

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/>

REVISION (see box 16)

Issue : 3

28 : 04 : 2014

SECTION 1 Identification of the substance/mixture and of the company/undertaking.

1.1 Product identifier	Rentokil Clothes Moth Killer Cassette	HSE 9387; PCS 96542
1.2 Relevant identified uses of the substance or mixture and uses advised against	Insecticide for amateur use against cloth damaging moths, larvae and eggs, indoors in domestic premises, in contained areas such as wardrobes, airing cupboards, suitcases, chests and drawers.	
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.

Classification according to Directive 1999/45/EC (See section 16)

N	Dangerous for the environment.	R50/53
---	--------------------------------	--------

2.2 Label elements

	Dangerous for the environment.	
Risk phrase(s) (R), in full / Hazard statement(s) (H), in full.	R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.	
Safety phrase(s) (S), in full / Precautionary Statement(s) (P), in full.	S2: Keep out of the reach of children. S13: Keep away from food, drink and animal feedingstuffs. S29: Do not empty into drains.	

S35: This material and its container must be disposed of in a safe way.
 S45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
 S61: Avoid release to the environment. Refer to special instructions/safety data sheets.

To avoid risks to man and the environment, comply with the instructions for use.

2.3 Other hazards

None 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
0.72	Transfluthrin* / 2,3,5,6-tetrafluorobenzyl trans-2-(2,2-dichlorovinyl)-3,3-dimethylcyclopropanecarboxylate	118712-89-3	405-060-5	607-223-00-8	-	Xi: R38 N: R50/53	Skin Irrit. 2 : H315 Aquatic Acute 1 : H400 Aquatic Chronic 1 : H410
≤1.0	2-tert-Butylcyclohexyl acetate	88-41-5 / 20298-69-5	201-828-7 / 243-718-1	-		N: R51/53	Not classified.
≤1.0	4-tert-Butylcyclohexyl acetate	32210-23-4	250-954-9	-		N: R51/53	Not classified.
≤1.0	Ethylene brassylate [1,4-Dioxyacycloheptadecane-5,17-dione]	105-95-3	203-347-8	-		N: R51/53	Not classified.
≤1.0	[4-(2,6,6-Trimethyl-1-cyclohexen-1-yl)-3-buten-2-one	79-77-6 / 8013-90-9	201-224-3 / 232-396-8	-		N: R51/53	Not classified.

SECTION 4 First-Aid Measures

4.1 Description of first aid measure

Inhalation	Remove patient to fresh air, keep warm and at rest. Apply supportive measures if necessary and seek medical attention.
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)	Rinse mouth with water and obtain medical advice.

4.2 Most important symptoms and effects both acute and delayed (See section 2.3)

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	No specific antidote known. Treatment is symptomatic.

SECTION 5 Fire Fighting Measures

5.1 Extinguishing media

Suitable extinguishing media	Use carbon dioxide, foam, water-fog, or dry powder extinguishers.
Unsuitable extinguishing media	Do not use water jet as this may spread the fire.
5.2 Special hazards arising from the substance or mixture	Combustion or thermal decomposition may evolve toxic or irritant vapours.
5.3 Advice for fire fighters	Wear self contained breathing apparatus and suitable personal protective equipment conforming to EN469.

SECTION 6 Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures	Wear suitable personal protective equipment.
6.2 Environmental precautions	This product is classified as dangerous for the environment. Keep away from drains, surface and ground water and soil.
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	None.

SECTION 7 Handling and Storage

7.1 Precautions for safe handling	Use only in accordance with instructions given.
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)	Insecticide.

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	Label advice indicates none necessary under normal handling and use. However, consider other precautionary requirements.
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.

SECTION 9 Physical and Chemical Properties**9.1 Information on basic physical and chemical properties**

Appearance, odour and physical state	A light or pale yellow solid with a characteristic (perfumed) odour.		
pH	Not determined.	Solubility in water	Insoluble.
Density	Not determined.	Solubility in other solvents	Not applicable.
Relative density	Not determined.	Explosive properties	None.
Flash point	Not determined.	Combustibility	Combustible.
Flammability	Not determined.	Oxidising properties	No known oxidising properties.
Initial boiling Point and boiling range	Not determined.	Evaporation rate	Not determined.
Vapour Density	Not determined.	Partition coefficient: n-octanol/water	Not determined.
Vapour pressure	Not determined.	Decomposition temperature	Not determined.
Melting point / Freezing point	Not determined.	Auto-ignition temperature	Not determined.

9.2 Other Information

Upper/lower flammability or explosive limits	Not determined.	Other safety information	Not applicable.
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	This product is stable under normal conditions of handling and use.
10.3 Possibility of hazardous reactions	None expected under normal conditions of handling and use.
10.4 Conditions to avoid	Avoid extremes of temperature, e.g. below 0°C and above 40°C.
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	For Transfluthrin: LD ₅₀ (rat): > 5000 mg/kg
	Inhalation	For Transfluthrin: LC50 (4h) (rat): > 513 mg/m ³
	Dermal	For Transfluthrin: LD ₅₀ (rat): > 5000 mg/kg
Corrosivity/ Irritation	Skin	Unlikely to cause irritation.
	Eyes	Unlikely to cause irritation.
	Respiratory tract	Not determined.
Sensitisation	Skin	Contains no known skin sensitisers.
	Respiratory	Contains no known respiratory sensitisers.

Repeated 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	None known.	

SECTION 12 Ecological Information

12.1 Toxicity

General information	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 Transfluthrin: LC ₅₀ (Rainbow trout) 0.0007mg/L @ 96hrs. EC ₅₀ (Daphnia) 0.0012mg/L @ 48hrs. IC ₅₀ (Desmodesmus subspicatus) >0.1ml/L @ 72hrs. No acute toxicity was observed at its limit of water solubility.
12.2 Persistence and degradability	Not determined.
12.3 Bioaccumulative potential	This product is not expected to bioaccumulate.
12.4 Mobility in soil	Not determined.
12.5 Results of PBT and vPvB assessment	Does not meet requirements for assessment.
12.6 Other Adverse Effects	None known.

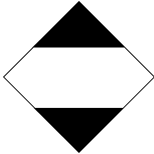
SECTION 13 Disposal Considerations

13.1 Waste treatment methods	This product should be disposed in accordance with the 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 must be disposed of as hazardous waste while 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: H14 - Ecotoxic.	
	Substances making the waste hazardous:	Concentrations (%):
	Transfluthrin* / 2,3,5,6-tetrafluorobenzyl trans-2-(2,2-dichlorovinyl)-3,3-dimethylcyclopropanecarboxylate	0.72
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 number	UN3077	RIS Code	2 x Cassette, 4 x Cassette FM95, FM41
14.2 UN Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (contains transfluthrin)		

14.3 Transport hazard class(es)	9		
ADR HIN	90		
UK Hazchem EAC	2Z		
IMDG EMS	F-A, S-F		
14.4 Packing Group	III	Labels 	
Transport Category	3		
14.5 Environmental hazards	Not applicable.		
Marine pollutant	Not applicable.		
Additional precautions	Not applicable.		
14.6 Special precautions for user	Not required.		
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable.		
Limited Quantity Exemptions	Maximum quantity per inner receptacle is 5 kg. Maximum per outer package is 30 kg. Combination packs only.		
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	Changes have been made to the content of boxes 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, compared with issue 2.
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 Regulation (EC) No 1907/2006 - REACH (Registration, Evaluation, Authorisation and restriction of Chemicals) Regulation (EC) No 453/2010-amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) 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 currently classified to Regulation (EC) No. 1272/2008 until 31/05/2015.
Risk phrase/Hazard statement text (From section 3 - These refer to the ingredients only. See section 2 for the product risk phrases)	R38: Irritating to skin. R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. 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	A small plastic cassette containing an insecticide impregnated pad.

RENTOKIL CLOTHES MOTH KILLER CASSETTE

SDS No. 1135 - EN - GB

Issue : 3

28 : 04 : 2014

Page 8 of 8

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.