

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: <u>sds@rentokil.com</u>			
National contact	As above.			
Emergency telephone number	0844 892 011 (for use by medical professionals only).			

Classification according to Regulation (EC) No 1272/2008 (See section 16)

See sect	See section 16 / Not applicable.					
Classifi	Classification according to Directive 1999/45/EC (See section 16)					
X _n	Harmful	R65				
Xi	Irritant	R38				
Ν	Dangerous for the Environment	R50/53				
	Flammable R10					
Lahala	lemente					

Label elements

*	Harmful. Dangerous for the Environment.			
	R10: Flammable. R38: Irritating to skin.			
Risk phrase(s) (R), in full.	R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.			
	R65: May cause lung damage is swallowed.			
	S23: Do not breathe fog or spray mist.			
	S37: Wear suitable gloves.			
Safety phrase(s) (S), in full.	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.

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	-	-	Xn: 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.			

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.

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 -	Workplace Exposure Limit (WEL) long-term exposure (8 hour Time Weighted Average). Workplace	For Isoalkane solvent is1200 mg/m ³ using the Reciprocal Calculation method.		
Directive 98/24/EC (1 st IOELV Directive)	Exposure Limit (WEL) short-term exposure (15 minute reference period).			
	Substance name used in Directive EC/98/24 (1 St IOELV Directive).	Not applicable.		
Appropriate engineering		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 pro	otection	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).		
Environmen Exposure Co		Use only in accordance with instructions given.		

9 PHYSICAL AN	D CHEMICAL PROPE	RTIES		
Appearance and odour/odour threshold	Colourless liquid with a characteristic odour.			
рН	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 mm²/s at 25°C.			

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	dous decomposition May give off toxic fumes if heated to decomposition. cts Composition			

Interference Oral For Product: LD₅₀ (rat) > 2000 mg/kg. Inhalation For Product: LC₅₀ (rat) (4h) > 20.25 mg/L.

	Inhalation	For Product: LC_{50} (rat) (4h) > 20.25 mg/L.			
	Dermal	For Product: LD ₅₀ (rat) > 2000 mg/kg.			
Irritation Eyes		Irritating to skin.			
		Not irritating to eyes.			
		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.			
		Product does not contain any components known to have effects on fertility.			
Toxicity 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 i 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	(Poecilia reticulate) (Cyrinus carpio)	LC₅₀ (96 h) 0.0089 mg/L LC₅₀ (96 h) 0.145 mg/L		
		Daphnia	(Daphnia magna)	EC ₅₀ (24 h) 0.020 mg/L		
		Algae	(Scenedesmus subspicatus)	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.					

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	EWC: 20 01 19				
(Council Directive 91/689/EC,	Hazard Code:				
Commission Decision 2000/532/EC (amended) Commission Decision 2001/118/EC))	H3B – Flammable				
	H5 – Harmful				
	H14 - Ecotoxic				
	Substances making the waste hazardous	Concentrations (%):			
	Permethrin	0.23			
	Isoalkanes C9-12	>25≤50			
	Isoalkanes C11-15	>25≤50			
Note for Disposal	The best means of disposal of any product is through proper use be in accordance with Local, State or National Requirements.	according to the label. Disposal must			

14 TRANSPORT	INFOR	MATION (IN	TERNATIONAL U	NLE	SS OTHERWISE INDICATE	D)
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	FLAMMA	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	
IMDG 2010 (Sea)	Class	3	IMDG EMS	F-E, <u>S</u>	<u>-Е</u>	
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	
Note for Transport	Local, State or National requirements may apply to the carriage of this product.					

15REGULATORY INFORMATIONAuthorisations and/or
restrictions on useInformation to be made available according to ECHA review programme.Other EU regulationsThis 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
assessmentInformation to be made available according to ECHA review programme.

lssue : 01

Revisions	Not applicable.					
Abbreviations and		cronyms used in Rentokil Initial Safety Data Sheets are as follows:				
cronyms	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 EWC	European Standards for Personal Protective Equipment European Waste Catalogue Code				
	IMDG 2010	International Maritime Dangerous Goods (IMDG) Code				
	IUPAC	International Union of Pure and Applied Chemistry				
		Median lethal dose Lethal concentration 50				
	LD ₅₀					
	LC 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				
	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 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 on Hazardous waste				
	Directive 91/689/EC					
	Directive 98/24/EC (1st IOELV	Chemical Agents Directive 98/24/EC Protection of the Health and				
	Directive)	Safety of Workers from the Risks from Chemical Agents. IOELV				
		Directive: Indicative Occupational Exposure Limit Values.				
	Directive 1007/2006					
	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				
		The Cosmetics Directive				
	Directive (76/768/EC) (as amended)					
	Regulation (EC) No. 648/2004	Detergents Regulation				
	Regulation (EC) No 1272/2008	Classification, Labelling and Packaging				
(ey literature	For details of the data and information	on sources used, please contact Rentokil Initial using the details in Section				
eferences and sources or data	1.					
lassification and used	Not currently classified to Regulation	(EC) No. 1272/2008 until 31/05/2015.				
lassification procedure						
or mixtures labelled to						
Directive 1999/45/EC						
ccording to Regulation						
EC) No 1272/2008						
isk phrase text	R20/22: Harmful by inhalation and if	swallowed.				
rom section 3 - These refer	R43: May cause sensitisation by skin contact.					
the ingredients only. See		ms, may cause long-term adverse effects in the aquatic environment.				
ection 2 for the product risk		e effects in the aquatic environment.				
hrases)	R65: Harmful: may cause lung da	mage if swallowed.				
	R66: Repeated exposure may cau	ise skin dryness or cracking.				
lazard statement text	Hazard statements are a requirement	t of Regulation (EC) No. 1272/2008 and will be listed when available.				
From section 3 - These refer						
o the ingredients only. See						
ection 2 for the product risk						
bhrases)						
raining advice	Lise biocides safely. Always read the l	abel and product information before use. Ensure you have received				
anning auvice	adequate training and or instructions					
urther information		er with a screw top lid. Supplied in packs of two.				
	us us approved 5 litro plastic contain	er with a screw ton ligh Nunnlied in nacks of two				

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lssue : 01 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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