

# Safety Data Sheet

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REVISION (see box 16)

Issue : 2

01 : 03 : 2013

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

<b>1.1 Product identifier</b>	Insectrol Insect Killer	HSE 8459, PCS 95177
<b>1.2 Relevant identified uses of the substance or mixture and uses advised against</b>	Hand-held insecticidal aerosol spray with a kerosene type odour. For amateur use against fleas, ants bedbugs and other insects in the home.	
<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)

F+	Extremely flammable.	R12
Xn	Harmful	R65
N	Dangerous for the environment.	R50/53

### 2.2 Label elements



Extremely flammable.  
Harmful  
Dangerous for the environment.



Risk phrase(s) (R), in full / Hazard statement(s) (H), in full.

R12: Extremely flammable.  
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.

Safety phrase(s) (S), in full / Precautionary Statement(s) (P), in full.

S13: Keep away from food, drink and animal feedingstuffs.  
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.  
S46: If swallowed, seek medical advice immediately and show this container or label.  
S51: Use only in well-ventilated areas.

Contains 0.46 % w/w permethrin and 0.13 % w/w d-allethrin.

Contains permethrin. May produce an allergic reaction.

WARNING: Keep out of the reach of children. Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn even after use. Keep away from sources of ignition - No smoking. Do not spray on a naked flame, electrical equipment or any incandescent material.

To avoid risks to man and the environment, comply with the instructions for use.

Safety data sheet available to professional user on request.

### 2.3 Other hazards

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
0.46	Permethrin*/ m-phenoxybenzyl 3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate (cis:trans ratio 25:75)	52645-53-1	258-067-9	613-058-00-2	-	Xn: R20/22 R43 N: R50/53	Acute Tox. 4 : H302 H332 Skin Sens. 1 : H317 Aquatic Acute 1 : H400 Aquatic Chronic 1 : H410
0.13	d-Allethrin*/ (RS)-3-allyl-2-methyl-4-oxocyclopent-2-enyl (1R)-cis-trans-chrysanthemate 2-methyl-4-oxo-3-(2-propenyl)-2-cyclopenten-1-yl 2,2-dimethyl-3-(2-methyl-1-propenyl)cyclopropanecarboxylate	231937-89-6	209-542-4	006-025-00-3	05-2116453766-34-0000	Xn: R20/22 N: R50/53	Acute Tox. 4 : H302 H332 Aquatic Acute 1 : H400 Aquatic Chronic 1 : H410

>50.0	Distillates (petroleum), hydrotreated light*	64742-47-8	265-149-8	649-422-00-2	-	Xn: R65	Asp. Tox. 1 : H304
>25.0 ≤50.0	Aerosol propellant*/liquefied petroleum gas	68476-85-7	270-704-2	649-202-00-6	-	F+: R12	

## SECTION 4 First-Aid Measures

### 4.1 Description of first aid measure

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 substance or 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 conforming to EN469.

## 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 undiluted product away from drains, surface and ground waters, 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

<b>7.1 Precautions for safe handling</b>	Avoid physical damage of cylinders. Store in original container in a cool dry, ventilated place out of the reach of children and away from food, drink and animal feeding stuff.
<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

### 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>	For: Aerosol propellant is 1750 mg/m <sup>3</sup>
	<b>Workplace Exposure Limit (WEL) short-term exposure (15 minute reference period)</b>	For: Aerosol propellant is 2180 mg/m <sup>3</sup> .
	<b>Substance name used in Directive EC/98/24 (1st IOELV Directive)</b>	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	A colourless liquid with a kerosene type odour.		
pH	Not applicable.	Solubility in water	Immiscible
Density	Not determined.	Solubility in other solvents	Miscible
Relative density	Not determined.	Explosive properties	Pressurised container: do not puncture or expose to high temperatures.
Flash point	<-40°C (closed cup) for aerosol propellant.	Combustibility	Combustible.
Flammability	Extremely flammable.	Oxidising properties	None known.
Initial boiling Point and boiling range	-2 to -45°C for aerosol propellant.	Evaporation rate	Not determined.
Vapour Density	Not determined.	Partition coefficient: n-octanol/water	Not applicable.
Vapour pressure	Not determined.	Decomposition temperature	Not applicable.

Melting point / Freezing point	Not applicable.	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>	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 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 permethrin LD <sub>50</sub> (rat) > 2000 mg/kg. For d-Allethrin LD <sub>50</sub> (rat) > 1000 mg/kg.
	Inhalation	For permethrin LC <sub>50</sub> (rat) > 0.45 mg/L. For d-Allethrin LC <sub>50</sub> (rat) > 5.77 mg/L (4 h).
	Dermal	For permethrin LD <sub>50</sub> (rat) > 2000 mg/kg. For d-Allethrin LD <sub>50</sub> (rat) > 2000 mg/kg.
Corrosivity/ Irritation	Skin	-
	Eyes	Direct contact of liquid or cold vapour with the eyes may result in corneal damage.
	Respiratory tract	May be irritating to respiratory tract.
Sensitisation	Skin	Contains less than 1% skin sensitisers in the form of permethrin.
	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 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	<p>For permethrin:</p> <p>Fish (<i>Poecilia reticulata</i>) LC<sub>50</sub> (96 h) 8.9 µg/L  Fish (<i>Cyprinus carpio</i>) LC<sub>50</sub> (96 h) 0.145 mg/L  Aquatic invertebrates (<i>Daphnia magna</i>) EC<sub>50</sub> (24 h) 0.020 mg/L  Algae (<i>Scenedesmus subspicatus</i>) EC<sub>50</sub> (72 h) &gt; 0.022 mg/L  Bacteria (Activated sludge) EC<sub>50</sub> (3 h) &gt; 1000 mg/L  Terrestrial invertebrates (<i>Lampito mauritii</i>) LC<sub>50</sub> &gt; 1200 mg/L  Toxic to bees</p> <p>For d-allethrin:</p> <p>Fish (<i>Brachydanio rerio</i>) LC<sub>50</sub> (96 h) 0.0708 mg/L  Aquatic invertebrate (<i>Daphnia magna</i>) EC<sub>50</sub> (48 h) 0.061 mg/L  Algae (<i>Scenedesmus subspicatus</i>) IC<sub>50</sub> (72 h) 1.1 mg/L</p>
<b>12.2 Persistence and degradability</b>	Permethrin is moderately persistent in aquatic environments. DT50 > 1 year (water) at pH 4, 25°C. d-Allethrin is not readily biodegradable and shows a slight inhibiting effect on microorganisms. Aerosol propellant is biodegradable and photochemical degradation in air will proceed at a moderate rate. Hydrocarbon solvent is expected to be readily biodegraded.
<b>12.3 Bioaccumulative potential</b>	Hydrocarbon solvent has the potential to bioaccumulate.
<b>12.4 Mobility in soil</b>	Permethrin and d-allethrin are expected to be adsorbed to soil particles and therefore immobile. Aerosol propellant will disperse rapidly in air and rapidly evaporates from water and soil surfaces. Hydrocarbon solvent floats on the surface of water and is only slightly soluble. In soil it is expected to partially evaporate and be slightly mobile.
<b>12.5 Results of PBT and vPvB assessment</b>	Not determined.
<b>12.6 Other Adverse Effects</b>	None known.

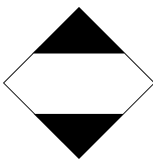
## SECTION 13 Disposal Considerations

<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 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. H3 - Flammable. H5 - Harmful.		
	Substances making the waste hazardous:	Concentrations (%):	
	Permethrin*/ m-phenoxybenzyl 3-(2,2-dichlorovinyl)-2,2-dimethyl-cyclopropanecarboxylate (cis:trans ratio 25:75)	0.46	
	d-Allethrin*/ (RS)-3-allyl-2-methyl-4-oxocyclopent-2-enyl (1R)-cis-trans-chrysanthemate 2-methyl-4-oxo-3-(2-propenyl)-2-cyclopenten-1-yl 2,2-dimethyl-3-(2-methyl-1-propenyl) cyclopropanecarboxylate	0.13	
	Distillates (petroleum), hydrotreated light*	>50.0 ≤100.0	
	Aerosol propellant*/ liquefied petroleum gas	>25.0 ≤50.0	
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)

ADR 2011 (International Road) / IMDG 2010 (Sea)

<b>14.1 UN number</b>	UN1950	<b>RIS Code</b>	PSD89
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<b>14.2 UN Proper Shipping Name</b>	AEROSOLS.	
<b>14.3 Transport hazard class(es)</b>	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	
<b>14.4 Packing Group</b>	Not applicable.	<b>Labels</b> 
Transport Category	2	
<b>14.5 Environmental hazards</b>	Not applicable.	
Marine pollutant	Not applicable.	
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	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.
<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 1.
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)	R12: Extremely flammable. R20/22: Harmful by inhalation and if swallowed. R43: May cause sensitisation by skin contact. 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. H332: Harmful if inhaled. H302: Harmful if swallowed. 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. Ensure you have received adequate training and/or instructions before use.
<b>Further Information</b>	A 250mL and 400mL aerosol can. Supplied in shrink-wrapped packs of six.

## INSECTROL INSECT KILLER

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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. Neither Rentokil Initial plc nor any of its subsidiaries accepts any liability 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.