

Products

Safety Data Sheet

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REVISION (see box 16)

Issue : 06 28 : 10 : 2005

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY	
Product Name	INSECTROL
Description	Product is an insecticide for amateur use. Contained in a hand-held aerosol, dispensing a colourless liquid with a kerosene type odour.
Company	Rentokil Initial Supplies, Head office: Felcourt, East Grinstead, West Sussex. RH19 2JY. United Kingdom. Telephone: +44 (0)1342 833022 Facsimile: +44 (0)1342 326229

2 HAZARD IDENTIFICATION	
Classification (Supply – Use) : In compliance with EC Directive 1999/45.	
F+ Extremely Flammable	R12 Extremely flammable
X_n Harmful	R65 Harmful: May cause lung damage if swallowed
N Dangerous for the Environment	R50,53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
Adverse Physical, Chemical, Significant Human Health and Environmental Effects (See also box 11):	
This product is extremely flammable, do not use near sources of ignition (e.g. naked flames or light bulbs). 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. 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
0.47	Permethrin* / 3-phenoxybenzyl (1 <i>RS</i> ,3 <i>RS</i> ;1 <i>RS</i> ,3 <i>SR</i>)-3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate EINECS : 258-067-9 CAS : 52645-53-1	X _n : R20/22 X _i : R43 N : R50,53
0.09	Bioallethrin* / (RS)-3-allyl-2-methyl-4-oxocyclopent-2-enyl (1 <i>R</i> ,3 <i>R</i>)-2,2-dimethyl-3-(2-methylprop-1-enyl)cyclopropanecarboxylate EINECS : 209-542-4 CAS : 584-79-2	X _n : R20/22 N : R50,53
>50.0 ≤100.0	Odourless kerosene* / distillates (petroleum), hydrotreated light; kerosene unspecified EINECS : 265-149-8 CAS : 64742-47-8	X _n : R65 X _n : R66
>25.0 ≤50.0	Aerosol propellant* / liquefied petroleum gas EINECS : 270-704-2 CAS : 68476-85-7	F+ : R12

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4 FIRST-AID MEASURES (SEE ALSO “ADVERSE EFFECTS” IN BOX 2)	
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. 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”.
Note To Doctor	Further information on all Rentokil Initial formulations is lodged with the National Poisons Information Service in the UK.

5 FIRE FIGHTING MEASURES	
Fire Extinguisher Type	Use carbon dioxide, foam or dry powder extinguishers. DO NOT use water jets.
Special Fire-Fighting Procedures	Wear self-contained breathing apparatus and suitable personal protective equipment.
Special Exposure Hazards	Oxides of carbon and other harmful gases may be produced in the event of a fire.

6 ACCIDENTAL RELEASE MEASURES	
Personal Precautions (See also box 8)	Wear suitable personal protective equipment. Remove all sources of ignition. Ensure area is well ventilated.
Environmental Precautions	This product is classified as dangerous for the environment. Keep away from drains, surface and ground water, and soil.
Clean-up Procedure (See also box 13)	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.

7 HANDLING AND STORAGE (SEE ALSO BOX 8)	
Handling Storage	Avoid puncturing. 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.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION	
Exposure Standard - Directive EC/98/24 (1st IOELV Directive)	Workplace Exposure Limit (WEL) aerosol propellant is 1750 mg/m ³ long-term exposure (8 hour Time Weighted Average) and 2180 mg/m ³ short-term exposure (15 minute reference period). Aerosol propellant is referred to as liquefied petroleum gas in Directive EC/98/24 (1 st IOELV Directive).
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 Protection	None necessary during normal handling and use.
Hand Protection	None necessary during normal handling and use.
Skin Protection	None necessary during normal handling and use.
Breathing Protection	None necessary during normal handling and use.
Environmental Exposure Controls	Use only in accordance with instructions given.

9 PHYSICAL AND CHEMICAL PROPERTIES			
Appearance and Odour	A colourless liquid with a kerosene type odour.		
pH	Not applicable.	Solubility in Water	Immiscible.
Specific Gravity	0.7 at 20°C	Solubility in Fat	Miscible.
Flash Point	<-40°C (aerosol propellant)	Explosive Properties	Pressurised container. May explode if exposed to direct sunlight or temperatures exceeding 50°C.
Flammability	Extremely flammable.	Combustibility	Combustible. Non-combustible.
Boiling Point/Range	Starts at ca. -0.5°C (butane/propane)	Oxidising Properties	None.
Vapour Density	Not determined.	Evaporation Rate	Not determined.
Vapour Pressure	Not determined.	Partition Coefficient	Not applicable.
Viscosity	Not applicable.	Other Data	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	Do not spray on naked flame, electrical equipment or any incandescent material.
Hazardous Breakdown Products	Oxides of carbon and other harmful gases may be produced in the event of a fire.

11 TOXICOLOGICAL INFORMATION (SEE ALSO BOX 2)

Acute Toxicity	Oral	Harmful: May cause lung damage if swallowed For permethrin: LD ₅₀ (rat): 1479 mg/kg For bioallethrin: LD ₅₀ (rat): 709 – 1042 mg/kg Ingestion may lead to drowsiness and loss of consciousness.
	Inhalation	For permethrin: LD ₅₀ (rat): 25 mg/L air (4hr) LC ₅₀ (rat): > 0.599 mg/l (4hr – highest attainable concentration) For bioallethrin: LC ₅₀ inhalation (rat): > 2.51 mg/m ³ /4 hr. Inhalation of excessive vapours may lead to drowsiness, loss of consciousness and subsequent asphyxiation.
	Dermal	For permethrin: LD ₅₀ (rat): > 2000 mg/kg For bioallethrin: LD ₅₀ (rabbit): > 3000 mg/kg Direct contact with skin may cause cold burns.
Corrosivity/Irritation	Skin	May be irritating to skin. Direct skin contact with the aerosol may cause cold burns. Prolonged skin contact may de-fat the skin and produce dermatitis.
	Eyes	May be irritating to eyes. Direct eye contact with the aerosol may cause cold burns.
	Respiratory tract	Inhalation of high vapour concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting. May ultimately cause unconsciousness.
Sensitisation	Skin	Not expected to be sensitising to skin.
	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: LC ₅₀ 96 hr : 0.0054 mg/L (Brown trout) LC ₅₀ (24h): 0.6 µg/L (<i>Daphnia magna</i>) EC ₅₀ (72h): 0.5 mg/L (Algae) For bioallethrin: LC ₅₀ (96h): 9.7 µg/L (Rainbow trout) EC ₅₀ (48h): 3.56 µg/L (<i>Daphnia magna</i>)
Mobility	The solvents in the product will evaporate quickly.
Persistence and Degradability	Product is likely to degrade over several days.
Bioaccumulative Potential	The bioallethrin in this product has the potential to bioaccumulate.
Other Adverse Effects	None.

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 (Council Directive 91/689/EC, Commission Decision 2000/532/EC (amended) Commission Decision 2001/118/EC)	Hazard Code: H3A(i) – Highly flammable; H5 – Harmful; H14 - Ecotoxic Components making the waste hazardous Concentrations (%): Permethrin 0.47 Bioallethrin 0.09 Odourless kerosene >50.0 ≤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.

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14 TRANSPORT INFORMATION (INTERNATIONAL UNLESS OTHERWISE INDICATED)				
UN No.	1950	Tremcard Reference No.	CEFIC TEC (R)- 20G5A	RIS Code
Transport Category	2	UK Hazchem EAC	Not applicable, aerosols are not allowed to be carried in tanks or in bulk.	PSI24
ADR 2005 (International Road) Proper Shipping Name	CLASS 2 AEROSOLS	ADR HIN	Not applicable, aerosols are not allowed to be carried in tanks or in bulk.	Labels
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.			6 x 250 mL 
Special Requirements	Not required. Packing Group Not required.			
IMDG 2004 (Sea) Proper Shipping Name	Class 2 AEROSOLS	IMDG EMS	F-D, S-U	
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 REGULATORY INFORMATION (HEALTH AND SAFETY INFORMATION (SEE ALSO BOX 2))	
Safety Phrases	S2 Keep out of the reach of children. 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. S61 Avoid release to the environment. Refer to special instructions/safety data sheet.
Additional Label Phrases	To avoid risks to man and the environment, comply with instructions for use. Contains permethrin. May produce an allergic reaction.
Legislation	Labelling is according to 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 sort where appropriate.

16 Other Information and indication of revisions	
Packaging Information	A 250 mL aerosol can.
Revisions	Changes have been made to the content of boxes 1, 2, 3, 4, 5, 7, 8, 9, 10, 11, 12, 13, 14, 15 & 16 (as indicated by the thick lines on the left-hand side of the boxes) compared with issue 05.
Risk phrase text (From box 3 - These refer to the ingredients only. See box 11 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.

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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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