

Safety Data Sheet

NOTE: Access to a copy of this Safety Data Sheet (SDS) via our Website does not constitute the issue of a controlled Copy under EU legislation. To be issued with such a copy please contact Rentokil Initial using the details below. In order to confirm the latest version of the SDS for this product visit <http://www.rentokil-initial.com/sds/>

Issue : 1

08 : 11 : 2012

SECTION 1 Identification of the substance/mixture and of the company/undertaking.		
1.1 Product identifier	Deadline Difenacoum Paste Bait	UK-2011-0148
1.2 Relevant identified uses of the substance or mixture and uses advised against	A blue, ready-to-use rodenticidal paste bait with no perceptible odour and a bittering agent. For use by professional operators to control mice indoors.	
1.3 Details of the supplier of the safety data sheet	Rentokil Initial Supplies, Liverpool, L33 7SR, UK. Product advice line: +44 (0)151 548 5050 Emergency line: +44 (0)1342 833 022 E-mail: sds@rentokil.com	
National contact	Rentokil Initial Supplies, Liverpool, L33 7SR, UK. Product advice line: +44 (0)151 548 5050 Emergency line: +44 (0)1342 833 022 E-mail: sds@rentokil.com	
1.4 Emergency telephone number	0844 892 011 (for use by medical professionals only).	

SECTION 2 Hazards Identification	
2.1 Classification of the substance or mixture	
Classification according to Regulation (EC) 1272/2008.	
Not applicable. See section 16.	
Classification according to Directive 1999/45/EC (See section 16)	
Not classified.	
2.2 Label elements	
Risk phrase(s) (R), in full / Hazard statement(s) (H), in full.	Not required.
Safety phrase(s) (S), in full / Precautionary Statement(s) (P), in full.	S1/2: Keep locked up and out of reach of children. S13: Keep away from food, drink and animal feedingstuffs. S20/21: When using do not eat, drink or smoke. S45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Precautionary statements are not required.
2.3 Other hazards	

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.

SECTION 3 Composition/Information on Ingredients (See section 16)

3.2 Mixtures

% w/w	Common*/ Chemical Name (IUPAC)	CAS No.	EC No.	Index No.	REACH Registration No.	Directive 67/548/EEC classification	Regulation (EC) No 1272/2008 classification
0.005	Difenacoum* / 3-(3-biphenyl-4-yl-1,2,3,4-tetrahydro-1-naphthyl)-4-hydroxycoumarin	56073-07-5	259-978-4	607-157-00-X	-	T+: R28 T: R48/25 N: R50/53	Acute Tox. 2 : H300 STOT RE 1 : H372 Aquatic Acute 1 : H400 Aquatic Chronic 1 : H410

SECTION 4 First-Aid Measures

4.1 Description of first aid measure

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.

4.2 Most important symptoms and effects both acute and delayed

Emergency Equipment Suggested	Appropriate first-aid equipment should be provided.
-------------------------------	---

4.3 Indication of any immediate medical attention and special treatment needed

Note To Doctor	Further information on all Rentokil Initial formulations is lodged with the local National Poisons Information Service.
Antidote	Vitamin K1 is antidotal.

SECTION 5 Fire Fighting Measures

5.1 Extinguishing media

Suitable extinguishing media	Use carbon dioxide, foam, water, or dry powder extinguishers.
Unsuitable extinguishing media	None known.

5.2 Special hazards arising from the mixture

5.2 Special hazards arising from the mixture	Combustion or thermal decomposition may evolve toxic or irritant vapours.
--	---

5.3 Advice for fire fighters

5.3 Advice for fire fighters	Wear suitable personal protective equipment.
------------------------------	--

SECTION 6 Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

6.1 Personal precautions, protective equipment and emergency procedures	Wear suitable personal protective equipment.
---	--

6.2 Environmental precautions

6.2 Environmental precautions	Keep away from drains, surface and ground water, and soil.
-------------------------------	--

6.3 Methods and material for containment and cleaning up

6.3 Methods and material for containment and cleaning up	Collect up spilt material and transfer to a suitable container for re-use or subsequent disposal.
--	---

6.4 Reference to other sections	Please also see sections 8 and 13 for further information.
Additional information	Clear spills immediately.

SECTION 7 Handling and Storage

7.1 Precautions for safe handling	Wear gloves.
7.2 Conditions for safe storage, including any incompatibilities	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.
7.3 Specific end use(s)	Rodenticide.

SECTION 8 Exposure Controls/Personal Protection

8.1 Control Parameters

Exposure standard - Directive 98/24/EC (1st IOELV Directive)	Workplace Exposure Limit (WEL) long-term exposure (8 hour Time Weighted Average)	Not applicable.
	Workplace Exposure Limit (WEL) short-term exposure (15 minute reference period)	Not applicable.
	Substance name used in Directive EC/98/24 (1st IOELV Directive)	Not applicable.

8.2 Exposure Controls

Appropriate 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:
Individual Protection Measures	
Eye/face 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/body protection	Label advice indicates none necessary under normal handling and use. However, consider other precautionary requirements.
Respiratory 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.

SECTION 9 Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Appearance, odour and physical state	A blue, ready-to-use rodenticidal paste bait with no perceptible odour and a bittering agent. For use by professional operators to control mice indoors.		
pH	Not applicable.	Solubility in water	Insoluble.
Density	Not applicable.	Solubility in other solvents	Soluble.
Specific gravity	Not applicable.	Explosive properties	No known explosive properties.
Flash point	Not applicable.	Combustibility	Combustible.
Flammability	Non-flammable.	Oxidising properties	No known oxidising properties.
Boiling Point / Range	Not applicable.	Evaporation rate	Not applicable.
Vapour Density	Not applicable.	Partition coefficient	Not applicable.
Vapour pressure	Not applicable.	Decomposition temperature	Not determined.

Melting point / Freezing point	Not applicable.	Auto-ignition temperature	Not applicable.
9.2 Other Information			
Upper/lower flammability or explosive limits	Not applicable.	Other safety information	None known.
Viscosity	Not applicable.		

SECTION 10 Stability and Reactivity

10.1 Reactivity	This product is stable under normal conditions of handling and use.
10.2 Chemical stability	Avoid extremes of temperature, e.g. below 0°C and above 40°C.
10.3 Possibility of hazardous reactions	None expected under normal conditions of handling and use.
10.4 Conditions to avoid	None known.
10.5 Incompatible materials	None known.
10.6 Hazardous decomposition products	Combustion or thermal decomposition may evolve toxic or irritant vapours.

SECTION 11 Toxicological Information (see also box 2)

11.1 Information on toxicological effects		
Acute Toxicity	Oral	LD ₅₀ (rat) >2000 mg/kg
	Inhalation	This route of exposure is not anticipated.
	Dermal	LD ₅₀ >2000 mg/kg (rat).
Corrosivity/ Irritation	Skin	May be irritating to skin.
	Eyes	May be irritating to eyes.
	Respiratory tract	This route of exposure is not anticipated.
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.
	Developmental	Product does not contain any components known to be toxic to the reproductive system.
Other data	Difenacoum is an indirect anticoagulant. Phytomenadione, vitamin K1, is antidotal. Determine prothrombin time is not less than 18 hours after consumption. If elevated, administer vitamin K1 until prothrombin time normalises. Continue determination of prothrombin time for two weeks after withdrawal of the antidote and resume treatment if elevation occurs in that time.	

SECTION 12 Ecological Information

12.1 Toxicity	
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 difenacoum: LD ₅₀ (oral) (chickens): >50mg/kg, LC ₅₀ (96hr) (rainbow trout): 0.10mg/L, LC ₅₀ (48hr) (Daphnia): 0.52mg/L.

12.2 Persistence and degradability	Difenacoum is not readily biodegradable.
12.3 Bioaccumulative potential	This product is not expected to bioaccumulate.
12.4 Mobility	Not determined.
12.5 Results of PBT and vPvB Assessment	Does not meet requirements for assessment.
12.6 Other Adverse Effects	None known.

SECTION 13 Disposal Considerations

13.1 Waste treatment methods	All pesticide waste should be disposed of using EWC code EWC: 20 01 19. If plastic or metal container is empty and triple rinsed, it can be disposed of as non-hazardous controlled waste.	
Product/packaging disposal	This product must be disposed of as hazardous waste. The empty container may be disposed of as controlled waste in accordance with the appropriate regulations.	
Classification (Council Directive 91/689/EC, Commission Decision 2000/532/EC (amended) Commission Decision 2001/118/EC))	Hazard Code: Not classified.	
	Substances making the waste hazardous:	Concentrations (%):
	Not applicable.	
Note for Disposal	The best means of disposal of any product is through proper use according to the label. Disposal must be in accordance with Local, State or National Requirements.	

SECTION 14 Transport Information (International unless otherwise indicated)

ADR 2011 (International Road) / IMDG 2010 (Sea)			
14.1 UN No.	Not applicable.	RIS Code	300g PSD94
14.2 Proper Shipping Name	Not applicable.		
14.3 Class	Not applicable.		
ADR HIN	Not applicable.		
UK Hazchem EAC	Not applicable.		
IMDG EMS	Not applicable.		
14.4 Packing Group	Not applicable.	Labels Not applicable.	
Transport Category	Not applicable.		
14.5 Environmental hazards	Not applicable.		
Marine pollutant	Not applicable.		
Additional precautions	Not applicable.		
14.6 Special provisions	Not applicable.		
14.7 Transport in buk according to Annex II of MARPOL 73/78 and the IBC Code		Not applicable.	
Limited Quantity Exemptions	Not applicable.		
Note for Transport	Local, State or National requirements may apply to the carriage of this product.		

SECTION 15 Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Authorisations and/or restrictions on use	Information to be made available according to ECHA review programme.
Other EU regulations	This safety data sheet was prepared in accordance with EC Directive 1907/2006. Labelling is in accordance with EC Directive 1999/45. Additional labelling requirements may be necessary in accordance with other National legislation. The registration of this product may be necessary before use and any additional local requirements must be observed at all times. Other National measures or guidance should be followed where appropriate.
15.2 Chemical safety assessment	Information to be made available according to ECHA review programme.

SECTION 16 Other Information

Revisions	Not applicable.
Abbreviations and acronyms	<p>Typical standard abbreviations and acronyms used in Rentokil Initial Safety Data Sheets are as follows:</p> <p>ADR 2011 - International Carriage of Dangerous Goods by Road (ADR) ADR HIN - ADR Hazard Identification Number (HIN) Annex I DNEL or PNEC - Derived No Effect Level / Predicted No Effect Concentration CAS No - Chemicals Abstract Service Registry Number COSHH assessments - Control of Substances Hazardous to Health ECHA - European Chemicals Agency EC No - European Commission number EN469 - European standard for Personal Protective Equipment used for fire fighting EN standards for PPE - European Standards for Personal Protective Equipment EWC - European Waste Catalogue Code IMDG 2010 - International Maritime Dangerous Goods (IMDG) Code IUPAC - International Union of Pure and Applied Chemistry LD₅₀ - Median lethal dose LC₅₀ - Lethal concentration REACH - Registration, Evaluation, Authorisation and restriction of Chemicals RIS Code - Internal manufacturing code number WEL - Workplace Exposure Limit UK Hazchem EAC - UK Hazchem Emergency Action Code</p> <p>Typical Directives and Regulations referred to Rentokil Initial Safety Data Sheets are as follows:</p> <p>Commission Decision 95/320/EC - Scientific Committee for Occupational Exposure Limits to Chemical Agents Commission Decision 2000/532/EC - List of wastes Commission Decision 2001/118/EC - Amendment to 2000/532/EC with regards to List of wastes Directive 67/548/EEC - Dangerous Substances Directive Directive 76/768/EC (as amended) - The Cosmetics Directive Directive 89/686/EEC - The Personal Protective Equipment (PPE) Directive Directive 91/689/EC - Directive on Hazardous waste Directive 98/24/EC (1st IOELV Directive) - Chemical Agents Directive 98/24/EC Protection of the Health and Safety of Workers from the Risks from Chemical Agents IOELV Directive: Indicative Occupational Exposure Limit Values Directive 1907/2006 - REACH (Registration, Evaluation, Authorisation and restriction of Chemicals) Directive 1999/45/EC - Dangerous Preparations Directive Directive 2004/37/EC - Carcinogens and Mutagens Directive Regulation (EC) No. 648/2004 - Detergents Regulation Regulation (EC) No 1272/2008 - Classification, Labelling and Packaging</p>

Key literature references and sources for data	For details of the data and information sources used, please contact Rentokil Initial using the details in Section 1.
Classification and used classification procedure for mixtures labelled to Directive 1999/45/EC according to Regulation (EC) No 1272/2008	Not classified.
Risk phrase/Hazard statement text (From section 3 - These refer to the ingredients only. See section 2 for the product risk phrases)	R28: Very toxic if swallowed. R48/25: Toxic: 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. H300: Fatal if swallowed. H372: Causes damage to organs <or state all organs affected, if known> through prolonged or repeated exposure <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>. H400: Very toxic to aquatic life. H410: Very toxic to aquatic life with long lasting effects.
Training advice	Use biocides safely. Always read the label and product information before use. Ensure you have received adequate training and/or instructions before use.
Further Information	300g in a white, high-density, polyethylene tube.

DEADLINE DIFENACOU M PASTE BAIT

SDS No. 1168 - EN - GB

Issue : 1

08 : 11 : 2012

Page 7 of 7

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. Neither Rentokil Initial plc nor any of its subsidiaries accepts any liability 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.