

Safety Data Sheet

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Issue: 1

16:05:2014

SECTION 1 Identification of the Substance/Mixture and Company 1.1 Product identifier Insectrol Moth Killer HSE 8546, PCS 95222 1.2 Relevant identified uses of An insecticidal space and surface spray for use by amateurs for the control of Flies, Wasps and the mixture and uses advised Moths. against 1.3 Details of the supplier of Rentokil Initial Supplies, Liverpool, L33 7SR, UK. the safety data sheet Product advice line: +44 (0)151 548 5050 Emergency line: +44 (0)1342 833 022 E-mail: sds@rentokil.com Rentokil Initial Supplies, Liverpool, L33 SR, UK. Product National contact advice line: +44 (0)151 548 5050 Emergency line: +44 (0)1342 833 022 Email: sds@rentokil.com 1.4 Emergency telephone 0844 892 011 (for use by medical professionals only). number

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
-	Dangerous for the environment	R52/53

2.2 Label elements

R12: Extremely flammable.
R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
S2: Keep out of reach of children.
S16: Keep away from sources of ignition – no smoking.
S23: Do not breathe spray.
S24: Avoid contact with skin.
S35: This material and its container must be disposed of in a safe way.
S46: If swallowed, seek medical advice immediately and show this container or label.

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
0.28	Tetramethrin	7696-12- 0	231-711- 6	-	-	N: R50/53	Aquatic Acute 1: H400 Aquatic Chronic 1: H41
0.14	d-phenothrin	188023- 86-1	247-404- 5	-	-	N: R50/53	Aquatic Acute 1: H400 Aquatic Chronic 1: H41
> 10.00 < 25.00	Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, 2% aromatics	-	926-141- 6	-	01-2119456620-43-xxxx	Xn: R65. R66	Asp. Tox. 1: H304
> 25.00 ≤ 50.00	Aerosol propellant / Liquefied petroleum gas	68476- 85-7	270-704- 2	649-202- 00-6	-	F+: R12	Flam. Gas 1: H220
≤ 1.0%	Butane	106-97-8	203-448- 7	-	-	F+: R12	Flam. Gas 1: H220
≤ 0.1%	1,3-butadiene	106-99-0	203-450- 8	016-001- 00-4	-	F+; R12 Carc. Cat. 1; R45 Muta. Cat. 2; R46	Flam. Gas 1: H220, Muta. 1B: H340, Carc. 1A: H350
≤ 1.0%	Hydrogen sulphide	7783-06- 4	231-977- 3	-	-	F+; R12 T+; R26 N; R50	Flam. Gas 1: H220, Acute Tox. 2: H330, Aquatic Acute 1: H400
≤ 1.0%	Sodium benzoate	532-32-1	208-534- 8	-	-	Xi: R36	Eye Irrit. 2: H319
≤ 1.0%	Sodium nitrite	7632-00- 0	231-555- 9	007-010- 00-4	-	O: R8. T: R25. N: R50.	Ox. Liq. 2: H272, Acute Tox. 3: H301, Eye Irrit. 2: H319, Aquatic Acute 1: H400

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 symptom	ms and effects both acute and delayed	
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

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

6.1 Personal precautions, protective equipment and emergency procedures	Wear suitable personal protective equipment. Remove all sources of ignition. Ensure area is well ventilated.
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	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.
6.4 Reference to other sections	Please also see sections 8 and 13 for further information.
Additional information	Clear spills immediately.

SECTION 7 Handling and Storage

7.1 Precautions for safe handling	Avoid puncturing.
	Keep away from sources of ignition – No smoking. Pressurised container: Protect from sunlight an 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.
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)	Aerosol propellant: 1750 mg/m ³ . Butane: 1450 mg/m ³ . 1,3-butadiene: 22 mg/m ³ . Hydrogen sulphide: 7 mg/m ³ .	
	Workplace Exposure Limit (WEL) short-term exposure (15 minute reference period)	For: Aerosol propellant is 2180 mg/m ³ . For Butane is 1810 mg/m ³ . Hydrogen sulphide: 14 mg/m3.	
	Substance name used in Directive EC/98/24 (1st IOELV Directive)	Aerosol propellant is referred to as liquefied petroleum gas in Directive EC/98/24 (1st IOELV Directive).	
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.	
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	An aerosol insecticide spray with a fragrant odour.			
рН	Not applicable.	Solubility in water	Not determined.	
Density	Not determined.	Solubility in other solvents	Not determined.	
Specific gravity	Not determined.	Explosive properties	Pressurised container: do not puncture or expose to high temperatures.	
Flash point	Lower than -20°C	Combustibility	Combustible.	
Flammability	Extremely flammable.	Oxidising properties	Not determined.	
Boiling Point / Range	Not determined.	Evaporation rate	Not determined.	
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.	
9.2 Other information				
Upper/lower flammability or explosive limits	Not determined.	Other safety information	None known.	
Viscosity	Not determined.			

SECTION 10 Stability and Reactivity		
10.1 Reactivity	None expected under normal conditions of handling and use.	
10.2 Chemical stability	Avoid extremes of temperature, e.g. below 0°C and above 40°C.	
10.3 Possibility of hazardous reactions	None expected under normal conditions of handling and use.	
10.4 Conditions to avoid	Avoid exposure to direct sunlight or temperatures exceeding 50°C. Do not pierce or burn even after use.	
10.5 Incompatible materials	Do not spray on naked flame, electrical equipment or any incandescent material.	
10.6 Hazardous decomposition products	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) 11.1 Information on toxicological effects Acute Toxicity Oral For tetramethrin: LD50 (rat): >2000mg/kg. For d-phenothrin: LD50 (rat)

Acute Toxicity	Oral	For tetramethrin: LD50 (rat): >2000mg/kg. For d-phenothrin: LD50 (rat): >2000mg/kg.	
	Inhalation	For tetramethrin: LC50 4Hrs (rat): 1.18mg/l. For d-phenothrin: LC50 4Hrs (rat): >2.1mg/l.	
	Dermal	For tetramethrin: LD50 (rat): >2000mg/kg. For d-phenothrin: LD50 (rat): >2000mg/kg.	
Corrosivity/ Irritation	Skin	Not irritating to skin	
	Eyes	May be irritating to eyes.	
	Respiratory tract	Not irritating to respiratory tract.	
Sensitisation	Skin	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.	
	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.		
Mutagenicity	Product does not contain any components known to have a mutagenic effect above the lower limits of concentration as specified in EC Directive 1999/45.		
Carcinogenicity	Product does not contain any components known to have a carcinogenic effect above the lower limits of concentration as specified in EC Directive 1999/45.		
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	Contact with the liquid product may cause cold burns, frost bite or corneal damage. Inhalation of high vapour concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting. May ultimately causes loss of consciousness.		

SECTION 12 Ecological Information

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12.1 Toxicity		
General information	This product is classified as harmful to aquatic organisms. May cause long-term adverse effects in the aquatic environment.	
Ecotoxicity data	For tetramethrin: Fish LC50 (96h) 0.0037mg/l, Daphnia EC50 (48h) 0.110mg/l, Algae IC50 (72h) 0.94mg/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 biodegradeable. Photodegradable.	
12.3 Bioaccumulative potential	This product is not bioaccumulating. Tetramethrin: Log Pow: 4.58. d-Phenothrin: Log Pow: 6.8.	
12.4 Mobility in soil	Tetramethrin and d-Phenothrin are readily absorbed into the soil.	
12.5 Results of PBT and vPvB Assessment	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 in accordance with the information given on the product 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)	Hazard Code: H14 - Ecotoxic. H3A(i) - Flammable.		
Commission Decision 2001/118/EC))	Substances making the waste hazardous:	Concentrations (%):	
	Tetramethrin	0.28	
	Aerosol propellant / liquefied petroleum gas	> 25.00 < 50.00	
	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 15 Transport Information (International unless otherwise indicated) ADR 2011 (International Road) / IMDG 2010 (Sea) 14.1 UN No. 1950 **RIS Code** 250ml PS137 14.2 UN Proper Shipping Name AEROSOLS 14.3 Transport hazard class(es) 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 Labels 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 Not applicable. user 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 shrinkwrapped trays, the total gross mass of the package must not exceed 20kg. Local, State or National requirements may apply to the carriage of Note for transport this product.

SECTION 15 Regulatory Information

15.1 Safety, Heath 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 Revisions	Not applicable.
	Typical standard abbreviations and acronyms used in Rentokil Initial Safety Data Sheets are as follows
Abbreviations and acronyms	
	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
	on hazenem EAO - on hazenem Emergency Action oode
	Typical Directives and Regulations referred to Rentokil Initial Safety Data Sheets are as follows:
	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

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	R8: Contact with combustible material may cause fire.	
text (From section 3 - These refer to the ingredients only. See	R12: Extremely flammable.	
section 2 for the product risk	R25: Toxic if swallowed.	
phrases)	R26: Very toxic by inhalation.	
	R36: Irritating to eyes.	
	R45: May cause cancer.	
	R46: May cause heritable genetic damage.	
	R50: Very toxic to aquatic organisms.	
	R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.	
	R65: Harmful: may cause lung damage if swallowed.	
	R66: Repeated exposure may cause skin dryness or cracking.	
	H220: Extremely flammable gas.	
	H272: May intensify fire; oxidiser.	
	H301: Toxic if swallowed.	
	H304: May be fatal if swallowed and enters airways.	
	H319: Causes serious eye irritation.	
	H330: Fatal if inhaled.	
	H340: May cause genetic defects	
	H350: May cause cancer.	
	H400: Very toxic to aquatic life.	
	H410: Very toxic to aquatic life with long lasting effects.	
Training advice	Use biocides safely. Always read the label and product information before use.	
Further Information	A 250ml aerosol can.	

INSECTROL MOTH KILLER

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

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