R62 T; R25 R43
Grain	20 - 30%			
Flour	20 - 30%			

3. HAZARDS IDENTIFICATION

Main hazards The preparation is non-dangerous in accordance with Directive 1999/45/EC. Contains chloracetamide, may produce an allergic reaction. Harmful to Wildlife. Wild mammals and birds may be at greater risk if the product is not used in accordance with its label.

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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 irritation to eyes. Seek medical attention if irritation or symptoms persist. Wash with water.
Inhalation	Unlikely to present an inhalation hazard as the product is supplied as a solid block. 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: Brodifacoum is an indirect anticoagulant. Phytomenadione, Vitamin K1, is antidotal. Determine prothrombin times not less than 18 hours after consumption. If elevated, administer Vitamin K1 until prothrombin time normalises. Continue determination of prothrombin time for two weeks after withdrawal of antidote and resume treatment if elevation occurs in that time.

5. FIRE FIGHTING MEASURES

Extinguishing media	Keep fire exposed containers cool by spraying with water if exposed to fire. Carbon dioxide (CO2) Alcohol resistant foam. Dry chemical. Use extinguishing media appropriate to the surrounding fire conditions.
Fire hazards	This product contains paraffin wax which is combustible and vapours from molten wax are flammable.
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. Transfer to a suitable 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 skin and eyes. Contains chloracetamide, may produce an allergic reaction. Avoid dust formation. 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 brodifacoum.

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limits

Propylene glycol particulates (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: -
Propylene glycol (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: -
Starch respirable	WEL 8-hr limit ppm: - WEL 15 min limit ppm: -	WEL 8-hr limit mg/m3: 4 WEL 15 min limit mg/m3: -
Starch Total Inhalable	WEL 8-hr limit ppm: - WEL 15 min limit ppm: -	WEL 8-hr limit mg/m3: 10 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
Flour and Grain Dust	WEL 8-hr limit ppm: WEL 15 min limit ppm:	WEL 8-hr limit mg/m3: 10 WEL 15 min limit mg/m3: 30

Respiratory protection Unlikely to present an inhalation hazard. If levels approach the WEL then suitable approved respiratory protection should be worn.

Hand protection Impervious gloves.

Eye protection Not required.

Protective equipment Impervious clothing, boots.

9. PHYSICAL AND CHEMICAL PROPERTIES

Description	Wax Block.
Colour	Red.
Odour	Slight.

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.

11. TOXICOLOGICAL INFORMATION

Acute toxicity	ORL RAT LD50 approx 6g/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. Contains chloracetamide, may produce an allergic reaction.
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 brodifacoum, unlikely to be hazardous to aquatic life. Harmful to wildlife. Read all precautions before use
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13. DISPOSAL CONSIDERATIONS

General information	Dispose of in compliance with all local and national regulations.
Disposal of packaging	Empty containers can be sent to landfill after cleaning, if in compliance with local and national regulations.

14. TRANSPORT INFORMATION

Not Classified as dangerous for transport

15. REGULATORY INFORMATION

Labelling	Covered by the Control of Pesticides Regulations (1986). It has been labelled in accordance with those regulations.
Statutory Conditions relating to use	<p>The (COSHH) Control of Substances Hazardous to Health Regulations 2002 may apply to the use of this product at work. For Indoor Use Only. Avoid all contact by mouth.</p> <p>Prevent access to bait by children, birds and non-target animals, particularly dogs, cats, pigs and poultry. Do not place bait where food, feed, or water could become contaminated (except when used in sewers).</p> <p>Search for and remove rodent bodies at frequent intervals during treatment, ideally at each bait inspection, (unless used in sewers).</p> <p>Collect and dispose of the remains of bait and any remaining rodent bodies after treatment. (unless used in sewers) . You must ensure that you comply with legislation regarding the correct disposal of waste. For further guidance contact the Environmental Agency or your local Scottish Environmental Protection Agency (SEPA) office.</p> <p>This product contains substances which are known to be hazardous to the environment. Do not contaminate waterbodies or watercourses with chemicals or the used container.</p> <p>Harmful to wildlife</p> <p>READ ALL PRECAUTIONS BEFORE USE.</p>

16. OTHER INFORMATION

Text of risk phrases in Section 2	<p>R25 - Toxic if swallowed. R27/28 - Very toxic in contact with skin and if swallowed.</p> <p>R43 - May cause sensitisation by skin contact.</p> <p>R48/24/25 - Toxic: danger of serious damage to health by prolonged exposure in contact with skin and if swallowed.</p> <p>R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.</p> <p>R62 - Possible risk of impaired fertility.</p>
Restricted use	<p>Ready for use rodenticide containing 50 ppm brodifacoum. For agricultural use.</p> <p>Users of this product are obliged under law to advise the owners or residents where this product is used, in writing, that Vertox wax block bait contains the anticoagulant brodifacoum for which the antidote is Vitamin K1. Premise owners and residents must be further advised to prevent access to the bait by children and domestic animals particularly dogs and birds.</p>
Replaces	<p>Safety Data sheet Replaces revision 2.</p> <p>Changes to section 1, 2, 3, 4, 7, 8, 15, 16</p>
Data sources	Raw material suppliers Safety Data Sheets, CHIP 2002, EH40