

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 : 01 10 : 03 : 2011

1 IDENTIFICATION OF THE MIXTURE AND COMPANY		
Product identifier	MOUSE AND RAT WEATHERPROOF BAIT BLOCKS	HSE 9278 PCS 96319
Relevant identified uses of the mixture and uses advised against	A rodenticide bait block for amateur use against rats and mice both indoors and outdoors.	
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	As above.	
Emergency telephone number	0844 892 011 (for use by medical professionals only).	

2 HAZARDS IDENTIFICATION	
Classification according to Regulation (EC) No 1272/2008 (See section 16)	
See section 16 / Not applicable.	
Classification according to Directive 1999/45/EC (See section 16)	
Not classified.	
Label elements	
Hazard symbol not required.	Indication of danger not required.
Risk phrase(s) (R), in full.	Risk phrases are not required.
Safety phrase(s) (S), in full.	S45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
Contains 0.005% w/w Bromadiolone. To avoid risks to man and the environment, comply with the instructions for use.	
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.	

3 COMPOSITION/INFORMATION ON INGREDIENTS (See section 16)							
% w/w	Common*/ Chemical Name (IUPAC)	CAS No.	EC No.	Index No.	Regulation (EC) No 1907/2006 (REACH) Registration No.	Directive 67/548/EEC classification	Regulation (EC) No 1272/2008 classification
0.005	Bromadiolone/3-[3-(4'-bromobiphenyl-4-yl)-3-hydroxy-1-phenylpropyl]-4-hydroxyl coumarin	28772-56-7	249-205-9	-	-	T+: R27/28 T: R48/24/25 N: R50/53	Not available.

4 FIRST-AID MEASURES	
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.
Note To Doctor	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. Further information on all Rentokil Initial formulations is lodged with the National Poisons Information Service.
Antidote	Vitamin K1 is antidotal.

5 FIRE FIGHTING MEASURES	
Suitable extinguishing media	Use carbon dioxide, alcohol resistant foam or dry powder extinguishers. Keep fire exposed containers cool by spraying with water.
Unsuitable extinguishing media	Do NOT use a water jet.
Special hazards arising from the mixture	Combustion or thermal decomposition may evolve toxic vapours.
Advice for fire-fighters	Wear suitable personal protective equipment conforming to EN469 including self-contained breathing apparatus, suitable gloves and boots.

6 ACCIDENTAL RELEASE MEASURES	
Personal precautions, protective equipment and emergency procedures	Wear suitable personal protective equipment.
Environmental Precautions	Keep away from drains, surface and ground water, and soil.
Methods and material for containment and cleaning up	Collect up spilt material and transfer to a suitable container for re-use or subsequent disposal. Wash contaminated area with water, taking care to prevent washings entering sewers or drains.
Reference to other sections	Please also see sections 8 and 13 for further information.
Additional information	Clear spills immediately.

7 HANDLING AND STORAGE	
Precautions for safe handling	Avoid contact with eyes and skin. Wash hands after use. Do not smoke, eat or drink while handling this product. Always read the label before use.
Conditions for safe storage, including any incompatibilities	Keep away from oxidising agents. 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.
Specific end use(s)	Rodenticide.

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8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure standard - Directive 98/24/EC (1 st 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 (1 st IOELV Directive).	Not applicable.
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:	
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 requirement.	
Environmental Exposure Controls	Use only in accordance with instructions given.	

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance and odour/odour threshold	A blue waxy solid with a slight odour.		
pH	Not applicable.	Solubility in water	Insoluble.
Density	Not determined.	Solubility in other solvents	Soluble.
Specific gravity	Not determined.	Explosive properties	No known explosive properties.
Flash point	Not determined.	Combustibility	Combustible.
Flammability	Non flammable.	Oxidising properties	No known oxidising properties.
Boiling point/range	Not determined.	Evaporation rate	Not applicable.
Vapour density	Not applicable.	Partition coefficient: n-octanol/water	Not applicable.
Vapour pressure	Not applicable.	Decomposition temperature	Not determined.
Melting point/freezing point	Approximately 60°C for the wax.	Auto-ignition temperature	Not determined.
Upper/lower flammability or explosive limits	Not applicable.	Other safety information	None known.
Viscosity	Not applicable.		

10 STABILITY AND REACTIVITY

Reactivity	This product is stable under normal conditions of handling and use.
Chemical stability	This product is stable under normal conditions of handling and use.
Possibility of hazardous reactions	None expected under normal conditions of handling and use
Conditions to avoid	Avoid heat, spark and open flames.
Incompatible materials	Avoid oxidising agents.
Hazardous decomposition products	Combustion or thermal decomposition will produce toxic and irritant fumes.

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11 TOXICOLOGICAL INFORMATION (SEE ALSO BOX 2)		
Acute Toxicity	Oral	For product: LD ₅₀ (rat) 20g/kg (calculated)
	Inhalation	No data available.
	Dermal	For Bromadiolone: LD ₅₀ (rat) 23 mg/kg
Corrosivity/Irritation	Skin	May be irritating to skin.
	Eyes	May be irritating to eyes.
	Respiratory tract	Unlikely route of exposure.
Sensitisation	Skin	This product does not contain any substances that are classified as sensitising in contact with skin above the lower limits of concentration as specified in EC Directive 1999/45.
	Respiratory	Unlikely route of exposure.
Repeat-Dose Toxicity	No data available.	
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	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.	

12 ECOLOGICAL INFORMATION	
General Information	The Bromadiolone in this product is classified as very toxic 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: Daphnia EC ₅₀ (48 h) 5.79 mg/L Rainbow Trout LC ₅₀ (96 h) 2.89 mg/L Algae E ₅₀ (72 h) 1.14 mg/L
Persistence and Degradability	Bromadiolone is not considered volatile or biodegradable.
Bioaccumulative Potential	The Bromadiolone Log P _{ow} is greater than 3 which indicates a potential to bioaccumulate.
Mobility	Bromadiolone and any potential degradation products, even if released indirectly to soil in small quantities, are not likely to move through the soil profile and are unlikely to reach groundwater in significant quantities.
Results of PBT and vPvB assessment	Not determined.
Other Adverse Effects	Harmful to wildlife. Read all precautions before use.

13 DISPOSAL CONSIDERATIONS		
Waste treatment methods	This product should be disposed in accordance with information given on the product label.	
Product/packaging disposal	This product is for amateur use and can be disposed of as normal household waste. However, if used in a place of work, any product and empty container must be disposed of as controlled waste.	
Classification (Council Directive 91/689/EC, Commission Decision 2000/532/EC (amended) Commission Decision 2001/118/EC))	EWC: 20 01 19	
	Hazard Code: Not classified.	
	<u>Substances making the waste hazardous</u>	<u>Concentrations (%):</u>
	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.	

14 TRANSPORT INFORMATION (INTERNATIONAL UNLESS OTHERWISE INDICATED)					
UN No.	Not applicable.			RIS Code	
Transport Category	Not applicable.	UK Hazchem EAC	Not applicable.	FH15 6x240g FH21 6x480g FH25 6x960g	
ADR 2011 (International Road)	Class	Not applicable.	ADR HIN	Not applicable.	
Proper Shipping Name	Not applicable.			Labels Not applicable.	
Limited Quantity Exemptions	Not applicable.				
Special provisions	Not applicable.		Packing Group		Not applicable.
IMDG 2010 (Sea)	Class	Not applicable.	IMDG EMS		Not applicable.
Proper Shipping Name	Not applicable.				
Limited Quantity Exemptions	Not applicable.				
Special provisions	Not applicable.		Packing Group		Not applicable.
Note for Transport	Local, State or National requirements may apply to the carriage of this product.				

15 REGULATORY INFORMATION	
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.
Chemical safety assessment	Information to be made available according to ECHA review programme.

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> <table border="0"> <tr> <td>ADR 2011</td> <td>International Carriage of Dangerous Goods by Road (ADR)</td> </tr> <tr> <td>ADR HIN</td> <td>ADR Hazard Identification Number (HIN)</td> </tr> <tr> <td>Annex I DNEL or PNEC</td> <td>Derived No Effect Level / Predicted No Effect Concentration</td> </tr> <tr> <td>CAS No</td> <td>Chemicals Abstract Service Registry Number</td> </tr> <tr> <td>COSHH assessments.</td> <td>Control of substances hazardous to health</td> </tr> <tr> <td>ECHA</td> <td>European Chemicals Agency</td> </tr> <tr> <td>EC No</td> <td>European Commission number</td> </tr> <tr> <td>EN469</td> <td>European standard for Personal Protective Equipment used for fire fighting.</td> </tr> <tr> <td>EN standards for PPE</td> <td>European Standards for Personal Protective Equipment</td> </tr> <tr> <td>EWC</td> <td>European Waste Catalogue Code</td> </tr> <tr> <td>IMDG 2010</td> <td>International Maritime Dangerous Goods (IMDG) Code</td> </tr> <tr> <td>IUPAC</td> <td>International Union of Pure and Applied Chemistry</td> </tr> <tr> <td>LD₅₀</td> <td>Median lethal dose</td> </tr> <tr> <td>LC₅₀</td> <td>Lethal concentration 50</td> </tr> <tr> <td>REACH</td> <td>Registration, Evaluation, Authorisation and restriction of Chemicals</td> </tr> <tr> <td>RIS Code</td> <td>Internal manufacturing code number</td> </tr> <tr> <td>WEL</td> <td>Workplace Exposure Limit</td> </tr> <tr> <td>UK Hazchem EAC</td> <td>UK Hazchem Emergency Action Code</td> </tr> </table> <p>Typical Directives and Regulations referred to Rentokil Initial Safety Data Sheets are as follows:</p> <table border="0"> <tr> <td>Commission Decision 95/320/EC</td> <td>Scientific Committee for Occupational Exposure Limits to Chemical Agents</td> </tr> <tr> <td>Commission Decision 2000/532/EC</td> <td>List of wastes</td> </tr> <tr> <td>Commission Decision 2001/118/EC</td> <td>Amendment to 200/532/EC with regards to List of wastes</td> </tr> <tr> <td>Directive 67/548/EEC</td> <td>Dangerous Substances Directive</td> </tr> <tr> <td>Directive 89/686/EEC</td> <td>The Personal Protective Equipment (PPE) Directive</td> </tr> <tr> <td>Directive 91/689/EC</td> <td>Directive on Hazardous waste</td> </tr> <tr> <td>Directive 98/24/EC (1st IOELV Directive)</td> <td>Chemical Agents Directive 98/24/EC Protection of the Health and Safety of Workers from the Risks from Chemical Agents. 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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 currently classified to Regulation (EC) No. 1272/2008 until 31/05/2015.																																																														
Risk phrase text (From section 3 - These refer to the ingredients only. See section 2 for the product risk phrases)	<p>R27/28: Very toxic in contact with skin and if swallowed.</p> <p>R48/24/25: Toxic: danger of serious damage to health by prolonged exposure in contact with skin and if swallowed.</p> <p>R50/53: Very toxic to aquatic organisms may cause long-term adverse effects in the aquatic environment.</p>																																																														
Hazard statement text (From section 3 - These refer to the ingredients only. See section 2 for the product risk phrases)	Hazard statements are a requirement of Regulation (EC) No. 1272/2008 and will be listed when available.																																																														
Training advice	Use biocides safely. Always read the label and product information before use.																																																														
Further information	12, 24 or 48 x 20g wax blocks packed on plastic trays, shrink wrapped and placed into a cardboard outer box. 6 boxes packed in a carton make up one case.																																																														

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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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