

# Safety Data Sheet

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REVISION (see box 16)

Issue : 3

05 : 03 : 2013

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

<b>1.1 Product identifier</b>	Moth Killer Strips	HSE 7801
<b>1.2 Relevant identified uses of the substance or mixture and uses advised against</b>	A folded paper strip impregnated with an odourless insecticide. For amateur use against cloth damaging moths and cloth damaging beetles, indoors in domestic premises and in contained areas such as cupboards and boxes, where clothes, bedding, carpets and curtains are stored.	
<b>1.3 Details of the supplier of the safety data sheet</b>	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	
<b>1.4 Emergency telephone number</b>	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)

N	Dangerous for the environment.	R50/53
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### 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.  
S35: This material and its container must be disposed of in a safe way.

## MOTH KILLER STRIPS

## 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
0.47%	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

## 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. 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".
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### 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 known antidote.

## 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 substance or mixture	None, other than ordinary products of combustion.
5.3 Advice for fire fighters	Wear suitable personal protective equipment conforming to EN469.

## SECTION 6 Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures	None necessary for normal use of the product.
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 subsequent disposal.

<b>6.4 Reference to other sections</b>	Please also see sections 8 and 13 for further information.
Additional information	None.

## SECTION 7 Handling and Storage

<b>7.1 Precautions for safe handling</b>	Wash hands thoroughly with soap and water after handling. Avoid contact with skin and eyes.
<b>7.2 Conditions for safe storage, including any incompatibilities</b>	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.
<b>7.3 Specific end use(s)</b>	Insecticide.

## SECTION 8 Exposure Controls/Personal Protection

### 8.1 Control Parameters

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

### 8.2 Exposure Controls

Appropriate engineering controls	None necessary.
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.
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 folded paper strip impregnated with an odourless, colourless to pale yellow insecticide.		
pH	5-8 at 1%	Solubility in water	Insoluble.
Density	0.821 g/cm <sup>3</sup> at 20°C	Solubility in other solvents	Soluble.
Relative density	Not determined.	Explosive properties	No known explosive properties.
Flash point	>65°C	Combustibility	Non-combustible.
Flammability	Non-flammable.	Oxidising properties	None known.
Initial boiling Point and boiling range	100°C	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	Not determined.	Auto-ignition temperature	Not determined.
<b>9.2 Other Information</b>			
Upper/lower flammability or explosive limits	Not applicable.	Other safety information	None known.
Viscosity	Not applicable.		

## SECTION 10 Stability and Reactivity

<b>10.1 Reactivity</b>	This product is stable under normal conditions of handling and use.
<b>10.2 Chemical stability</b>	This product is stable under normal conditions of handling and use.
<b>10.3 Possibility of hazardous reactions</b>	None expected under normal conditions of handling and use.
<b>10.4 Conditions to avoid</b>	Avoid extremes of temperature, e.g. below 0°C and above 40°C.
<b>10.5 Incompatible materials</b>	None known.
<b>10.6 Hazardous decomposition products</b>	No hazardous decomposition products if stored and handled as prescribed/indicated.

## SECTION 11 Toxicological Information (see also box 2)

<b>11.1 Information on toxicological effects</b>		
Acute Toxicity	Oral	For Transfluthrin: LD <sub>50</sub> (rat): > 5000 mg/kg
	Inhalation	For Transfluthrin: LC <sub>50</sub> (4h) (rat): > 513 mg/m <sup>3</sup>
	Dermal	For Transfluthrin: LD <sub>50</sub> (24) (rat): > 5000 mg/kg
Corrosivity/ Irritation	Skin	May be irritating to skin.
	Eyes	May be irritating to eyes.
	Respiratory tract	Not expected to be irritating to the respiratory tract.
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

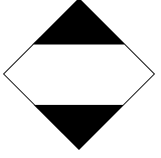
<b>12.1 Toxicity</b>	
General information	This product is classified as toxic to aquatic organisms and may cause long-term adverse effects in the aquatic environment. However, when used in accordance with instructions given, controlled release of this product is not expected to cause environmental contamination.
Ecotoxicity data	For Transfluthrin: LC <sub>50</sub> (Rainbow trout) 0.0007mg/L @ 96hrs. EC <sub>50</sub> (Daphnia) 0.0012mg/L @ 48hrs.

	IC <sub>50</sub> (Desmodesmus subspicatus) >0.1ml/L @ 72hrs. No acute toxicity was observed at its limit of water solubility.
<b>12.2 Persistence and degradability</b>	Not determined.
<b>12.3 Bioaccumulative potential</b>	Not determined.
<b>12.4 Mobility in soil</b>	Not determined.
<b>12.5 Results of PBT and vPvB assessment</b>	The product does not fulfill the criteria for PBT (persistent/bioaccumulative/toxic) or vPvB (very persistent very bioaccumulative).
<b>12.6 Other Adverse Effects</b>	Do not discharge to sewers, drains or watercourses.

## SECTION 13 Disposal Considerations

<b>13.1 Waste treatment methods</b>	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	0.47
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)

<b>ADR 2011 (International Road) / IMDG 2010 (Sea)</b>			
<b>14.1 UN number</b>	UN 3077	<b>RIS Code</b>	2 x strips per box FA112
<b>14.2 UN Proper Shipping Name</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (contains transfluthrin)		
<b>14.3 Transport hazard class(es)</b>	9		
ADR HIN	90		
UK Hazchem EAC	2X		
IMDG EMS	F-A, S-F		
<b>14.4 Packing Group</b>	III	<b>Labels</b> 	
Transport Category	3		
<b>14.5 Environmental hazards</b>	Yes		
Marine pollutant	Yes		
Additional precautions	Not applicable.		
<b>14.6 Special precautions for user</b>	Not required.		
<b>14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b>	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			

## SECTION 15 Regulatory Information

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

Authorisations and/or restrictions on use	None known.
Other EU regulations	This safety data sheet was prepared in accordance with EC Directive 1907/2006. Labelling is in accordance with EC Directive 1272/2008. 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.
<b>15.2 Chemical safety assessment</b>	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  LD<sub>50</sub> - Median lethal dose  LC<sub>50</sub> - 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>

<b>Key literature references and sources for data</b>	For details of the data and information sources used, please contact Rentokil Initial using the details in Section 1.
<b>Classification and used classification procedure for mixtures labelled to Directive 1999/45/EC according to Regulation (EC) No 1272/2008</b>	Not currently classified to Regulation (EC) No. 1272/2008 until 31/05/2015.
<b>Risk phrase/Hazard statement text</b> (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. H315: Causes skin irritation. H400: Very toxic to aquatic life. H410: Very toxic to aquatic life with long lasting effects.
<b>Training advice</b>	Use biocides safely. Always read the label and product information before use.
<b>Further Information</b>	2 moth killer strips supplied in a cardboard box.

## MOTH KILLER STRIPS

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**Before using any product, ensure that you read and understand its label.**

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