

Safety Data Sheet

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REVISION (see box 16)

Issue : 11 10 : 09 : 2009

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

Product Name	FENTROL GEL (with Bitrex®)	HSE 6766
Description	A blue, ready to use rodenticidal contact gel with no perceptible odour. For use by professional operators for the control of rats and mice.	
Company	Rentokil Initial Supplies, Liverpool, L33 7SR. Product advice line: +44 (0)151 548 5050 Emergency line: +44 (0)1293 858 000 E-mail: sds@rentokil.com	

2 HAZARD IDENTIFICATION

Classification (Supply – Use) : In compliance with EC Directive 1999/45.

X_n Harmful	R22	Harmful if swallowed.
Dangerous for the environment	R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Adverse Physical, Chemical, Significant Human Health and Environmental Effects (See also box 11):

This product contains an anticoagulant compound. If ingested symptoms, may include nosebleed and bleeding gums. In severe cases there may be bruising, haematomas of the joints and blood present in the faeces and urine.

The product may be slightly irritating to the eyes and may cause slight irritation to skin.

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
0.1	Difenacoum* / 3-(3-biphenyl-4-yl-1,2,3,4-tetrahydro-1-naphthyl)-4-hydroxycoumarin EINECS : 259-978-4 CAS : 56073-07-5	T+ : R28 : R48/25 N : R50,53
≤0.1	Bitrex®* / denatonium benzoate EINECS : 223-095-2 CAS : 3734-33-6	Xn : R20/22 : R38 : R41 : R52,53

FENTROL GEL (with Bitrex®)

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. Vitamin K1 is a known antidote.

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	This product may produce toxic fumes in a fire.

6 ACCIDENTAL RELEASE MEASURES	
Personal Precautions (See also box 8)	Wear suitable personal protective equipment.
Environmental Precautions	This product is classified as dangerous for the environment. Keep away from drains, surface and ground water, and soil.
Clean-up Procedure (See also box 13)	Absorb spill with an inert material such as sand, earth or sawdust. Transfer to a suitable container for subsequent disposal.

7 HANDLING AND STORAGE (SEE ALSO BOX 8)	
Handling	Avoid all contact by mouth. Wear suitable gloves.
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)	Not assigned.
Engineering Controls	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	Label advice indicates none necessary under normal handling and use. However, consider other precautionary requirements.
Hand Protection	Suitable hand protection such as gloves.
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 gel with no perceptible odour.		
pH	5.3-5.4 at 20°C	Solubility in Water	Soluble.
Density	1.1 g/cm ³ at 20°C	Solubility in Other Solvents	Insoluble.
Flash Point	Not applicable.	Explosive Properties	Believed to contain no explosive components.
Flammability	Non-flammable.	Combustibility	Non-combustible.
Boiling Point/Range	Not applicable.	Oxidising Properties	Believed to contain no oxidising components.
Vapour Density	Not applicable.	Evaporation Rate	Not applicable.
Vapour Pressure	Not applicable.	Partition Coefficient	Not applicable.
Viscosity	24,000 –30,000 cp at 20°C	Other Data	None known.

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10 STABILITY AND REACTIVITY

Conditions to avoid	Avoid extremes of temperature, e.g. below 0°C and above 40°C. Avoid sources of ignition.
Materials to avoid	Avoid contact with strong bases and strong oxidising agents.
Hazardous Breakdown Products	This product may produce toxic fumes in a fire.

11 TOXICOLOGICAL INFORMATION (SEE ALSO BOX 2)

Acute Toxicity	Oral	LD ₅₀ (male, rat): 1824 mg/kg LD ₅₀ (female, rat): 2237 mg/kg LD ₅₀ (female & male, rats): 2059 mg/kg
	Inhalation	This route of exposure is not anticipated.
	Dermal	LD ₅₀ (female & male, rats): >2000 mg/kg
Corrosivity/Irritation	Skin	Practically a non-irritant to rabbit skin.
	Eyes	Slightly irritating to rabbit eyes.
	Respiratory tract	Not determined.
Sensitisation	Skin	Classified as a weak sensitiser in guinea pigs according to the Magnusson-Kilgman classification.
	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		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 normalises. Continue determination of prothrombin time for two weeks after withdrawal of antidote and resume treatment if elevation occurs in that time.

12 ECOLOGICAL INFORMATION

General Information	This product is 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	<u>For Difenacoum:</u> LD ₅₀ (oral) (chickens): >50 mg/kg LC ₅₀ (96h) (rainbow trout): 0.1 mg/L LC ₅₀ (48h) (Daphnia): 0.52 mg/L
Mobility	Not determined.
Persistence and Degradability	Difenacoum is not readily biodegradable.
Bioaccumulative Potential	Not determined.
Other Adverse Effects	None known.

13 DISPOSAL CONSIDERATIONS

Disposal of Waste / Containers	This product is dangerous for the environment. Do not discharge to sewers, drains or watercourses. This product must be disposed of as hazardous waste. Empty containers may be disposed of as controlled waste in accordance with the appropriate regulations. Under normal circumstances, waste product / empty containers will be disposed of by Rentokil Initial.				
Classification (Council Directive 91/689/EC, Commission Decision 2000/532/EC (amended) Commission Decision 2001/118/EC))	<u>Hazard Code:</u> H5-Harmful				
Note for Disposal	<table border="0"><tr><td><u>Components making the waste hazardous</u></td><td><u>Concentrations (%):</u></td></tr><tr><td>Difenacoum</td><td>0.1</td></tr></table> The best means of disposal of any product is through proper use according to the label. 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	<u>Components making the waste hazardous</u>	<u>Concentrations (%):</u>	Difenacoum	0.1
<u>Components making the waste hazardous</u>	<u>Concentrations (%):</u>				
Difenacoum	0.1				

14 TRANSPORT INFORMATION (INTERNATIONAL UNLESS OTHERWISE INDICATED)			
UN No.	Not classified.		RIS Code
Transport Category	Not required.	UK Hazchem EAC	Not required.
			PSF124 (Export) PSF15 (UK)
ADR 2009 (International Road)	Class Not required.	ADR HIN Not required.	Labels Not required.
Proper Shipping Name	Not required.		
Limited Quantity Exemptions	Not required.		
Special Requirements	Not required.		
IMDG 2008 (Sea)	Class Not required.	IMDG EMS Not required.	Not required.
Proper Shipping Name	Not required.		
Limited Quantity Exemptions	Not required.		
Special Requirements	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	S35: This material and its container must be disposed of in a safe way. S37: Wear suitable gloves. S45: In case of accident or if you feel unwell seek medical advice immediately (show the label where possible).
Additional Label Phrases	To avoid risks to man and the environment, comply with the instructions for use. .
Legislation	Labelling is in accordance with UK regulations implementing the EC Directive 1999/45. 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. 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.

16 Other Information and indication of revisions	
	Bitrex [®] is a registered trademark of Macfarlan Smith Ltd.
Packaging Information	High density polypropylene container with snap on lid containing 500g of gel.
Revisions	Changes have been made to the content of boxes 01, 02, 03, 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 10.
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. R28 : Very toxic if swallowed. R38 : Irritating to skin. R41 : Risk of serious damage to eyes. R48/25 : Toxic: danger of serious damage to health by prolonged exposure if swallowed. R52,53 : Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R50,53 : Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

FENTROL GEL (with Bitrex[®])

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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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