

Products

Safety Data Sheet

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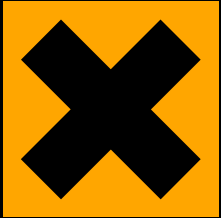
Issue : 01 19 : 11 : 2004

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

PRODUCT NAME	FLY, ANT AND WASP KILLER
DESCRIPTION	A hand-held, insecticidal aerosol spray with a floral fragrance. For amateur use against flies, ants, wasps and other flying or crawling insects including moths, mosquitoes, woodlice, beetles, silverfish, fleas and cockroaches.
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 AND DANGER SYMBOL (SUPPLY – USE) : IN COMPLIANCE WITH EC DIRECTIVE 1999/45.

F+	Extremely Flammable	R12	Extremely flammable.	 EXTREMELY FLAMMABLE	 HARMFUL
X_n	Harmful	R65	Harmful: may cause lung damage if swallowed.		
	Dangerous for the Environment	R52,53	Harmful to aquatic organisms, may cause long-term adverse effects on the aquatic environment.		

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).
 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. 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.
 Adverse effects on the environment are unlikely, provided that the product is used as intended.

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

% w/w	COMMON*/CHEMICAL NAME, ELINCS/EINECS & CAS No. OF INGREDIENTS	EC 1999/45 CLASSIFICATION
0.23	Permethrin* / 3-phenoxybenzyl (1RS, 3RS ; 1RS, 3RS)-3-(2,2-dichlorovinyl)-2,2-dimethyl cyclopropane EINECS : 258-067-9 CAS : 52645-53-1	X _n : R22 N : R50,53 R57
0.11	Bioallethrin* / (RS)-3-allyl-2-methyl-4-oxocyclopent-2-enyl (1R, 3R ; 1R, 3S)-2,2-dimethyl-3-(2-methylprop-1-enyl)cyclopropanecarboxylate EINECS : 209-542-4 CAS : 584-79-2	X _n : R20/22 N : R50,53
>25.0 ≤50.0	Isoparaffin* / Naphtha (petroleum), heavy alkylate EINECS : 265-067-2 CAS : 64741-65-7	X _n : R65 R66
≤0.1	Perfume* EINECS : Not listed CAS : Not listed	N : R51/53
>50.0 ≤100.0	Aerosol propellant* / Petroleum gases, liquefied EINECS : 270-704-2 CAS : 68476-85-7	F+ : R12

FLY, ANT AND WASP KILLER

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. Telephone +44 (0) 870 600 6266 - 24 hours.

5 FIRE FIGHTING MEASURES	
FIRE EXTINGUISHER TYPE	Use dry powder, carbon dioxide or foam extinguishers.
SPECIAL FIRE-FIGHTING PROCEDURES	Wear suitable personal protective equipment.
SPECIAL EXPOSURE HAZARDS	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.

6 ACCIDENTAL RELEASE MEASURES	
PERSONAL PRECAUTIONS (See also box 8)	Wear suitable personal protective equipment.
ENVIRONMENTAL PRECAUTIONS	DO NOT contaminate watercourses or ground.
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	
HANDLING	Avoid contact with skin and eyes. Do not spray on a naked flame, electrical equipment or any incandescent material.
STORAGE	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. Pressurised container: Protect from sunlight and do not expose to temperatures exceeding 50°C. Keep away from sources of ignition - No smoking.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION (SEE ALSO BOX 7)	
EXPOSURE STANDARD - DIRECTIVE EC/98/24 (1ST IOELV DIRECTIVE)	WEL for 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 (LPG) in Directive EC/98/24 (1 ST IOELV Directive).
ENGINEERING CONTROLS	Manufactures WEL for bioallethrin is 3.8 mg/m ³ long-term exposure (8 hour Time Weighted Average). Where prevention of exposure is not reasonably practicable, adequate control of exposure should be achieved by engineering controls rather than the provision of personal protective equipment and clothing. More specific details cannot be given without carrying out a full risk assessment for each and every use scenario. Suitable and approved personal protective equipment and clothing may include the following item(s):
EYE PROTECTION	None necessary under normal working conditions.
HAND PROTECTION	None necessary under normal working conditions. However, wash hands and exposed skin before meals and after use.
SKIN PROTECTION	None necessary under normal working conditions. However, keep off skin and wash hands and exposed skin before meals and after use.
BREATHING PROTECTION	None necessary under normal working conditions. However, do not breathe spray.
ENVIRONMENTAL EXPOSURE CONTROLS	Product should be used in accordance with instructions given.

9 PHYSICAL AND CHEMICAL PROPERTIES			
APPEARANCE AND ODOUR	Aerosol spray with a floral fragrance.		
pH	Not applicable.	SOLUBILITY IN WATER	Immiscible.
DENSITY	0.6 at 20°C	SOLUBILITY IN FAT	Miscible.
FLASH POINT	<-40°C (closed cup)	EXPLOSIVE PROPERTIES	Not determined.
FLAMMABILITY	Extremely flammable.	COMBUSTIBILITY	Combustible.
AUTOFLAMMABILITY	Not determined.	OXIDISING PROPERTIES	Not determined.
BOILING POINT/RANGE	-2°C to -40°C (aerosol propellant)	MELTING POINT/RANGE	Not applicable.
VAPOUR DENSITY	Not determined.	EVAPORATION RATE	Not determined.
VAPOUR PRESSURE	Not determined.	PARTITION COEFFICIENT	Not applicable.
VISCOSITY	1.85 x 10 ⁻⁶ m ² /s at 25°C	OTHER DATA	None known.

FLY, ANT AND WASP KILLER

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	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): 1479 mg/kg For bioallethrin: LD ₅₀ (rat): 709 – 1042 mg/kg
	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 (rat): 2.51 mg/L
	DERMAL	For permethrin: LD ₅₀ (rat): > 2000 mg/kg For bioallethrin: LD ₅₀ (rabbit): > 3000 mg/kg
CORROSIVITY/ IRRITATION	SKIN	Not expected to be irritating to skin.
	EYES	Not expected to be irritating to eyes.
	RESPIRATORY TRACT	Not expected to be irritating to respiratory tract.
SENSITISATION	SKIN	Isoparaffin solvent: Repeated exposure may cause skin dryness or cracking.
	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 DEVELOPMENT	Product does not contain any components known to have effects on fertility.
OTHER INFORMATION		Product does not contain any components known to be toxic to the reproductive system. None.

12 ECOLOGICAL INFORMATION

GENERAL INFORMATION	The full ecotoxicological profile of this product has not been evaluated. Do not contaminate the environment.
ECOTOXICITY DATA	For permethrin: Fish: LD ₅₀ (96h): 0.0054 mg/L (Brown trout) Daphnia: LC ₅₀ (24h): 0.6 µg/L (<i>Daphnia magna</i>) EC ₅₀ (48h): 0.00017 mg/L (<i>Daphnia magna</i>) Algae: EC ₅₀ (72h): 0.5 mg/L (Algae) For bioallethrin: Fish: LC ₅₀ (96h): 0.0094 mg/L (<i>Oncorhynchus kisutch</i>) Daphnia: EC ₅₀ (48h): 0.0356 mg/L (<i>Daphnia magna</i>)
MOBILITY (of appropriate constituents)	Aerosol propellant: The product is volatile/gaseous and will partition to the air phase. If released to air, it will disperse rapidly.
PERSISTENCE AND DEGRADABILITY (of appropriate constituents)	Isoparaffin solvent: Insoluble in water; if released to water it will float.
BIOACCUMULATIVE POTENTIAL (of appropriate constituents)	Aerosol propellant: Photochemical degradation in air will proceed at a moderate rate. Considered by the UN as 'less important' in the formation of episodic ozone.
ENVIRONMENTAL CONSIDERATIONS	Not determined. DO NOT contaminate watercourses or ground. This product is classified as harmful to aquatic organisms and may cause long-term adverse effects in the aquatic environment. Thus, every care must be taken to avoid its release and the subsequent contamination of the aquatic environment.
OTHER ADVERSE EFFECTS	None.


13 DISPOSAL CONSIDERATIONS

DISPOSAL OF WASTE	Waste should be disposed of in accordance with local, State or National requirements.															
DISPOSAL OF CONTAINERS:	Empty containers should be disposed of in accordance with local, State or National requirements.															
CLASSIFICATION OF INGREDIENTS. (Council Directive 91/689/EC, Commission Decision 2000/532/EC (amended) Commission Decision 2001/118/EC)	<u>Hazard Code:</u> H3A(i) – Highly Flammable, H5 – Harmful, H14 - Ecotoxic															
NOTE FOR DISPOSAL	<table border="0"> <tr> <td colspan="2"><u>Components making the waste hazardous</u></td> <td><u>Concentrations (%):</u></td> </tr> <tr> <td></td> <td>Permethrin</td> <td>0.23</td> </tr> <tr> <td></td> <td>Bioallethrin</td> <td>0.11</td> </tr> <tr> <td></td> <td>Isoparaffin</td> <td>>25.0 ≤50.0</td> </tr> <tr> <td></td> <td>Aerosol propellant</td> <td>>50.0 ≤100.0</td> </tr> </table> <p>Disposal should be in accordance with local, State or National requirements. 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.</p>	<u>Components making the waste hazardous</u>		<u>Concentrations (%):</u>		Permethrin	0.23		Bioallethrin	0.11		Isoparaffin	>25.0 ≤50.0		Aerosol propellant	>50.0 ≤100.0
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	Permethrin	0.23														
	Bioallethrin	0.11														
	Isoparaffin	>25.0 ≤50.0														
	Aerosol propellant	>50.0 ≤100.0														

14 TRANSPORT INFORMATION (INTERNATIONAL UNLESS OTHERWISE INDICATED)

UN No.	UN1950	TREMCARD REFERENCE No.	CEFIC TEC (R)- 20G5A	RIS CODE
TRANSPORT CATEGORY	3	UK HAZCHEM EAC	Not applicable, aerosols are not allowed to be carried in tanks or in bulk.	PSF133 (6 x 300ML)
ADR 2005 (INTERNATIONAL ROAD) PROPER SHIPPING NAME LIMITED QUANTITY EXCEPTIONS	CLASS 2	ADR HIN	Not applicable, aerosols are not allowed to be carried in tanks or in bulk.	LABELS
SPECIAL REQUIREMENTS	AEROSOLS 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.			
IMDG 2004 (SEA) PROPER SHIPPING NAME LIMITED QUANTITY EXCEPTIONS	CLASS 2	IMDG EMS F-D, S-U		
SPECIAL REQUIREMENTS	AEROSOLS 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.			

15 REGULATORY INFORMATION (HEALTH AND SAFETY INFORMATION (SEE ALSO BOX 2))

HAZARD SYMBOLS			
INDICATION OF DANGER	F+ Extremely Flammable		
RISK PHRASES	R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the environment.	
SAFETY PHRASES	S2	Keep out of the reach of children.	
	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.	
LEGISLATION	S46	If swallowed, seek medical advice immediately and show this container or label.	
	Labelling is according to UK regulations implementing the EC Directive 1999/45. Additional labelling requirements may be necessary in accordance with local legislation. Specific legislation used within this Safety Data Sheet is listed in the above boxes.		

16 OTHER INFORMATION and indication of revisions

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.

Before using any product, ensure that you read and understand its label.

Outside the UK, the registration of this product may be necessary before use and any additional local requirements must be observed at all times.

REVISIONS	Not applicable.		
RISK PHRASE TEXT (from box 3)	R12	: Extremely flammable.	
	R22	: Harmful if swallowed.	
	R20/22	: Harmful by inhalation and if swallowed.	
	R50,53	: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment	
	R51,53	: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.	
	R57	: Toxic to bees.	
	R65	: Harmful: may cause lung damage if swallowed.	
	R66	: Repeated exposure may cause skin dryness or cracking.	

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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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