

## Products

# Safety Data Sheet

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**REVISION (see box 16)**

Issue : 03 07 : 12 : 2006

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY	
<b>Product Name</b>	<b>Deadline Mouse Blocks</b>
<b>Description</b>	A rodenticide for professional use. Blue ready-to-use grain based blocks with no perceptible odour in a tamper resistant bait box. Contains a bittering additive.
<b>Company</b>	Rentokil Initial Supplies, Liverpool, L33 7SR. Product advice line: 0151 548 5050. Emergency line: +44 (0)1342 833022

2 HAZARD IDENTIFICATION
<b>Classification (Supply – Use) : In compliance with EC Directive 1999/45.</b>
<b>Not classified</b>
<b>Adverse Physical, Chemical, Significant Human Health and Environmental Effects (See also box 11):</b>
This product contains an anticoagulant. If ingested symptoms may include nose bleed and bleeding gums. In severe cases there may be bruising, haematomas of the joints and blood present in the faeces and urine. No other significant adverse effects expected under normal conditions of handling and use.

3 COMPOSITION / INFORMATION ON INGREDIENTS (SEE ALSO BOX 16)			
% w/w	Common*/Chemical Name, ELINCS/EINECS & CAS No. of Ingredients	EC 1999/45 Classification	
0.01	Bromadiolone*/3-[3-(4'-bromo[1,1'-biphenyl]-4-yl)-3-hydroxy-1-phenylpropyl]-4-hydroxy-coumarin EINECS : 249-205-9 CAS : 28772-56-7	T+ :R26/27/28 :R50,53	
>2.5 ≤10.0	Propylene glycol* / propane-1,2-diol EINECS : 200-338-0 CAS : 57-55-6	Not classified	
≤1.0	Bitrex®*/ denatonium benzoate EINECS : 223-095-2 CAS : 3734-33-6	X <sub>n</sub> :R20/22 :R38 :R41 :R52,53	
≤1.0	Sodium benzoate EINECS : 208-534-8 CAS : 532-32-1	Not classified	

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<b>4 FIRST-AID MEASURES (SEE ALSO "ADVERSE EFFECTS" IN BOX 2)</b>	
<b>Inhalation</b>	This route of exposure is not anticipated.
<b>Eye Contact</b>	Rinse affected eye with clean running water, or eyewash solution, for at least 15 minutes holding eyelids well apart. Rinse entire surface and do not allow run-off to contaminate unaffected eye. Seek medical attention.
<b>Skin Contact</b>	Remove and wash contaminated clothing immediately. Wash affected area thoroughly with soap and water. If the patient feels unwell seek medical advice.
<b>Ingestion (Swallowing)</b>	Do NOT induce vomiting. If unconscious place in the recovery position and apply supportive measures if necessary. If conscious give patient up to ½ litre or 1 pint of water to drink. Seek medical attention.
<b>Emergency Equipment Suggested</b>	Appropriate first-aid equipment should be provided. For the UK this should be in accordance with the Health & Safety (First-Aid) Regulations 1981. See also the Approved Code of Practice "First-aid at Work".
<b>Note To Doctor</b>	Further information on all Rentokil Initial formulations is lodged with the National Poisons Information Service in the UK. Bromadiolone is an indirect anticoagulant. Phytomenadione, Vitamin K1, is antidotal. Determine prothrombin times not less than eighteen 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.

<b>5 FIRE FIGHTING MEASURES</b>	
<b>Fire Extinguisher Type</b>	Use carbon dioxide, foam, water, or dry powder extinguishers.
<b>Special Fire-Fighting Procedures</b>	Wear suitable personal protective equipment.
<b>Special Exposure Hazards</b>	Combustion or thermal decomposition may evolve toxic or irritant vapours.

<b>6 ACCIDENTAL RELEASE MEASURES</b>	
<b>Personal Precautions (See also box 8)</b>	Wear suitable personal protective equipment.
<b>Environmental Precautions</b>	Keep away from drains, surface and ground water, and soil.
<b>Clean-up Procedure (See also box 13)</b>	Collect up spilt material and transfer to a suitable container for subsequent disposal.

<b>7 HANDLING AND STORAGE (SEE ALSO BOX 8)</b>	
<b>Handling</b>	No specific handling requirements.
<b>Storage</b>	Store in original container in a cool, dry, ventilated place out of the reach of children and away from food, drink and animal feeding stuffs.

<b>8 EXPOSURE CONTROLS/PERSONAL PROTECTION</b>	
<b>Exposure Standard - Directive EC/98/24 (1<sup>st</sup> IOELV Directive)</b>	Workplace Exposure Limit (WEL) for propylene glycol is 474 mg/m <sup>3</sup> long-term exposure (8 hour Time Weighted Average) (TWA). Propylene glycol is referred to as propane-1,2-diol in Directive EC/98/24 (1 <sup>st</sup> IOELV Directive). WEL for sodium benzoate is for total inhalable dust: 10 mg/m <sup>3</sup> long-term exposure (8 hour TWA). Respirable dust: 4 mg/m <sup>3</sup> long-term exposure (8 hour TWA).
<b>Engineering Controls</b>	Where exposure may occur, engineering controls, rather than the provision of Personal Protective Equipment (PPE) should be employed. On completion of a risk assessment, the following PPE may be required:
<b>Eye Protection</b>	None necessary during normal handling and use.
<b>Hand Protection</b>	None necessary during normal handling and use.
<b>Skin Protection</b>	None necessary during normal handling and use.
<b>Breathing Protection</b>	None necessary during normal handling and use.
<b>Environmental Exposure Controls</b>	Use only in accordance with instructions given.

<b>9 PHYSICAL AND CHEMICAL PROPERTIES</b>			
<b>Appearance and Odour</b>	A blue, grain-based bait with no perceptible odour.		
<b>pH</b>	Not applicable.	<b>Solubility in Water</b>	Insoluble.
<b>Density</b>	1.2g/cm <sup>3</sup>	<b>Solubility in Other Solvents</b>	Insoluble.
<b>Flash Point</b>	Not applicable.	<b>Explosive Properties</b>	None.
<b>Flammability</b>	Non-flammable.	<b>Combustibility</b>	Combustible.
<b>Boiling Point/Range</b>	Not applicable.	<b>Oxidising Properties</b>	None.
<b>Vapour Density</b>	Not applicable.	<b>Evaporation Rate</b>	Not applicable
<b>Vapour Pressure</b>	Not applicable.	<b>Partition Coefficient</b>	Not applicable.
<b>Viscosity</b>	Not applicable.	<b>Other Data</b>	Decomposes before melting at around 240°C

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## 10 STABILITY AND REACTIVITY

<b>Conditions to avoid</b>	Avoid extremes of temperature, e.g. below 0°C and above 40°C.
<b>Materials to avoid</b>	None.
<b>Hazardous Breakdown Products</b>	Combustion or thermal decomposition may evolve toxic or irritant vapours.

## 11 TOXICOLOGICAL INFORMATION (SEE ALSO BOX 2)

<b>Acute Toxicity</b>	Oral	For bromadiolone : LD <sub>50</sub> (rat) : 1.125 mg/kg.
	Inhalation	For bromadiolone : LC <sub>50</sub> 0.43µg/L
	Dermal	Not determined.
<b>Corrosivity/Irritation</b>	Skin	Not determined.
	Eyes	Not determined.
	Respiratory tract	Not determined.
<b>Sensitisation</b>	Skin	Contains no known skin sensitisers.
	Respiratory	Contains no known respiratory sensitisers.
<b>Repeat-Dose Toxicity</b>		Product does not contain any components known to have any effects relating to repeated-dose toxicity.
<b>Mutagenicity</b>		Product does not contain any components known to have a mutagenic effect.
<b>Carcinogenicity</b>		Product does not contain any components known to have a carcinogenic effect.
<b>Reproductive Toxicity</b>	Fertility	Product does not contain any components known to have effects on fertility.
	Development	Product does not contain any components known to be toxic to the reproductive system.
<b>Other Information</b>		None known.

## 12 ECOLOGICAL INFORMATION

<b>General Information</b>	The bromadiolone and denatonium benzoate in this product are classified as harmful to aquatic organisms and may cause long-term adverse effects in the aquatic environment. However, when used in accordance with instructions given, controlled release of this product is not expected to cause environmental contamination.
<b>Ecotoxicity Data</b>	For bromadiolone : LC <sub>50</sub> (Bluegill sunfish) (96hr) : 3.0 mg/L : LC <sub>50</sub> (Rainbow trout) (96hr) : 1.4 mg/L : LC <sub>50</sub> (Daphnia) (48hr) : 2.0 mg/L : E <sub>b</sub> C <sub>50</sub> (Algae: <i>Scenedesmus subspicatus</i> ) (72hr): 0.17mg/L For denatonium benzoate : LC <sub>50</sub> (Rainbow trout) (96hr) : >1000 mg/L : EC <sub>50</sub> ( <i>Daphnia magna</i> ) (48hr) : 1.4 mg/L : LC <sub>50</sub> (Shrimp) (96hr) : 400 mg/L
<b>Mobility</b>	Not determined.
<b>Persistence and Degradability</b>	Not determined.
<b>Bioaccumulative Potential</b>	Not determined.
<b>Other Adverse Effects</b>	None known.

## 13 DISPOSAL CONSIDERATIONS

<b>Disposal of Waste / Containers</b>	This product is for amateur use only and can therefore be disposed of as normal household waste. However, if used in a place of work, ensure this product is disposed of as controlled (hazardous) waste, in accordance with the appropriate regulations.
<b>Classification</b> (Council Directive 91/689/EC, Commission Decision 2000/532/EC (amended) Commission Decision 2001/118/EC))	<u>Hazard Code</u> : Not classified.
<b>Note for Disposal</b>	<u>Components making the waste hazardous</u> : Not required. <u>Concentrations (%)</u> : For further advice about disposal, in the UK, contact the local office of the Environment Agency (England and Wales) or Scottish Environment Protection Agency. Local rate from anywhere in the UK: +44 (0) 870 850 6506.

<b>14 TRANSPORT INFORMATION (INTERNATIONAL UNLESS OTHERWISE INDICATED)</b>				
<b>UN No.</b>	Not classified.	<b>Tremcard Reference No.</b>	Not required.	<b>RIS Code</b>
<b>Transport Category</b>	Not required.	<b>UK Hazchem EAC</b>	Not required.	PSD 65
<b>ADR 2005 (International Road) Proper Shipping Name</b>	<b>Class</b> Not required.	<b>ADR HIN</b>	Not required.	<b>Labels</b>  Not required.
<b>Limited Quantity Exemptions</b>	Not required.			
<b>Special Requirements</b>	Not required.	<b>Packing Group</b>	Not required.	
<b>IMDG 2004 (Sea) Proper Shipping Name</b>	<b>Class</b> Not required.	<b>IMDG EMS</b>	Not required.	
<b>Limited Quantity Exemptions</b>	Not required.			
<b>Special Requirements</b>	Not required.	<b>Packing Group</b>	Not required.	
<b>Note for Transport</b>	Local, State or National requirements may apply to the carriage of this product.			

<b>15 REGULATORY INFORMATION (HEALTH AND SAFETY INFORMATION (SEE ALSO BOX 2))</b>	
<b>Safety Phrases</b>	Safety phrases are not required.
<b>Additional Label Phrases</b>	To avoid risks to man and the environment, comply with the instructions for use.
<b>Legislation</b>	<p>Labelling is in accordance with UK regulations implementing the EC Directive 1999/45.</p> <p>Additional labelling requirements may be necessary in accordance with other National legislation. Outside the UK, the registration of this product may be necessary before use and any additional local requirements must be observed at all times.</p> <p>The information given on this Safety Data Sheet (SDS) <b>does not</b> constitute an assessment in accordance with Control of Substances Hazardous to Health (COSHH) Regulations 2002, in the UK. Other National measures or guidance should be followed where appropriate.</p>

<b>16 Other Information and indication of revisions</b>	
Bitrex® is a registered trademark of Macfarlan Smith Ltd.	
<b>Packaging Information</b>	Cardboard carton containing 6 x high impact polystyrene trays, inside low density polyethylene bags, each containing 48 blocks.
<b>Revisions</b>	Changes have been made to the content of boxes 01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11, 12, 13, 14, 15 & 16 (as indicated by the thick lines on the left-hand side of the boxes) compared with issue 02.
<b>Risk phrase text</b> (From box 3 - These refer to the ingredients only. See box 2 for the product risk phrases)	R20/22 : Harmful by inhalation and if swallowed. R26/27/28 : Very toxic by inhalation, in contact with skin and if swallowed. R38 : Irritating to skin. R41 : Risk of serious damage to eyes. R50,53 : Very toxic to aquatic organisms , may cause long-term adverse effects in the aquatic environment. R52,53 : Harmful to aquatic organisms, may cause long-term effects in the aquatic environment.

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**Before using any product, ensure that you read and understand its label.**

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Telephone: +44 (0) 1342 833022 Fax: +44 (0) 1342 836180 Web: [www.ri-research.com](http://www.ri-research.com)