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## Safety Data Sheet

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Issue: 1

12:06:2014

SECTION 1 Identification of the Substance/Mixture and Company		
1.1 Product identifier	Flying Insect Killer	HSE 9746, PCS 97671
1.2 Relevant identified uses of the mixture and uses advised against	A hand-held aerosol, insecticidal spray for amateur use against crawling and flying insects such as flies, wasps and mosquitos in and around the home.	
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: <a href="mailto:sds@rentokil.com">sds@rentokil.com</a>	
National contact	Rentokil Initial Supplies, Liverpool, L33 SR, UK. Product advice line: +44 (0)151 548 5050 Emergency line: +44 (0)1342 833 022 Email: <a href="mailto:sds@rentokil.com">sds@rentokil.com</a>	
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) No 1272/2008		
Not applicable. See section 16.		
Classification according to Directive 1999/45/EC (See section 16)		
F+	Extremely flammable	R12
N	Dangerous for the environment.	R51/53
2.2 Label elements		
		
Risk phrase(s) (R), in full / Hazard statement(s) (H), in full.	R12: Extremely flammable R51/53: 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 reach of children. S9: Keep container in a well-ventilated place. S16: Keep away from sources of ignition – No smoking. S23: Do not breathe vapour/spray. S29: Do not empty into drains. S35: This material and its container must be disposed of in a safe way. S46: If swallowed, seek medical advice and show this container or label. S51: Use only in well-ventilated areas.	
2.3 Other hazards		

### Flying Insect Killer

Product is extremely flammable, do not use near sources of ignition (e.g. naked flames). Direct contact with the aerosol spray may cause cold burns to the eyes and skin. Inhalation of the spray may cause irritation of the nose, throat and respiratory tract. Inhalation of high vapour concentrations may result in drowsiness, nausea, dizziness and ultimately loss of consciousness. Ingestion may cause irritation of the throat, nausea and vomiting. Ingestion of large quantities may lead to neurological symptoms such as ataxia and tremors, nausea, vomiting and loss of consciousness. Inhalation of the vapour whilst swallowing or vomiting may cause lung damage. Intentional misuse by deliberately concentrating or inhaling the contents can be harmful or fatal.

## 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
0.14	d-phenothrin	188023-86-1	-	-	-	N: R50/53	Aquatic Acute 1 : H400, Aquatic Chronic 1 : H410
0.14	d-tetramethrin	1166-46-7	214-619-0	-	-	N: R50/53	Aquatic Acute 1 : H400, Aquatic Chronic 1 : H410
30-60	Propane	74-98-6	200-827-9	-	-	F+: R12	Flam. Gas 1: H220
5-10	Distillates (petroleum), hydrotreated light*	64742-47-8	-	-	-	Xn; R65, R66	EUH066, Asp. Tox. 1: H304

## SECTION 4 Section First-Aid Measures

### 4.1 Description of first aid measures

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.

### 4.2 Most important symptoms and effects both acute and delayed

Emergency Equipment Suggested	Appropriate first-aid equipment should be provided.
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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 specific antidote known. Treatment is symptomatic.

## SECTION 5 Fire Fighting Measures

### 5.1 Extinguishing media

Suitable extinguishing media	Use carbon dioxide, foam or dry powder extinguishers.
Unsuitable extinguishing media	Do NOT use a water jet.
5.2 Special hazards arising from the mixture	Polycyclic aromatic hydrocarbons, unburnt hydrocarbons, unidentified organic and inorganic compounds and oxides of nitrogen and carbon may be produced in the event of a fire. Large amounts of propane released in a fire may act as an asphyxiant.
5.3 Advice for fire fighters	Wear suitable personal protective equipment.

## SECTION 6 Accidental Release Measures

<b>6.1 Personal precautions, protective equipment and emergency procedures</b>	Wear suitable personal protective equipment. Remove all sources of ignition. Ensure area is well ventilated.
<b>6.2 Environmental precautions</b>	This product is classified as dangerous for the environment. Keep away from drains, surface and ground water, and soil.
<b>6.3 Methods and material for containment and cleaning up</b>	If the aerosol container is damaged or pierced, allow the propellant to vent-off, if possible in a well-ventilated area, then place in a suitable container for subsequent disposal or recycling.
<b>6.4 Reference to other sections</b>	Please also see sections 8 and 13 for further information.
Additional information	Clear spills immediately.

## SECTION 7 Handling and Storage

<b>7.1 Precautions for safe handling</b>	Avoid puncturing.
<b>7.2 Conditions for safe storage, including any incompatibilities</b>	Keep away from sources of ignition – No smoking. Pressurised container: Protect from sunlight and do not expose to temperatures exceeding 50°C. 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

<b>8.1 Control Parameters</b>		
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.
<b>8.2 Exposure controls</b>		
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.	
Environmental Exposure Controls	Use only in accordance with instructions given.	

## SECTION 9 Physical and Chemical Properties

<b>9.1 Information on basic physical and chemical properties</b>	
<b>Appearance, odour and physical state</b>	A colourless aerosol insecticide spray with no characteristic odour.

### Flying Insect Killer

pH	Not determined.	Solubility in water	Slightly soluble.
Density	Not determined.	Solubility in other solvents	Not determined.
Relative density	Not determined.	Explosive properties	Pressurised container: do not puncture or expose to high temperatures.
Flash point	Not determined.	Combustibility	Combustible.
Flammability	Extremely flammable.	Oxidising properties	Not determined.
Boiling Point / Range	Not determined.	Evaporation rate	Not applicable.
Vapour Density	Not determined.	Partition coefficient	Not applicable.
Vapour pressure	Not determined.	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 determined.	Other safety information	None known.
Viscosity	Not determined.		

## 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>	Avoid extremes of temperature, e.g. below 0°C and above 40°C.
<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 exposure to direct sunlight or temperatures exceeding 50°C. Do not pierce or burn even after use.
<b>10.5 Incompatible materials</b>	Do not spray on naked flame, electrical equipment or any incandescent material.
<b>10.6 Hazardous decomposition products</b>	Polycyclic aromatic hydrocarbons, unburnt hydrocarbons, unidentified organic and inorganic compounds and oxides of nitrogen and carbon may be produced in the event of a fire. Large amounts of propane released in a fire may act as an asphyxiant.

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

<b>11.1 Information on toxicological effects</b>		
Acute Toxicity	Oral	For d-tetramethrin: LD50 (rat): >2000mg/kg. For d-phenothrin: LD50 (rat): >2000mg/kg.
	Inhalation	For d-tetramethrin: LC50 4Hrs (rat): >1.18mg/l. For d-phenothrin: LC50 4Hrs (rat): >2.1mg/l.
	Dermal	For d-tetramethrin: LD50 (rat): >2000mg/kg. For d-phenothrin: LD50 (rat): >2000mg/kg.
Corrosivity/ Irritation	Skin	Not irritating to skin.
	Eyes	Not irritating to eyes.
	Respiratory tract	Not irritating to respiratory tract.
Sensitisation	Skin	Not sensitising to skin.
	Respiratory	Contains no known respiratory sensitisers.
Repeat-Dose Toxicity	Product does not contain any components known to have any effects relating to repeated-dose toxicity.	

### Flying Insect Killer

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

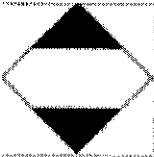
General information	This product is classified as toxic to aquatic organisms and may cause long-term adverse effects in the aquatic environment. However, when used in accordance with instructions given, controlled release of this product is not expected to cause environmental contamination.
Ecotoxicity data	For d-tetramethrin: Fish LC50 (96h) 0.010mg/l, Daphnia EC50 (48h) 0.11mg/l, For d-phenothrin: Fish LC50 (96h) 0.0027mg/l, Daphnia EC50 (48h) 0.0043mg/l, Algae IC50 (72h) 0.011mg/l.
12.2 Persistence and degradability	This product is not readily biodegradable.
12.3 Bioaccumulative potential	This product is not expected to bioaccumulate.
12.4 Mobility in soil	d-Phenothrin are readily absorbed into the soil.
12.5 Results of PBT and vPvB Assessment	d-Tetramethrin and d-Phenothrin are not classified as PBT/vPvB by current EU criteria.
12.6 Other Adverse Effects	None known.

## SECTION 13 Disposal Considerations

13.1 Waste treatment methods	This product should be disposed of in accordance with the information given on the label.	
Product/packaging disposal	This aerosol is for amateur use and can be disposed of as normal household waste. However, if used in a place of work, it must be disposed of as hazardous waste.	
Classification (Council Directive 91/689/EC, Commission Decision 2000/532/EC (amended) Commission Decision 2001/118/EC))	Hazard Code: H14 - Ecotoxic. H3A(i) - Flammable.	
	Substances making the waste hazardous:	Concentrations (%):
	d-Tetramethrin d-Phenothrin Propane	0.14 0.14 30-60
	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 No.	1950	RIS Code	FF98
14.2 Proper Shipping Name	AEROSOLS		
14.3 Class	2		
ADR HIN	Not applicable, aerosols are not allowed to be carried in tanks or in bulk.		
UK Hazchem EAC	Not applicable, aerosols are not allowed to be carried in tanks or in bulk.		
IMDG EMS	F-D, S-U		
14.4 Packing Group	Not applicable.		
Transport category	2		
14.5 Environmental hazards	Not applicable.		
Marine pollutant	Not applicable.		
Additional precautions	Not applicable.		
14.6 Special precautions for user	Not applicable.		
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code	Not applicable.		
Limited Quantity Exemptions	Individual aerosols should not exceed 1000ml and be carried in combination packages not exceeding 30kg. If carried in shrink-wrapped trays, the total gross mass of the package must not exceed 20kg.		
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	Not applicable.
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 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)	<p>R12: Extremely flammable.</p> <p>R65: Harmful: may cause lung damage if swallowed.</p> <p>R66: Repeated exposure may cause skin dryness or cracking.</p> <p>R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.</p> <p>EUH066: Repeated exposure may cause skin dryness or cracking.</p> <p>H220: Extremely flammable gas.</p> <p>H304: May be fatal if swallowed and enters airways.</p> <p>H400: Very toxic to aquatic life.</p> <p>H410: Very toxic to aquatic life with long lasting effects.</p>
<b>Training advice</b>	Use biocides safely. Always read the label and product information before use.
<b>Further information</b>	A 300ml aerosol can.

## FLYING INSECT KILLER

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

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