

# Safety Data Sheet

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**REVISION (see box 16)**
**Issue : 03 01 : 07 : 2004**
**1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY**

<b>PRODUCT NAME</b>	<b>FENTROL MOUSE BLOCKS (with Bitrex™)</b>
<b>DESCRIPTION</b>	A blue, ready-to-use rodenticidal grain-based bait block with no perceptible odour. For use by professional operators for the control of mice.
<b>COMPANY</b>	Rentokil Initial UK Ltd, Pest Control, Felcourt, East Grinstead, West Sussex. RH19 2JY. United Kingdom. Telephone: +44 (0)1342 833022 Facsimile: +44 (0)1342 326229

**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):**

Combustion or thermal decomposition may evolve toxic or irritant vapours.  
 This product contains an anticoagulant compound. If large quantities are ingested nosebleed and bleeding gums may occur. In severe cases there may be bruising, haematomas of the joints and blood present in the faeces and urine.  
 Adverse effects on the environment are unlikely, provided that the product is used as intended.

**3 COMPOSITION / INFORMATION ON INGREDIENTS (SEE ALSO BOX 16)**

% w/w	COMMON*/CHEMICAL NAME, ELINCS/EINECS AND CAS REGISTRY NUMBER OF INGREDIENTS	EC 1999/45 CLASSIFICATION
0.01	Difenacoum* / 3-(3-(4-biphenyl)-1,2,3,4-tetrahydro-1-naphthyl)-4-hydroxycoumarin EINECS : 259-978-4 CAS : 56073-07-5	T+ : R28 T : R48/22 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 <sub>n</sub> : R20/22 X <sub>i</sub> : R38 X <sub>i</sub> : R41 R52,53

<b>4 FIRST-AID MEASURES (SEE ALSO "ADVERSE EFFECTS" IN BOX 2)</b>	
<b>INHALATION</b>	Unlikely route of exposure. However, remove patient to fresh air, keep warm and at rest. Apply supportive measures if necessary and seek medical attention.
<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. Telephone +44 (0) 870 600 6266 - 24 hours.

<b>5 FIRE FIGHTING MEASURES</b>	
<b>FIRE EXTINGUISHER TYPE</b>	Use foam, water, carbon dioxide or dry powder extinguishers.
<b>SPECIAL FIRE-FIGHTING PROCEDURES</b>	Wear self-contained breathing apparatus and suitable 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>	DO NOT contaminate watercourses or ground.
<b>CLEAN-UP PROCEDURE (See also box 13)</b>	Collect up spilt material and transfer into a suitable container for re-use or subsequent disposal.

<b>7 HANDLING AND STORAGE</b>	
<b>HANDLING</b>	Avoid all contact by mouth. Wash hands and exposed skin before meals and after use.
<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 (SEE ALSO BOX 7)</b>	
<b>EXPOSURE STANDARD – DIRECTIVE EC/98/24 (1<sup>ST</sup> IOELV DIRECTIVE)</b>	OES for propylene glycol for total (vapour and particulates) is 474 mg/m <sup>3</sup> long-term exposure (8 hour Time Weighted Average) and 10 mg/m <sup>3</sup> short-term exposure (15 minute reference period). Propylene glycol is referred to as propane-1,2-diol in Directive EC/98/24 (1 <sup>ST</sup> IOELV Directive).
<b>ENGINEERING CONTROLS</b>	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):
<b>EYE PROTECTION</b>	None necessary under normal working conditions.
<b>HAND PROTECTION</b>	None necessary under normal working conditions.
<b>SKIN PROTECTION</b>	None necessary under normal working conditions.
<b>BREATHING PROTECTION</b>	None necessary under normal working conditions.
<b>ENVIRONMENTAL EXPOSURE CONTROLS</b>	Product should be used in accordance with instructions given.

<b>9 PHYSICAL AND CHEMICAL PROPERTIES</b>			
<b>APPEARANCE AND ODOUR</b>	A blue, grain-based bait block with no perceptible odour.		
<b>pH</b>	Not applicable.	<b>SOLUBILITY IN WATER</b>	Insoluble.
<b>BULK DENSITY</b>	1.2 - 1.3 g/cm <sup>3</sup> at 20°C	<b>SOLUBILITY IN FAT</b>	Insoluble.
<b>FLASH POINT</b>	Not applicable.	<b>EXPLOSIVE PROPERTIES</b>	None.
<b>FLAMMABILITY</b>	Non-flammable.	<b>COMBUSTIBILITY</b>	Combustible.
<b>AUTOFLAMMABILITY</b>	Not applicable.	<b>OXIDISING PROPERTIES</b>	Not determined.
<b>BOILING POINT/RANGE</b>	Not applicable.	<b>MELTING POINT/RANGE</b>	Decomposes before melting at > 200°C.
<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>	None.

## 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 similar product: LD <sub>50</sub> (rat) : > 2000 mg/kg. If sufficient quantities are ingested, nose-bleed and bleeding gums may occur. In severe cases there may be bruising, haematomas of the joints and blood present in the urine and faeces.	
	Unlikely route of exposure.	
	INHALATION	Not determined.
	DERMAL	Unlikely to cause skin irritation.
<b>CORROSIVITY/ IRRITATION</b>	SKIN	Unlikely to cause eye irritation.
	EYES	Unlikely to be irritating to the respiratory tract.
	RESPIRATORY TRACT	
<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 DEVELOPMENT		Product does not contain any components known to have effects on fertility.
		Product does not contain any components known to be toxic to the reproductive system.
<b>OTHER INFORMATION</b>		Difenacoum 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 for two weeks after withdrawal of antidote and resume treatment if elevation occurs in that time.

## 12 ECOLOGICAL INFORMATION

<b>GENERAL INFORMATION</b>	The full ecotoxicological profile of this product has not been evaluated. Do not contaminate the environment.
<b>ECOTOXICITY DATA</b>	For difenacoum: LC <sub>50</sub> (rainbow trout) (96h) : 0.10 mg/L For Bitrex™: LC <sub>50</sub> (rainbow trout) (96h) : >1000 mg/L EC <sub>50</sub> ( <i>Daphnia magna</i> ) (48h) : 13 mg/L
<b>MOBILITY (of appropriate constituents)</b>	For Bitrex™: water solubility: 45 g/L.
<b>PERSISTENCE AND DEGRADABILITY (of appropriate constituents)</b>	For Bitrex™: Abiotic degradation: 10% after 5 days at 50°C at all pHs. Abiotic degradation: 10% after 30 days at 25°C at all pHs.
<b>BIOACCUMULATIVE POTENTIAL (of appropriate constituents)</b>	Bitrex™ has a low bioaccumulation potential.
<b>ENVIRONMENTAL CONSIDERATIONS</b>	DO NOT contaminate watercourses or ground. The difenacoum in this product is classified as very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. The Bitrex™ in this product is classified as harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Thus, every care must be taken to avoid its release and the subsequent contamination of the aquatic environment.
<b>OTHER ADVERSE EFFECTS</b>	None.

## 13 DISPOSAL CONSIDERATIONS

<b>DISPOSAL OF WASTE</b>	Under normal circumstances, waste will be disposed of by Rentokil Initial.
<b>DISPOSAL OF CONTAINERS:</b>	Under normal circumstances, empty containers will be disposed of by Rentokil Initial.
<b>CLASSIFICATION OF INGREDIENTS. (Council Directive 91/689/EC, Commission Decision 2000/532/EC (amended) Commission Decision 2001/118/EC))</b>	Hazard Code: Not classified.
<b>NOTE FOR DISPOSAL</b>	<u>Components making the waste hazardous Concentrations (%):</u> Not required.  Disposal should be in accordance with local, State or National requirements. 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: 0845 9333111.

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.	PSF121
ADR 2003 (INTERNATIONAL ROAD)	CLASS Not required.	ADR HIN	Not required.	LABELS
PROPER SHIPPING NAME	Not required.			Not required.
LIMITED QUANTITY EXCEPTIONS	Not required.			
SPECIAL REQUIREMENTS	Not required.	PACKING GROUP	Not required.	
IMDG 2002 (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	Not required.
INDICATION OF DANGER	Not required.
RISK PHRASES	Risk phrases are not required.
SAFETY PHRASES	Safety phrases are not required.
LEGISLATION	Labelling is according to UK regulations implementing the EC Directive 1999/45. Additional labelling requirements may be necessary in accordance with local legislation. Specific legislation used within this Safety Data Sheet is listed in the above boxes.

16 OTHER INFORMATION and indication of revisions	
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.	
<b>Before using any product, ensure that you read and understand its label.</b>	
Outside the UK, the registration of this product may be necessary before use and any additional local requirements must be observed at all times.	
Bitrex™ is a registered trademark of Macfarlan Smith Ltd.	
REVISIONS	Changes have been made to the content of boxes 1, 2, 3, 4, 6, 7, 8, 9, 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)	R28 : Very toxic if swallowed. R48/22 : Harmful: danger of serious damage to health by prolonged exposure if swallowed. R50,53 : Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R20/22 : Harmful by inhalation and if swallowed. R38 : Irritating to skin. R52,53 : Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

## FENTROL MOUSE BLOCKS (with Bitrex™)

SDS No. 590

Issue : 03

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**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. Rentokil Initial UK Ltd 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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