

# Safety Data Sheet

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Issue : 01 04 : 03 : 2008

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY		
Product Name	<b>INSECTROL MOTH SPRAY</b>	<b>HSE 8546</b>
Description	Insecticide for amateur use. For the control of flies, mosquitoes, moths, gnats, wasps, cockroaches, ants and crickets in domestic situations.	
Company	Rentokil Initial Supplies, Liverpool, L33 7SR. Product advice line: 0151 548 5050 Emergency line: 01342 833022 E-mail: <a href="mailto:eurotech.techinfo@rentokil-initial.com">eurotech.techinfo@rentokil-initial.com</a>	

2 HAZARD IDENTIFICATION			
Classification (Supply – Use) : In compliance with EC Directive 1999/45.			
<b>F+</b>	<b>Extremely Flammable</b>	R12	Extremely flammable.
<b>N</b>	<b>Dangerous for the environment</b>	R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
<b>Adverse Physical, Chemical, Significant Human Health and Environmental Effects (See also box 11):</b>			
Product is extremely flammable, do not use near sources of ignition (e.g. naked flames).			
May cause cold burns to the eyes and skin on direct contact with the aerosol spray. 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.			

3 COMPOSITION / INFORMATION ON INGREDIENTS (SEE ALSO BOX 16)			
% w/w	Common*/Chemical Name, ELINCS/EINECS & CAS No. of Ingredients	EC 1999/45 Classification	
0.28	Tetramethrin* / cyclohex-1-ene-1,2-dicarboximidomethyl (1RS)-cis-trans-2,2-dimethyl-3-(2-methylprop-1-enyl)cyclopropanecarboxylate EINECS : 231-711-6 CAS : 7696-12-0	N : R50,53	
0.14	d-Phenothrin* / 3-phenoxybenzyl(1RS,3RS,1RS,3SR)-2,2-dimethyl-3-(2-methylprop-1-enyl)cyclopropanecarboxylate EINECS : 247-404-5 CAS : 188023-86-1	N : R50,53	
≤0.1	Fragrance EINECS : Not applicable. CAS : Not applicable.	X <sub>i</sub> : R43 N : R51,53	
>25.0 ≤50.0	Aerosol propellant* / Liquefied petroleum gas EINECS : 270-704-2 CAS : 68476-85-7	F+ : R12	
>5.0 ≤15.0	Odourless kerosene* / Distillates (petroleum), hydrotreated light; kerosene unspecified. EINECS : 265-149-8 CAS : 64742-47-8	X <sub>n</sub> : R65	
>1.0 ≤10.0	Sodium benzoate EINECS : 208-534-8 CAS : 532-32-1	Not classified. Substance with a Community Workplace Exposure Limit (refer to box 8).	

## INSECTROL MOTH SPRAY

<b>4 FIRST-AID MEASURES (SEE ALSO “ADVERSE EFFECTS” IN BOX 2)</b>	
<b>Inhalation</b>	Remove patient to fresh air, keep warm and at rest. Apply supportive measures if necessary and seek medical attention.
<b>Eye Contact</b>	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.
<b>Skin Contact</b>	Remove and wash contaminated clothing immediately. Wash affected area thoroughly with soap and water. If the patient feels unwell seek medical advice.
<b>Ingestion (Swallowing)</b>	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.
<b>Emergency Equipment Suggested</b>	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”.
<b>Note To Doctor</b>	Further information on all Rentokil Initial formulations is lodged with the National Poisons Information Service in the UK.

<b>5 FIRE FIGHTING MEASURES</b>	
<b>Fire Extinguisher Type</b>	Use carbon dioxide, foam, or dry powder extinguishers.
<b>Special Fire-Fighting Procedures</b>	Wear suitable personal protective equipment.
<b>Special Exposure Hazards</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.

<b>6 ACCIDENTAL RELEASE MEASURES</b>	
<b>Personal Precautions (See also box 8)</b>	Wear suitable personal protective equipment. Remove all sources of ignition. Ensure area is well ventilated.
<b>Environmental Precautions</b>	This product is classified as dangerous for the environment. Keep away from drains, surface and ground water, and soil.
<b>Clean-up Procedure (See also box 13)</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>7 HANDLING AND STORAGE (SEE ALSO BOX 8)</b>	
<b>Handling</b>	Avoid puncturing.
<b>Storage</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. Pressurised container: Protect from sunlight and do not expose to temperatures exceeding 50°C. Keep away from sources of ignition - No smoking.

<b>8 EXPOSURE CONTROLS/PERSONAL PROTECTION</b>	
<b>Exposure Standard - Directive EC/98/24 (1<sup>st</sup> IOELV Directive)</b>	Workplace Exposure Limit (WEL) aerosol propellant is 1750 mg/m <sup>3</sup> long-term exposure (8 hour Time Weighted Average (TWA)) and 2180 mg/m <sup>3</sup> short-term exposure (15 minute reference period). Aerosol propellant is referred to as liquefied petroleum gas in Directive EC/98/24 (1 <sup>st</sup> IOELV Directive). WEL for sodium benzoate total inhalable dust is 10 mg/m <sup>3</sup> long-term exposure (8 hour TWA). Respirable dust is 4 mg/m <sup>3</sup> long-term exposure (8 hour TWA)
<b>Engineering Controls</b>	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:
<b>Eye Protection</b>	Label advice indicates none necessary under normal handling and use. However, consider other precautionary requirements.
<b>Hand Protection</b>	Label advice indicates none necessary under normal handling and use. However, consider other precautionary requirements.
<b>Skin Protection</b>	Label advice indicates none necessary under normal handling and use. However, consider other precautionary requirements.
<b>Breathing Protection</b>	Label advice indicates none necessary under normal handling and use. However, consider other precautionary requirements.
<b>Environmental Exposure Controls</b>	Use only in accordance with instructions given.

<b>9 PHYSICAL AND CHEMICAL PROPERTIES</b>			
<b>Appearance and Odour</b>	An aerosol insecticide spray with a fragrant odour.		
<b>pH</b>	Not applicable.	<b>Solubility in Water</b>	Immiscible.
<b>Density</b>	Not determined.	<b>Solubility in Other Solvents</b>	Miscible.
<b>Flash Point</b>	<-40°C (aerosol propellant)	<b>Explosive Properties</b>	Pressurised container: do not puncture or expose to high temperatures.
<b>Flammability</b>	Extremely flammable.	<b>Combustibility</b>	Combustible.
<b>Boiling Point</b>	-2.0 - -45°C (aerosol propellant)	<b>Oxidising Properties</b>	None.
<b>Vapour Density</b>	Not determined.	<b>Evaporation Rate</b>	Not determined.
<b>Vapour Pressure</b>	Not determined.	<b>Partition Coefficient</b>	Not applicable.
<b>Viscosity</b>	Not determined.	<b>Other Data</b>	None known.

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## 10 STABILITY AND REACTIVITY

<b>Conditions to avoid</b>	Avoid exposure to direct sunlight or temperatures exceeding 50°C. Do not pierce or burn even after use.
<b>Materials to avoid</b>	Do not spray on naked flame, electrical equipment or any incandescent material.
<b>Hazardous Breakdown 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.

## 11 TOXICOLOGICAL INFORMATION (SEE ALSO BOX 2)

<b>Acute Toxicity</b>	<b>Oral</b>	For tetramethrin: LD <sub>50</sub> (rat) : 4640 mg/kg For d-phenothrin: LD <sub>50</sub> (rat) : >5000 mg/kg
	<b>Inhalation</b>	For tetramethrin: LC <sub>50</sub> (rat) : > 2.73 mg/L For d-phenothrin: LC <sub>50</sub> (rat) : >2.1 mg/L
	<b>Dermal</b>	For tetramethrin: LD <sub>50</sub> (rat) : > 2000 mg/kg For d-phenothrin: LD <sub>50</sub> (rat) : >5000 mg/kg
<b>Corrosivity/Irritation</b>	<b>Skin</b>	Direct contact of liquid or cold vapour with the skin may result in cold burns.
	<b>Eyes</b>	Direct contact of liquid or cold vapour with the skin may result in corneal damage.
	<b>Respiratory tract</b>	May cause irritation to respiratory tract.
<b>Sensitisation</b>	<b>Skin</b>	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.
	<b>Respiratory</b>	Contains no known respiratory sensitisers.
<b>Repeat-Dose Toxicity</b>		Product does not contain any components known to have any effects relating to repeated-dose toxicity.
<b>Mutagenicity</b>		Product does not contain any components known to have a mutagenic effect.
<b>Carcinogenicity</b>		Product does not contain any components known to have a carcinogenic effect.
<b>Reproductive Toxicity</b>	<b>Fertility</b>	Product does not contain any components known to have effects on fertility.
	<b>Development</b>	Product does not contain any components known to be toxic to the reproductive system.
<b>Other Information</b>		None known.


## 12 ECOLOGICAL INFORMATION

<b>General Information</b>	This product is classified as very toxic to aquatic organisms, 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.
<b>Ecotoxicity Data</b>	For tetramethrin: For d-phenothrin: Fish: 96h-LC <sub>50</sub> (Bluegills): 16 µg/L Fish: LC <sub>50</sub> (96hr) 2.7µg/L (Trout) Daphnia: 48h-EC <sub>50</sub> ( <i>Daphnia magna</i> ): 110 µg/L Daphnia: EC <sub>50</sub> (48hr) 4.3µg/L ( <i>Daphnia magna</i> )
<b>Mobility</b>	Tetramethrin and d-phenothrin are readily absorbed into soil.
<b>Persistence and Degradability</b>	Tetramethrin and d-phenothrin are photodegradable and not readily biodegradable.
<b>Bioaccumulative Potential</b>	Tetramethrin and d-phenothrin have the potential to bioaccumulate.
<b>Other Adverse Effects</b>	None known.

## 13 DISPOSAL CONSIDERATIONS

<b>Disposal of Waste / Containers</b>	This product is dangerous for the environment. Do not discharge waste washings or waste product to sewers, drains or watercourses.										
<b>Classification</b> (Council Directive 91/689/EC, Commission Decision 2000/532/EC (amended) Commission Decision 2001/118/EC))	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. <u>Hazard Code</u> : H3A(i) – Highly flammable; H14 - Ecotoxic										
<b>Note for Disposal</b>	<table border="0"><tr><td><u>Components making the waste hazardous</u></td><td><u>Concentrations (%)</u>:</td></tr><tr><td>Tetramethrin</td><td>0.270</td></tr><tr><td>d-Phenothrin</td><td>0.1425</td></tr><tr><td>Fragrance</td><td>≤0.1</td></tr><tr><td>Aerosol propellant</td><td>&gt;25 ≤50</td></tr></table> <p>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.</p>	<u>Components making the waste hazardous</u>	<u>Concentrations (%)</u> :	Tetramethrin	0.270	d-Phenothrin	0.1425	Fragrance	≤0.1	Aerosol propellant	>25 ≤50
<u>Components making the waste hazardous</u>	<u>Concentrations (%)</u> :										
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d-Phenothrin	0.1425										
Fragrance	≤0.1										
Aerosol propellant	>25 ≤50										

### INSECTROL MOTH SPRAY

<b>14 TRANSPORT INFORMATION (INTERNATIONAL UNLESS OTHERWISE INDICATED)</b>				
<b>UN No.</b>	UN1950	<b>Tremcard Reference No.</b>	CEFIC(R) 20G5F	<b>RIS Code</b>
<b>Transport Category</b>	2	<b>UK Hazchem EAC</b>	Not applicable, aerosols are not allowed to be carried in tanks or in bulk.	PSI37
<b>ADR 2007 (International Road)</b>	<b>Class 2</b>	<b>ADR HIN</b>	Not applicable, aerosols are not allowed to be carried in tanks or in bulk.	<b>Labels</b>
<b>Proper Shipping Name</b>	AEROSOLS			
<b>Limited Quantity Exemptions</b>	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.			
<b>Special Requirements</b>	Not required. <b>Packing Group</b> Not required.			
<b>IMDG 2006 (Sea)</b>	<b>Class 2</b>	<b>IMDG EMS</b>	F-D, S-U	
<b>Proper Shipping Name</b>	AEROSOLS			
<b>Limited Quantity Exemptions</b>	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.			
<b>Special Requirements</b>	Not required. <b>Packing Group</b> Not required.			
<b>Note for Transport</b>	Local, State or National requirements may apply to the carriage of this product.			

<b>15 REGULATORY INFORMATION (HEALTH AND SAFETY INFORMATION (SEE ALSO BOX 2))</b>	
<b>Safety Phrases</b>	S2 : Keep out of the reach of children. S16 : Keep away from sources of ignition – No smoking. S23 : Do not breathe spray. S35 : This material and its container must be disposed of in a safe way.
<b>Additional Label Phrases</b>	To avoid risks to man and the environment, comply with the instructions for use.
<b>Legislation</b>	Labelling is in accordance with UK regulations implementing the EC Directive 1999/45. 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. The information given on this Safety Data Sheet (SDS) <b>does not</b> 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.

<b>16 Other Information and indication of revisions</b>	
<b>Packaging Information</b>	A 250 mL aerosol can.
<b>Revisions</b>	Not applicable.
<b>Risk phrase text</b> (From box 3 - These refer to the ingredients only. See box 2 for the product risk phrases)	R12 : Extremely flammable. R43 : May cause sensitisation by skin contact. R50,53 : Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R51,53 : Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R65 : Harmful: May cause lung damage if swallowed.

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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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