



Safety Data Sheet

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Issue : 01 16:03:2011

1 IDENTIFICATION OF THE MIXTURE AND COMPANY		
Product identifier	INSECTABAN LIQUID	HSE 6216 PCS 96199
Relevant identified uses of the mixture and uses advised against	A colourless liquid with a solvent odour for professional use as an insecticide. Part of the Deadline Range.	
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: sds@rentokil.com	
National contact	As above.	
Emergency telephone number	0844 892 011 (for use by medical professionals only).	

2 HAZARDS IDENTIFICATION		
Classification according to Regulation (EC) No 1272/2008 (See section 16)		
See section 16 / Not applicable.		
Classification according to Directive 1999/45/EC (See section 16)		
X _n	Harmful	R65
X _i	Irritant	R38
N	Dangerous for the Environment	R50/53
	Flammable	R10
Label elements		
		Harmful. Dangerous for the Environment.
Risk phrase(s) (R), in full.	R10: Flammable. R38: Irritating to skin. R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R65: May cause lung damage if swallowed.	
Safety phrase(s) (S), in full.	S23: Do not breathe fog or spray mist. S37: Wear suitable gloves. S51: Use only in well ventilated areas. S60: This material and its container must be disposed of as hazardous waste. S62: If swallowed, do not induce vomiting, seek medical advice and show this container or label.	
Contains 0.23 % w/w Permethrin. Contains Permethrin. May produce an allergic reaction. To avoid risks to man and the environment, comply with the instructions for use. Safety Data Sheet available to professional user on request.		
Other hazards		
Avoid contact with strong oxidising agents and extremes of temperature. E.g. below 0°C and above 40°C. Inhalation may lead to throat irritation, nausea and vomiting. Ingestion may lead to nausea and vomiting. Inhalation of vapour whilst vomiting or swallowing may cause lung damage. Irritating to skin. No other significant adverse effects expected under normal conditions of handling and use.		

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3 COMPOSITION/INFORMATION ON INGREDIENTS (See section 16)							
% w/w	Common*/ Chemical Name (IUPAC)	CAS No.	EC No.	Index No.	Regulation (EC) No 1907/2006 (REACH) Registration No.	Directive 67/548/EEC classification	Regulation (EC) No 1272/2008 classification
0.23	Permethrin*/3- phenoxybenzyl (1RS, 3RS, 1RS, 3SR)-3-(2,2- dichlorovinyl)-2,2- dimethylcyclopropa necarboxylate	52645-53-1	258-067-9	613-058-00-2	-	X _n : R20/22 X _i : R43 N: R50/53	Not available.
>25 ≤50	Isoalkanes C9-12	90622-57-4	292-459-4	-	-	X _n : R65, R66 R53	Not available.
>25 ≤50	Isoalkanes C11-15	90622-58-5	292-460-6	-	-	X _n : R65, R66	Not available.

4 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.
Emergency Equipment Suggested	Appropriate first-aid equipment should be provided.
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.

5 FIRE FIGHTING MEASURES	
Suitable extinguishing media	Use carbon dioxide, foam or dry powder extinguishers.
Unsuitable extinguishing media	Do NOT use a water jet.
Special hazards arising from the mixture	May give off toxic fumes if heated to decomposition.
Advice for fire-fighters	Wear self-contained breathing apparatus and suitable personal protective equipment conforming to EN469.

6 ACCIDENTAL RELEASE MEASURES	
Personal precautions, protective equipment and emergency procedures	Wear suitable personal protective equipment.
Environmental Precautions	This product is classified as dangerous for the environment. Keep away from drains, surface and ground water, and soil.
Methods and material for containment and cleaning up	Absorb spill with an inert material such as sand, earth or sawdust. Transfer to a suitable container for subsequent disposal.
Reference to other sections	Please also see sections 8 and 13 for further information.
Additional information	Clear spills immediately.

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7 HANDLING AND STORAGE	
Precautions for safe handling	No specific handling requirements.
Conditions for safe storage, including any incompatibilities	Keep away from open flames. 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.
Specific end use(s)	Insecticide.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION		
Exposure standard - Directive 98/24/EC (1st IOELV Directive)	Workplace Exposure Limit (WEL) long-term exposure (8 hour Time Weighted Average).	For Isoalkane solvent is 1200 mg/m ³ using the Reciprocal Calculation method.
	Workplace Exposure Limit (WEL) short-term exposure (15 minute reference period).	Not applicable.
	Substance name used in Directive EC/98/24 (1st IOELV Directive).	Not applicable.
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:	
Eye/face protection	Suitable eye protection such as goggles.	
Hand protection	Suitable hand protection such as gloves.	
Skin/body protection	Suitable skin protection such as coveralls.	
Respiratory protection	Do not breathe spray or mist. Otherwise wear suitable respiratory protection such as Self-contained breathing apparatus (SCBA).	
Environmental Exposure Controls	Use only in accordance with instructions given.	

9 PHYSICAL AND CHEMICAL PROPERTIES			
Appearance and odour/odour threshold	Colourless liquid with a characteristic odour.		
pH	Not applicable.	Solubility in water	Insoluble.
Density	Not determined.	Solubility in other solvents	Soluble.
Specific gravity	0.759 g/mL at 20°C.	Explosive properties	Not determined.
Flash point	55-65°C (closed cup).	Combustibility	Combustible.
Flammability	Flammable.	Oxidising properties	No known oxidising properties.
Boiling point/range	Isoalkane solvent: 175-213 °C.	Evaporation rate	Isoalkane solvent: 0.040 (n-butyl acetate = 1).
Vapour density	Isoalkane solvent: >1.	Partition coefficient: n-octanol/water	Not applicable.
Vapour pressure	Isoalkane solvent: 0.05 kPa at 20°C.	Decomposition temperature	Not determined.
Melting point/freezing point	Not determined.	Auto-ignition temperature	Not determined.
Upper/lower flammability or explosive limits	Isoalkane solvent: Lower explosive limit in air: 0.6 % v/v. Upper explosive limit in air: 7.0 % v/v.	Other safety information	None known.
Viscosity	Isoalkane solvent: 1.60 mm ² /s at 25°C.		

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10 STABILITY AND REACTIVITY	
Reactivity	This product is stable under normal conditions of handling and use.
Chemical stability	This product is stable under normal conditions of handling and use.
Possibility of hazardous reactions	None expected under normal conditions of handling and use.
Conditions to avoid	Avoid heat, sparks and open flames. Avoid extremes of temperature e.g. below 0°C and above 40°C.
Incompatible materials	Avoid contact with strong oxidising agents.
Hazardous decomposition products	May give off toxic fumes if heated to decomposition.

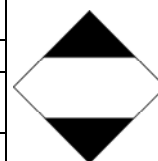
11 TOXICOLOGICAL INFORMATION (SEE ALSO BOX 2)		
Acute Toxicity	Oral	For Product: LD ₅₀ (rat) > 2000 mg/kg.
	Inhalation	For Product: LC ₅₀ (rat) (4h) > 20.25 mg/L.
	Dermal	For Product: LD ₅₀ (rat) > 2000 mg/kg.
Corrosivity/ Irritation	Skin	Irritating to skin.
	Eyes	Not irritating to eyes.
	Respiratory tract	May be irritating to respiratory tract.
Sensitisation	Skin	Test data shows that this product is not sensitising to skin. However, this product contains less than 1% skin sensitisers in the form of Permethrin.
	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.	
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.
	Development	Product does not contain any components known to be toxic to the reproductive system.
Other Information	None known.	

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: Fish (<i>Poecilia reticulata</i>) LC ₅₀ (96 h) 0.0089 mg/L <i>Cyprinus carpio</i> LC ₅₀ (96 h) 0.145 mg/L Daphnia (<i>Daphnia magna</i>) EC ₅₀ (24 h) 0.020 mg/L Algae (<i>Scenedesmus subspicatus</i>) EC ₅₀ (72 h) 0.022 mg/L Other (Lampito mauritii) LC ₅₀ >1200 mg/L Toxic to bees.
Persistence and Degradability	Permethrin: DT ₅₀ > 1 year at pH 4, 25°C. Isoalkane solvent is expected to be readily biodegradable and is expected to degrade rapidly in air.
Bioaccumulative Potential	No data available.
Mobility	Permethrin is strongly absorbed to soil particles with no risk of leaching.
Results of PBT and vPvB assessment	No data available.
Other Adverse Effects	Isoalkane solvent is classified as a Volatile Organic Compound according to Directive 99/13/EC.

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13 DISPOSAL CONSIDERATIONS		
Waste treatment methods	All pesticide waste should be disposed of using EWC code EWC: 20 01 19. If plastic or metal container is empty and triple rinsed, it can be disposed of as non-hazardous controlled waste.	
Product/packaging disposal	This product is dangerous for the environment. Do not discharge to sewers, drains or watercourses. This product must be disposed of as hazardous waste. The empty container may be disposed of as controlled waste in accordance with the appropriate regulations.	
Classification (Council Directive 91/689/EC, Commission Decision 2000/532/EC (amended) Commission Decision 2001/118/EC))	EWC: 20 01 19 Hazard Code: H3B – Flammable H5 – Harmful H14 - Ecotoxic	
	<u>Substances making the waste hazardous</u>	<u>Concentrations (%):</u>
	Permethrin Isoalkanes C9-12 Isoalkanes C11-15	0.23 >25≤50 >25≤50
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.	

14 TRANSPORT INFORMATION (INTERNATIONAL UNLESS OTHERWISE INDICATED)				
UN No.	UN1993			RIS Code
Transport Category	3	UK Hazchem EAC	•3Y	PSD88 2 x 5 L
ADR 2011 (International Road)	Class 3	ADR HIN	30	Labels
Proper Shipping Name	FLAMMABLE LIQUID N.O.S (Contains Isoundecanes and Isodecanes).			
Limited Quantity Exemptions	Maximum quantity per inner receptacle is 5 litres. Maximum quantity per outer package is 30kg. Combination packs only.			
Special provisions	Not required.	Packing Group	III	
IMDG 2010 (Sea)	Class 3	IMDG EMS	F-E, S-E	
Proper Shipping Name	FLAMMABLE LIQUID N.O.S (Contains Isoundecanes and Isodecanes).			
Limited Quantity Exemptions	Maximum quantity per inner receptacle is 5 litres. Maximum quantity per outer package is 30kg. Combination packs only.			
Special provisions	Not required.	Packing Group	III	
Note for Transport	Local, State or National requirements may apply to the carriage of this product.			



15 REGULATORY INFORMATION	
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.
Chemical safety assessment	Information to be made available according to ECHA review programme.

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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> <table><tr><td>ADR 2011</td><td>International Carriage of Dangerous Goods by Road (ADR)</td></tr><tr><td>ADR HIN</td><td>ADR Hazard Identification Number (HIN)</td></tr><tr><td>Annex I DNEL or PNEC</td><td>Derived No Effect Level / Predicted No Effect Concentration</td></tr><tr><td>CAS No</td><td>Chemicals Abstract Service Registry Number</td></tr><tr><td>COSHH assessments.</td><td>Control of substances hazardous to health</td></tr><tr><td>ECHA</td><td>European Chemicals Agency</td></tr><tr><td>EC No</td><td>European Commission number</td></tr><tr><td>EN469</td><td>European standard for Personal Protective Equipment used for fire fighting.</td></tr><tr><td>EN standards for PPE</td><td>European Standards for Personal Protective Equipment</td></tr><tr><td>EWC</td><td>European Waste Catalogue Code</td></tr><tr><td>IMDG 2010</td><td>International Maritime Dangerous Goods (IMDG) Code</td></tr><tr><td>IUPAC</td><td>International Union of Pure and Applied Chemistry</td></tr><tr><td>LD₅₀</td><td>Median lethal dose</td></tr><tr><td>LC₅₀</td><td>Lethal concentration 50</td></tr><tr><td>REACH</td><td>Registration, Evaluation, Authorisation and restriction of Chemicals</td></tr><tr><td>RIS Code</td><td>Internal manufacturing code number</td></tr><tr><td>WEL</td><td>Workplace Exposure Limit</td></tr><tr><td>UK Hazchem EAC</td><td>UK Hazchem Emergency Action Code</td></tr></table> <p>Typical Directives and Regulations referred to Rentokil Initial Safety Data Sheets are as follows:</p> <table><tr><td>Commission Decision 95/320/EC</td><td>Scientific Committee for Occupational Exposure Limits to Chemical Agents</td></tr><tr><td>Commission Decision 2000/532/EC</td><td>List of wastes</td></tr><tr><td>Commission Decision 2001/118/EC</td><td>Amendment to 200/532/EC with regards to List of wastes</td></tr><tr><td>Directive 67/548/EEC</td><td>Dangerous Substances Directive</td></tr><tr><td>Directive 89/686/EEC</td><td>The Personal Protective Equipment (PPE) Directive</td></tr><tr><td>Directive 91/689/EC</td><td>Directive on Hazardous waste</td></tr><tr><td>Directive 98/24/EC (1st IOELV Directive)</td><td>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.</td></tr><tr><td>Directive 1907/2006.</td><td>REACH (Registration, Evaluation, Authorisation and restriction of Chemicals</td></tr><tr><td>Directive 1999/45/EC</td><td>Dangerous Preparations Directive</td></tr><tr><td>Directive 2004/37/EC</td><td>Carcinogens and Mutagens Directive</td></tr><tr><td>Directive (76/768/EC) (as amended)</td><td>The Cosmetics Directive</td></tr><tr><td>Regulation (EC) No. 648/2004</td><td>Detergents Regulation</td></tr><tr><td>Regulation (EC) No 1272/2008</td><td>Classification, Labelling and Packaging</td></tr></table>	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 ₅₀	Median lethal dose	LC ₅₀	Lethal concentration 50	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	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 200/532/EC with regards to List of wastes	Directive 67/548/EEC	Dangerous Substances 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	Directive (76/768/EC) (as amended)	The Cosmetics Directive	Regulation (EC) No. 648/2004	Detergents Regulation	Regulation (EC) No 1272/2008	Classification, Labelling and Packaging
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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 text (From section 3 - These refer to the ingredients only. See section 2 for the product risk phrases)	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. R53: 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.																																																														
Hazard statement text (From section 3 - These refer to the ingredients only. See section 2 for the product risk phrases)	Hazard statements are a requirement of Regulation (EC) No. 1272/2008 and will be listed when available.																																																														
Training advice	Use biocides safely. Always read the label and product information before use. Ensure you have received adequate training and or instructions before use.																																																														
Further information	A UN approved, 5 litre plastic container with a screw top lid. Supplied in packs of two.																																																														

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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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