

Safety Data Sheet

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Issue : 01 11 : 04 : 2007

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY	
Product Name	RENTOKIL FLY REPELLENT – SMALL SPACE
Description	Vapourising mat impregnated with product, inside a plastic venting unit, with a characteristic odour.
Company	Rentokil Initial Supplies, Liverpool, L33 7SR. Product advice line: 0151 548 5050 Emergency line: 01342 833022 E-mail: techinfo@rentokil-initial.com

2 HAZARD IDENTIFICATION	
Classification (Supply – Use): In compliance with EC Directive 1999/45.	
N Dangerous for the environment	R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Adverse Physical, Chemical, Significant Human Health and Environmental Effects (See also box 11):	
Any transfer of the perfume from the hands to the eye may result in irritation.	
Ingestion may cause local irritation of the mouth and upper digestive tract.	
No other significant adverse effects expected under normal conditions of handling and use.	

3 COMPOSITION / INFORMATION ON INGREDIENTS (SEE ALSO BOX 16)		
% w/w	Common*/Chemical Name, ELINCS/EINECS & CAS No. of Ingredients	EC 1999/45 Classification
0.09	Permethrin* / 3-phenoxybenzyl (1RS, 3RS ; 1RS, 3RS)-3-(2,2-dichlorovinyl)-2,2-dimethyl cyclopropane carboxylate EINECS : 258-067-9 CAS : 52645-53-1	X _n : R20/22 : R43 N : R50,53
>0.1 ≤2.5	Citronellol EINECS : 203-375-0 CAS : 106-22-9	X _i : R38 X _i : R43 N : R51,53
>0.1 ≤2.5	Acetyl-1,5,10-trimethyl-1,5,9-cyclododecatriene EINECS : Not available CAS : Not available	X _i : R38 N : R51,53
>2.5 ≤10.0	4-tert.butylcyclohexyl acetate EINECS : 250-954-9 CAS : 33210-23-4	N : R51,53
>2.5 ≤10.0	Lavandin Oil EINECS : Not available CAS : Not available	X _n : R65
>0.1 ≤2.5	Limonene EINECS : 227-813-5 / EINECS : 227-815-6 CAS : 5989-27-5 / CAS : 5989-54-8	X _i : R38 X _i : R43 : R10 N : R50,53
>1.0 ≤2.5	Pentyl-2-hydroxybenzoate EINECS : 218-080-2 CAS : 2050-08-0	N : R51,53
>0.1 ≤2.5	1-(2,6,10-trimethylcyclododeca-2,5,9-trien-1-yl)ethanone EINECS : Not available CAS : Not available	X _i : R38 N : R51,53

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4 FIRST-AID MEASURES (SEE ALSO “ADVERSE EFFECTS” IN BOX 2)	
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)	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. 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”.
Note To Doctor	Further information on all Rentokil Initial formulations is lodged with the National Poisons Information Service in the UK.

5 FIRE FIGHTING MEASURES	
Fire Extinguisher Type	Use carbon dioxide, water mist and dry powder extinguishers. Do NOT use a water jet.
Special Fire-Fighting Procedures	Wear suitable personal protective equipment.
Special Exposure Hazards	None known.

6 ACCIDENTAL RELEASE MEASURES	
Personal Precautions (See also box 8)	Wear suitable personal protective equipment.
Environmental Precautions	Keep away from drains, surface and ground water, and soil.
Clean-up Procedure (See also box 13)	If the plastic venting unit or vapourising mat is damaged place in a suitable container for subsequent disposal.

7 HANDLING AND STORAGE (SEE ALSO BOX 8)	
Handling	Avoid contact with skin and eyes. Keep out of the reach of children.
Storage	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.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION	
Exposure Standard - Directive EC/98/24 (1st IOELV Directive)	Not assigned.
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 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 Protection	Label advice indicates none necessary under normal handling and use. However, consider other precautionary requirements.
Breathing 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.

9 PHYSICAL AND CHEMICAL PROPERTIES			
Appearance and Odour	Vapourising mat impregnated with product, inside a plastic venting unit, with a characteristic odour.		
pH	Not applicable.	Solubility in Water	Insoluble.
Density	Not applicable.	Solubility in Other Solvents	Not determined.
Flash Point	> 65°C	Explosive Properties	Not applicable.
Flammability	Not applicable.	Combustibility	Not applicable.
Boiling Point/Range	Not applicable.	Oxidising Properties	Not applicable.
Vapour Density	Not applicable.	Evaporation Rate	Not determined.
Vapour Pressure	Not applicable.	Partition Coefficient	Not applicable.
Viscosity	Not applicable.	Other Data	None known.

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10 STABILITY AND REACTIVITY

Conditions to avoid	Avoid extremes of temperature, e.g. below 0°C and above 40°C.
Materials to avoid	None.
Hazardous Breakdown Products	None known.

11 TOXICOLOGICAL INFORMATION (SEE ALSO BOX 2)


Acute Toxicity	Oral Inhalation Dermal	For permethrin: LD ₅₀ (rat) 620 mg/kg For permethrin: LC ₅₀ (rat) >4.638 mg/L air For permethrin: LD ₅₀ (rat) > 4000 mg/kg
Corrosivity/Irritation	Skin Eyes Respiratory tract	Frequent or prolonged contact may lead to irritation. Any transfer of the perfume material from the hands to the eye may result in slight irritation. Inhalation exposure of the perfume from a product of this type is intended, and no adverse effects are expected.
Sensitisation	Skin Respiratory	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. 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 Development	Product does not contain any components known to have effects on fertility. Product does not contain any components known to be toxic to the reproductive system.
Other Information		Ingestion may cause local irritation of the mouth and upper digestive tract.

12 ECOLOGICAL INFORMATION

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 permethrin: LC ₅₀ Rainbow trout (96hr) : 2.5 µg/L LC ₅₀ Rainbow trout (48hr) : 5.4 µg/L LC ₅₀ Bluegill sunfish (48hr) : 1.8 µg/L LC ₅₀ <i>Daphnia</i> (48hr) : 0.6 µg/L
Mobility	Not determined.
Persistence and Degradability	Not determined.
Bioaccumulative Potential	The perfume components will biodegrade in time.
Other Adverse Effects	None known.

13 DISPOSAL CONSIDERATIONS

Disposal of Waste / Containers	This product is for amateur use only and can therefore be disposed of as normal household waste. However, if used in a place of work, ensure this product is disposed of as hazardous 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 Components making the waste hazardous <table border="1"><thead><tr><th>Components making the waste hazardous</th><th>Concentrations (%):</th></tr></thead><tbody><tr><td>Permethrin</td><td>0.09</td></tr><tr><td>Hexyl 2-hydroxybenzoate</td><td>>0.01 ≤1.0</td></tr><tr><td>Citronellol</td><td>>0.1 ≤2.5</td></tr><tr><td>Acetyl-1,5,10-trimethyl-1,5,9-cyclododecatriene</td><td>>0.1 ≤2.5</td></tr><tr><td>2-isobutyl-5-methyl-1,3-dioxane</td><td>>0.1 ≤2.5</td></tr><tr><td>n-ethyl-n(3-methylphenyl)propionamide</td><td>>0.1 ≤2.5</td></tr><tr><td>4-tert.butylcyclohexyl acetate</td><td>>2.5 ≤10.0</td></tr><tr><td>Limonene</td><td>>0.1 ≤2.5</td></tr><tr><td>Pentyl-2-hydroxybenzoate</td><td>>1.0 ≤2.5</td></tr><tr><td>Alpha isomethyl ionone</td><td>≤0.001</td></tr><tr><td>1-(2,6,10-trimethylcyclododeca-2,5,9-trien-1-yl)ethanone</td><td>>0.1 ≤2.5</td></tr></tbody></table>	Components making the waste hazardous	Concentrations (%):	Permethrin	0.09	Hexyl 2-hydroxybenzoate	>0.01 ≤1.0	Citronellol	>0.1 ≤2.5	Acetyl-1,5,10-trimethyl-1,5,9-cyclododecatriene	>0.1 ≤2.5	2-isobutyl-5-methyl-1,3-dioxane	>0.1 ≤2.5	n-ethyl-n(3-methylphenyl)propionamide	>0.1 ≤2.5	4-tert.butylcyclohexyl acetate	>2.5 ≤10.0	Limonene	>0.1 ≤2.5	Pentyl-2-hydroxybenzoate	>1.0 ≤2.5	Alpha isomethyl ionone	≤0.001	1-(2,6,10-trimethylcyclododeca-2,5,9-trien-1-yl)ethanone	>0.1 ≤2.5
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Note for Disposal	For further advice about disposal, in the UK, contact the local office of the Environment Agency (England and Wales) or Scottish Environment Protection Agency. Local rate from anywhere in the UK: +44 (0) 870 850 6506.																								

14 TRANSPORT INFORMATION (INTERNATIONAL UNLESS OTHERWISE INDICATED)				
UN No.	UN3082	Tremcard Reference No.	90GM6-III	RIS Code
Transport Category	3	UK Hazchem EAC	2X	N/A
ADR 2007 (International Road)	Class 9 ADR HIN 90			Labels
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S (CONTAINS PERMETHRIN)			
Limited Quantity Exemptions	Maximum quantity per inner receptacle is 6kg. Maximum quantity per outer package is 30 kg. Combination packs only.			
Special Requirements	Not required. Packing Group III			
IMDG 2006 (Sea)	Class Not required. IMDG EMS Not required.			
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S (CONTAINS PERMETHRIN)			
Limited Quantity Exemptions	Maximum quantity per inner receptacle is 5kg. Maximum quantity per outer package is 30 kg. Combination packs only.			
Special Requirements	Not required. Packing Group III			
Note for Transport	Local, State or National requirements may apply to the carriage of this product.			

15 REGULATORY INFORMATION (HEALTH AND SAFETY INFORMATION (SEE ALSO BOX 2))	
Safety Phrases	<p>S29 : Do not empty into drains.</p> <p>S35 : This material and its container must be disposed of in a safe way.</p> <p>S61 : Avoid release to the environment. Refer to special instructions/safety data sheet.</p>
Additional Label Phrases	<p>Contains Eugenol, Coumarin, Geraniol and Limonene. May produce an allergic reaction.</p> <p>To avoid risks to man and the environment, comply with the instructions for use.</p>
Legislation	<p>Labelling is in accordance with UK regulations implementing the EC Directive 1999/45.</p> <p>Additional labelling requirements may be necessary in accordance with other National legislation. Outside the UK, the registration of this product may be necessary before use and any additional local requirements must be observed at all times.</p> <p>The information given on this Safety Data Sheet (SDS) does not constitute an assessment in accordance with Control of Substances Hazardous to Health (COSHH) Regulations 2002, in the UK. Other National measures or guidance should be followed where appropriate.</p>

16 Other Information and indication of revisions	
Packaging Information	The cellulose pad is within a small plastic cage with a hook. This is then flow wrapped in plastic and packed in a card sleeve.
Revisions	Not applicable.
Risk phrase text (From box 3 - These refer to the ingredients only. See box 2 for the product risk phrases)	<p>R10 : Flammable.</p> <p>R20/22 : Harmful by inhalation and if swallowed.</p> <p>R38 : Irritating to skin.</p> <p>R43 : May cause sensitisation by skin contact.</p> <p>R50, 53 : Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.</p> <p>R51, 53 : Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.</p> <p>R65 : Harmful: may cause lung damage if swallowed.</p>

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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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