

Products

Safety Data Sheet

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REVISION (see box 16)

Issue : 09 17 : 10 : 2006

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY	
Product Name	DEADLINE
Description	A rodenticide for professional use. A blue ready to use whole grain bait with no perceptible odour. Contains Bitrex® bittering agent.
Company	Rentokil Initial Supplies, Liverpool, L33 7SR. Product advice line: 0151 548 5050. Emergency line: 0800 731 6 731.

2 HAZARD IDENTIFICATION
Classification (Supply – Use) : In compliance with EC Directive 1999/45.
Not classified
Adverse Physical, Chemical, Significant Human Health and Environmental Effects (See also box 11):
None 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'-bromo[1,1'-biphenyl]-4-yl)-3-hydroxy-1-phenylpropyl]-4hydroxy-coumarin EINECS : 249-205-9 CAS : 28772-56-7	T+ : R26/27/28 N : 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 _n : R20/22 X _i : R38 : R41 : R52,53

DEADLINE

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 carbon dioxide, foam, water, or dry powder extinguishers.
Special Fire-Fighting Procedures	Wear suitable personal protective equipment.
Special Exposure Hazards	Combustion or thermal decomposition may evolve toxic and 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 re-use or 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)	Workplace Exposure Limit (WEL) for propylene glycol is 474 mg/m ³ long-term exposure (8 hour Time Weighted Average)
Engineering Controls	Propylene glycol is referred to as propane-1,2-diol in Directive EC/98/24 (1 st IOELV Directive). 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:
Eye Protection	None necessary during normal handling and use.
Hand Protection	None necessary during normal handling and use.
Skin Protection	None necessary during normal handling and use.
Breathing Protection	None necessary during normal handling and use
Environmental Exposure Controls	Use only in accordance with instructions given.

9 PHYSICAL AND CHEMICAL PROPERTIES			
Appearance and Odour	A blue ready to use whole grain bait with no perceptible odour. Contains Bitrex® a bittering agent.		
PH	Not applicable.	Solubility in Water	Insoluble.
Density	0.7 g/cm ³	Solubility in Other Solvents	Not determined.
Flash Point	Not applicable.	Explosive Properties	None.
Flammability	Non-flammable.	Combustibility	Combustible.
Boiling Point/Range	Not applicable.	Oxidising Properties	None.
Vapour Density	Not applicable.	Evaporation Rate	Not applicable.
Vapour Pressure	Not applicable.	Partition Coefficient	Not applicable.
Viscosity	Not applicable.	Other Data	None known.

DEADLINE

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 and irritant vapours.

11 TOXICOLOGICAL INFORMATION (SEE ALSO BOX 2)

Acute Toxicity	Oral	For bromadiolone : LD ₅₀ (rat) : 1.125 mg/kg.
	Inhalation	For bromadiolone : LC ₅₀ 0.43µg/L
	Dermal	Not determined.
Corrosivity/Irritation	Skin	Not determined.
	Eyes	Not determined.
	Respiratory tract	Not determined.
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 known.

12 ECOLOGICAL INFORMATION

General Information	This product does not contain any substances that are classified as dangerous to the environment present above the lower limits of concentration as specified in EC Directive 1999/45. Controlled release of this product is not expected to cause environmental contamination. Use only in accordance with instructions given.
Ecotoxicity Data	For bromadiolone : LC ₅₀ (Bluegill sunfish) (96hr) : 3.0 mg/L : LC ₅₀ (Rainbow trout) (96hr) : 1.4mg/L : LC ₅₀ (<i>Daphnia</i>) (48hr) : 2.0mg/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	Waste should be disposed of in accordance with local, State or National requirements.
Classification (Council Directive 91/689/EC, Commission Decision 2000/532/EC (amended) Commission Decision 2001/118/EC))	<u>Hazard Code</u> : Not classified.
Note for Disposal	<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.

DEADLINE

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.	PSD12 PSD52 PSD64 PSD63 0309
ADR 2005 (International Road) Proper Shipping Name	Class Not required.	ADR HIN	Not required.	Labels Not required.
Limited Quantity Exemptions	Not required.			
Special Requirements	Not required.	Packing Group	Not required.	
IMDG 2004 (Sea) Proper Shipping Name	Class Not required.	IMDG EMS	Not required.	Labels Not required.
Limited Quantity Exemptions	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))

Safety Phrases	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	12.5 kg round plastic tub with a snap-on lid containing loose whole grain wheat bait. 20 kg plastic sack containing loose whole grain wheat bait.
Revisions	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 08.
Risk phrase text (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.

DEADLINE

SDS No. 047

Issue : 09

17 : 10 : 2006

Page 4 of 4

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

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