

Safety Data Sheet

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Issue: 01 17:10:2007

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY					
Product Name	RENTOKIL INSECTROL PROFESSIO	ONAL			
FIGUUCEMaine	INSECT KILLER HSE 8				
Description	A hand-held, insecticidal aerosol spray with a kerosene type odour. For pr fleas, ants, beetles, earwigs, bedbugs, woodlice and other insects.	ofessional use against cockroaches,			
Company Rentokil Initial Supplies, Liverpool, L33 7SR. Product advice line: 0151 548 5050 Emergency line: 01342 833022 E-mail: <u>eurotech.techinfo@rentokil-initial.com</u>					

2 Clas	2 HAZARD IDENTIFICATION Classification (Supply – Use) : In compliance with EC Directive 1999/45.				
F+	F+ Extremely Flammable R12 Extremely flammable.				
N	Dangerous for the Environment	R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.		
Xn	Harmful	R65	Harmful: may cause lung damage if swallowed.		

Adverse Physical, Chemical, Significant Human Health and Environmental Effects (See also box 11):

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.

3 COMPOSITION / INFORMATION ON INGREDIENTS (SEE ALSO BOX 16)

% w/w	Common*/Chemical Name, ELINCS/EINECS & CAS No. of Ingredients	EC 1999/45 Classification
0.46	Permethrin* / 3-phenoxybenzyl (1RS, 3RS ; 1RS, 3RS)-3-(2,2-dichlorovinyl)-2,2-	X _n : R20/22
	dimethyl cyclopropane carboxylate	: R43
	EINECS : 258-067-9	N : R50,53
	CAS : 52645-53-1	
0.13	d-Allethrin* / (RS)-3-allyl-2-methyl-4-oxocyclopent-2-enyl (1R)-cis-trans-	X _n : R20/22
	chrysanthemate 2-methyl-4-oxo-3-(2-propenyl)-2-cyclopenten-1-yl 2,2-dimethyl-3- (2-methyl-1-propenyl)cyclopropanecarboxylate	N : R50,53
	EINECS : 209-542-4	
	CAS : 231937-89-6	
>50.0 ≤100.0	Aliphatic hydrocarbon* / naphtha (petroleum)	X _n : R65
	EINECS : 265-067-2	
	CAS : 64741-65-7	
>25.0 ≤50.0	Aerosol propellant* / liquefied petroleum gas	F+ : R12
	EINECS : 270-704-2	
	CAS : 68476-85-7	

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		SO "ADVERSE EFFECT	2" IN BUX 2)		
innalation	Remove patient to fresh air, kee		ve measures if necessary and seek		
Eye Contact	medical attention. 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 unc necessary. If conscious give pa	onscious place in the recovery posi tient up to ½ litre or 1 pint of water t	tion and apply supportive measures if to drink. Seek medical attention.		
Emergency Equipment Suggested	Appropriate first-aid equipment sl Safety (First-Aid) Regulations 198	hould be provided. For the UK this sh 81. See also the Approved Code of P	ould be in accordance with the Health & ractice "First-aid at Work"		
Note To Doctor		okil Initial formulations is lodged with			
5 FIRE FIGHTI	NG MEASURES				
Fire Extinguisher Type	Use carbon dioxide, foam, or dr	y powder extinguishers.			
Special Fire-Fighting Procedures	Wear suitable personal protecti	ve equipment.			
Special Exposure Hazards	Polycyclic aromatic hydrocarbon and oxides of nitrogen and carbo released in a fire may act as an	on may be produced in the event of a	d organic and inorganic compounds a fire. Large amounts of propane		
6 ACCIDENTA	L RELEASE MEASU	RES			
Personal Precautions (See also box 8)	Wear suitable personal protecti ventilated.	ve equipment. Remove all sources	of ignition. Ensure area is well		
Environmental Ó Precautions	This product is classified as dar water, and soil.	ngerous for the environment. Keep	away from drains, surface and ground		
	If the aerosol container is damage	ged or pierced, allow the propellant to ntainer for subsequent disposal or re	o vent-off, if possible in a well-ventilated ecycling.		
	AND STORAGE (SEE	ALSO BOX 8)			
Handling Storage	•				
•	CONTROLS/PERSON				
Exposure Standard - Directive EC/98/24 (1 st IOELV Directive)	Workplace Exposure Limit (WE Weighted Average) and 2180 m	L) for aerosol propellant is 1750 mg	y/m ³ long-term exposure (8 hour Time ite reference period). tive EC/98/24 (1 St IOELV Directive).		
Engineering Controls	Where exposure may occur, enq		vision of Personal Protective Equipment		
Eye Protection	, , , , , , , , , , , , , , , , , , , ,	cessary under normal handling and	č , ,		
Hand Protection		cessary under normal handling and	use. However, consider other		
Skin Protection	Label advice indicates none ne	cessary under normal handling and	use. However, consider other		
Breathing Protection	precautionary requirements. Label advice indicates none necessary under normal handling and use. However, consider other precautionary requirements.				
Environmental Use only in accordance with instructions given. Exposure Controls					
9 PHYSICAL A	ND CHEMICAL PRO	PERTIES			
Appearance and Odour					
pH Density	Not applicable. Not determined.	Solubility in Water Solubility in Other Solvents	Immiscible. Miscible.		
Flash Point	<-40°C (aerosol propellant)	Explosive Properties	Pressurised container: do not puncture or expose to high temperatures.		
Flammability	Extremely flammable.	Combustibility	Combustible.		
Boiling Point/Range	-2.045°C (aerosol propellant)	Oxidising Properties	None known.		
Vapour Density	Not determined.	Evaporation Rate	Not determined.		
Vapour Pressure Viscosity	Not determined. Not determined.	Partition Coefficient Other Data	Not applicable. None known.		

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10 STABILITY AND REACTIVITY

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

Acute Toxicity	Oral	For permethrin : LD ₅₀ (rat) : 6620 mg/kg		
		For d-allethrin : LD ₅₀ (rat) : 1000 mg/kg		
	Inhalation	For permethrin : LD ₅₀ (rat) : > 4.638 mg/L		
		For d-allethrin : LD ₅₀ (rat) (2hr) : 2000 mg/m ³		
	Dermal	For permethrin : LD ₅₀ (rat) : >4000 mg/kg		
		For d-allethrin : LD ₅₀ (rat) : 2150 mg/kg		
Corrosivity/	Skin	Direct contact of liquid or cold vapour with the skin may result in cold burns.		
Irritation	Eyes	Direct contact of liquid or cold vapour with the skin may result in corneal damage.		
	Respiratory	May cause irritation to respiratory tract.		
	tract			
Sensitisation	Skin	Contains less than 1% skin sensitisers in the form of permethrin.		
	Respiratory	Contains no known respiratory sensitisers.		
Repeat-Dose To	oxicity	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	Fertility	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	on	None known.		

2 ECOLOGICAL INFORMATION				
General Information	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.			
Ecotoxicity Data	For permethrin :	For d-allethrin :		
	LC ₅₀ (common carp) (96hr) : 0.145 mg/L	LC ₅₀ (<i>Oryzias latipes</i>) (48hr) : <1 mg/L		
	EC ₅₀ (<i>Daphnia magna</i>) (48hr) : 0.02 μg/L	EC ₅₀ (Daphnia sp) (96hr) : 35.6 µg/L		
	LC ₅₀ (Japanese quails) : >11.275 g/kg	E _b C ₅₀ (Scendedesmus subspicatus) (72hr) : 1.1 mg/L		
	EC ₅₀ (Algae) (72hr) : 0.5 mg/L	LC ₅₀ (Colinus virginianus) (8d) : 5620 mg/kg diet		
		LC ₅₀ (Apis mellifera) (48hr) : 3.4 μg/bee		
Mobility	d-Allethrin is expected to be mobile and bind to soil. Aerosol propellant will disperse rapidly in air and rapidly evaporate if released to water or soil.			
Persistence and	Permethrin is moderately persistent in aquatic organisms.			
Degradability	d-Allethrin will biodegrade by up to 28% after 28 days and is photolytically unstable.			
	Photochemical degradation of aerosol propellant in air will proceed at a moderate rate.			
Bioaccumulative Potential	Hydrocarbon solvent has a high potential to bioaccumulate.			
Other Adverse Effects	None known.			

13 DISPOSAL CONSIDERATIONS				
Disposal of Waste / Containers	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.			
Classification	Hazard Code: H3A(i) – Highly flammable; H5 – Harmful; H14 - Ecotoxic			
(Council Directive 91/689/EC,	Components making the waste hazardous	Concentrations (%):		
Commission Decision 2000/532/EC (amended) Commission Decision	Permethrin	0.46		
2001/118/EC))	d-Allethrin	0.13		
	Hydrocarbon solvent	> 50 ≤100.0		
	Aerosol propellant	>25.0 ≤50.0		
Note for Disposal	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.			

14 TRANSPORT INFORMATION (INTERNATIONAL UNLESS OTHERWISE INDICATED)				
UN No.	UN1950	Tremcard Reference No.	CEFIC TEC (R)- 20G5F	RIS Code
Transport Category	2	UK Hazchem EAC	Not applicable, aerosols are not allowed to be carried in tanks or in bulk.	PSI38
ADR 2007 (International Road)	Class 2	ADR HIN	Not applicable, aerosols are not allowed to be carried in tanks or in bulk.	Labels
Proper Shipping Name	AEROSOLS			
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.			
Special Requirements	Not required. Packing Group Not required.		\langle UN1950 \rangle	
IMDG 2006	Class 2 IMDG EMS F-D, S-U			
(Sea)				
Proper Shipping Name	AEROSOLS			
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.			
Special Requirements	Not required.		Packing Group Not required.	
Note for Transport	Local, State or National requirements may apply to the carriage of this product.			

15 REGULAT	ORY INFORMATION (HEALTH AND SAFETY INFORMATION (SEE ALSO BOX 2))
Safety Phrases Additional Label Phrases Legislation	S13 Keep away from food, drink and animal feeding stuffs. 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 permethrin. May produce an allergic reaction. To avoid risks to man and the environment, comply with the instructions for use. 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) does not 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.

16 Other Information and indication of revisions			
Packaging Information	A 400 mL aerosol can.		
Revisions Not applicable.			
Risk phrase text (From box 3 - These refer to the ingredients only. See box 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. 		

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Before using any produc	t, ensure that you read and understand its	label.	
		r knowledge and belief, accurate and reliable at the ti	
information relates only to	the specific material designated in this safety	data sheet and may not be valid for such material if it	t 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 thi	s product for any other
purpose than that describe	d in this safety data sheet. This does not affe	ect your statutory rights. It is the user's responsibility t	to satisfy him/herself as
to the suitability in complet	eness of such information for his/her own parti	icular use.	

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