

Safety Data Sheet

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Issue : 03 09 : 01 : 2007

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY	
PRODUCT NAME	Deadline Rat Blocks
DESCRIPTION	A blue ready-to-use, grain-based bait blocks. Contains a bittering additive. For professional use in the control of rats indoors and outdoors.
COMPANY	Rentokil Initial Supplies, Liverpool, L33 7SR. Product advice line: 0151 548 5050. Emergency line: +44 (0)1342 833 022.

2 HAZARD IDENTIFICATION
CLASSIFICATION AND DANGER SYMBOL (SUPPLY – USE) : IN COMPLIANCE WITH EC DIRECTIVE 1999/45.
Not classified
ADVERSE PHYSICAL, CHEMICAL, SIGNIFICANT HUMAN HEALTH AND ENVIRONMENTAL EFFECTS (SEE ALSO BOX 11):
This product contains an anticoagulant compound. If sufficient quantities are ingested, nose-bleed and bleeding gums may occur. In severe case there may be bruising, haematomas of the joints and blood present in the urine and faeces.
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
0.005	Bromadiolone* / 3-[3-(4'-bromobiphenyl-4-yl)-3-hydroxy-1-phenylpropyl]-4-hydroxycoumarin. EINECS: 249-205-9 CAS: 28772-56-7	T+ : R26/27/28 N : R50,53
≤1.0	Bitrex™* / denatonium benzoate EINECS : 223-095-2 CAS : 3734-33-6	X _n : R20/22 X _i : R38 X _i : R41
> 2.5 ≤10.0	Propylene glycol* / propane-1,2-diol EINECS : 200-338-0 CAS : 57-55-6	: R52,53 Not classified.

Deadline Rat Blocks

4 FIRST-AID MEASURES (SEE ALSO "ADVERSE EFFECTS" IN BOX 2)	
INHALATION	This route of exposure is not anticipated.
EYE CONTACT	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.
SKIN CONTACT	Remove and wash contaminated clothing immediately. Wash affected area thoroughly with soap and water. If the patient feels unwell seek medical advice.
INGESTION (SWALLOWING)	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.
EMERGENCY EQUIPMENT SUGGESTED	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".
NOTE TO DOCTOR	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.

5 FIRE FIGHTING MEASURES	
FIRE EXTINGUISHER TYPE	Use foam, water, carbon dioxide or dry powder extinguishers.
SPECIAL FIRE-FIGHTING PROCEDURES	Wear self-contained breathing apparatus and suitable protective clothing.
SPECIAL EXPOSURE HAZARDS	Combustion or thermal decomposition may evolve toxic or irritant vapours.

6 ACCIDENTAL RELEASE MEASURES	
PERSONAL PRECAUTIONS (See also box 8)	Wear suitable personal protective equipment.
ENVIRONMENTAL PRECAUTIONS	Keep away from drains, surface and ground water, and soil.
CLEAN-UP PROCEDURE (See also box 13)	Collect up spilt material and transfer to a suitable container for subsequent disposal.

7 HANDLING AND STORAGE (SEE ALSO BOX 8)	
HANDLING	No specific handling requirements.
STORAGE	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.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION	
EXPOSURE STANDARD - DIRECTIVE EC/98/24 (1ST IOELV DIRECTIVE)	WEL for propylene glycol for total (vapour and particulates) is 474 mg/m ³ long term exposure (8 hour Time Weighted Average) and for particulates is 10 mg/m ³ long-term exposure (8 hour TWA). Propylene glycol is referred to as propane-1,2-diol in Directive EC/98/24 (1 ST IOELV Directive).
ENGINEERING CONTROLS	Where prevention of exposure is not reasonably practicable, adequate control of exposure should be achieved by engineering controls rather than the provision of personal protective equipment and clothing. More specific details cannot be given without carrying out a full risk assessment for each and every use scenario. Suitable and approved personal protective equipment and clothing may include the following item(s):
EYE PROTECTION	Label advice indicates none necessary under normal handling and use. However, consider other precautionary requirements.
HAND PROTECTION	Label advice indicates none necessary under normal handling and use. However, consider other precautionary requirements.
SKIN PROTECTION	Label advice indicates none necessary under normal handling and use. However, consider other precautionary requirements.
BREATHING PROTECTION	Label advice indicates none necessary under normal handling and use. However, consider other precautionary requirements.
ENVIRONMENTAL EXPOSURE CONTROLS	Use only in accordance with instructions given.

9 PHYSICAL AND CHEMICAL PROPERTIES			
APPEARANCE AND ODOUR	A blue, grain-based bait block with no perceptible odour.		
pH	Not applicable.	SOLUBILITY IN WATER	Insoluble.
DENSITY	1.3 g/cm ³ at 20°C	SOLUBILITY IN FAT	Insoluble.
FLASH POINT	Not applicable.	EXPLOSIVE PROPERTIES	None known.
FLAMMABILITY	Non-flammable.	COMBUSTIBILITY	Combustible.
AUTOFLAMMABILITY	Not applicable.	OXIDISING PROPERTIES	Not determined.
BOILING POINT/RANGE	Not applicable.	MELTING POINT	Decomposes before melting at around 240°C
VAPOUR DENSITY	Not applicable.	EVAPORATION RATE	Not applicable.
VAPOUR PRESSURE	Not applicable.	PARTITION COEFFICIENT	Not applicable.
VISCOSITY	Not applicable.	OTHER DATA	None known.

Deadline Rat Blocks

10 STABILITY AND REACTIVITY	
CONDITIONS TO AVOID	Avoid extremes of temperature, e.g. below 0°C and above 40°C.
MATERIALS TO AVOID	None.
HAZARDOUS BREAKDOWN PRODUCTS	Combustion or thermal decomposition may evolve toxic or irritant vapours.

11 TOXICOLOGICAL INFORMATION (SEE ALSO BOX 2)	
ACUTE TOXICITY	ORAL LD ₅₀ (rat) : 6233 to 8014 mg/kg (product). INHALATION Not determined. DERMAL Not determined.
CORROSIVITY/ IRRITATION	SKIN Product is not expected to be irritating to skin. EYES Product is not expected to be irritating to eyes. RESPIRATORY TRACT Product is not expected to be irritating to the respiratory tract.
SENSITISATION	SKIN Contains no known skin sensitisers. RESPIRATORY Contains no known respiratory sensitisers.
REPEAT-DOSE TOXICITY	Product does not contain any components known to have any effects relating to repeated-dose toxicity.
MUTAGENICITY	Product does not contain any components known to have a mutagenic effect.
CARCINOGENICITY	Product does not contain any components known to have a carcinogenic effect.
REPRODUCTIVE TOXICITY	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.
OTHER INFORMATION	None.

12 ECOLOGICAL INFORMATION	
General Information	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.
Ecotoxicity Data	For bromadiolone : LC ₅₀ (Bluegill sunfish) (96hr) : 3.0 mg/L : LC ₅₀ (Rainbow trout) (96hr) : 1.4 mg/L : LC ₅₀ (Daphnia) (48hr) : 2.0 mg/L : E _b C ₅₀ (Algae: <i>Scenedesmus subspicatus</i>) (72hr): 0.17mg/L For denatonium benzoate : LC ₅₀ (Rainbow trout) (96hr) : >1000 mg/L : EC ₅₀ (<i>Daphnia magna</i>) (48hr) : 1.4 mg/L : LC ₅₀ (Shrimp) (96hr) : 400 mg/L
Mobility	Not determined.
Persistence and Degradability	Not determined.
Bioaccumulative Potential	Not determined.
Other Adverse Effects	None known.

13 DISPOSAL CONSIDERATIONS	
DISPOSAL OF WASTE/ CONTAINERS	This product does not present a hazard to humans or the environment for the purposes of disposal. However, this product should be disposed of as controlled waste.
CLASSIFICATION OF INGREDIENTS. (Council Directive 91/689/EC, Commission Decision 2000/532/EC (amended) Commission Decision 2001/118/EC)	Hazard Code: Not classified. Components making the waste hazardous Concentrations (%): Not required.
NOTE FOR DISPOSAL	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.

14 TRANSPORT INFORMATION (INTERNATIONAL UNLESS OTHERWISE INDICATED)				
UN No.	Not Classified.	TREMCARD REFERENCE No.	Not required.	RIS CODE
TRANSPORT CATEGORY	Not required.	UK HAZCHEM EAC	Not required.	PSD66
ADR 2005 (INTERNATIONAL ROAD)	CLASS Not required.	ADR HIN	Not required.	LABELS Not required.
PROPER SHIPPING NAME	Not required.			
LIMITED QUANTITY EXCEPTIONS	Not required.			
SPECIAL REQUIREMENTS	Not required.	PACKING GROUP	Not required.	
IMDG 2004 (SEA)	CLASS Not required.	IMDG EMS	Not required.	
PROPER SHIPPING NAME	Not required.			
LIMITED QUANTITY EXCEPTIONS	Not required.			
SPECIAL REQUIREMENTS	Not required.	PACKING GROUP	Not required.	
NOTE FOR TRANSPORT	Local, State or National requirements may apply to the carriage of this product.			

15 REGULATORY INFORMATION (HEALTH AND SAFETY INFORMATION (SEE ALSO BOX 2))	
HAZARD SYMBOLS	Safety phrases are not required.
ADDITIONAL LABEL PHRASES	To avoid risks to man and the environment, comply with the instructions for use.
LEGISLATION	<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) does not 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>

16 OTHER INFORMATION and indication of revisions	
Bitrex™ is a registered trademark of Macfarlan Smith Ltd.	
PACKAGING INFORMATION	Cardboard carton containing 6 x high impact polystyrene trays, inside low density polyethylene bags, each containing 48 blocks.
REVISIONS	Changes have been made to the content of boxes 01, 03, 04, 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.
RISK PHRASE TEXT (From box 3 - These refer to the ingredients only. See box 2 for the product risk phrases)	<p>R20/22 : Harmful by inhalation and if swallowed.</p> <p>R26/27/28 : Very toxic by inhalation, in contact with skin and if swallowed.</p> <p>R38 : Irritating to skin.</p> <p>R41 : Risk of serious damage to eyes.</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 effects in the aquatic environment.</p>

Deadline Rat Blocks

SDS No. 760

Issue : 03

09 : 01 : 2007

Page 4 of 4

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

The information contained in this safety data sheet is, to the best of our knowledge and belief, accurate and reliable at the time of publication. The information relates only to the specific material designated in this safety data sheet and may not be valid for such material if it is used in combination with any other material(s) or any other use than that specified herein. B&Q plc is not liable for the use of this product for any other purpose than that described in this safety data sheet. This does not affect your statutory rights. It is the user's responsibility to satisfy him/herself as to the suitability in completeness of such information for his/her own particular use.

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