

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.