

RK-00005



Rentokil Initial

Products

Safety Data Sheet

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REVISION (see box 16)

IDENTIFICATION OF THE SUBSTANCE/PREPARED AND COMPANY

PRODUCT NAME	FLY AND WASP KILLER	
DESCRIPTION	A hand-held aerosol, dispensing a colourless liquid insecticide with a fragranced odour. For indoor use in the control of flying insects.	
COMPANY	Rentokil Initial Supplies, Head office: Felcourt, East Grinstead, West Sussex RH19 2TY, United Kingdom. Telephone: +44 (0)1342 813022 Facsimile: +44 (0)1342 326229	

2 HAZARD IDENTIFICATION

CLASSIFICATION AND DANGER SYMBOL (SDS/EC = Lsd)		In compliance with EC Directives 1999/45 & 1999/41	
F+ Extremely Flammable R12		Extremely Flammable	
Dangerous for the Environment R50/53		Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.	

ADVERSE PHYSICO-CHEMICAL, HUMAN HEALTH AND ENVIRONMENTAL EFFECTS (See also box 11)

Product is extremely flammable, do not use near sources of ignition (eg. 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 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.

EXTREMELY FLAMMABLE

COMPOSITION / INFORMATION ON INGREDIENTS

% w/w	COMMON/Chemical NAME EINECS/CAS OR INCI-NAME	EC 1999/45 CLASSIFICATION
0.02	Permethrin* / 3-phenoxybenzyl (I.R.S., I.R.S., I.R.S., I.R.S.); 3-(2,2-dichlorovinyl)-2,2-dimethyl cyclopropane carboxylate EINECS 258-067-9 CAS : 52645-53-1	Xn - Harmful R22 : Harmful if swallowed. N - Dangerous for the environment R50/53 : Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
0.23	Tetramethrin* / 3,4,5,6-Tetrahydrophthalimidomethyl- (1R,S)-cis,trans-dihydranthemate EINECS 231-711-6 CAS 7698-12-0	N - Dangerous for the environment R50/53 : Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
≤ 2.5	Piperonyl butoxide* / 1-(2-Butoxyethoxyethyl 6-propylpiperonyl ether EINECS Not known. CAS : 51-03-6	N - Dangerous for the environment R50/53 : Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
≤ 2.5	Perfume*	Xn - Irritant R43 : May cause sensitisation by skin contact. N - Dangerous for the environment R51/53 : Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
> 10 ≤ 25	Cobaltfree Kerogen* / Distilled Petroleum, Hydrotreated light, kerogen unspecified EINECS 263-149-9 CAS : 64742-47-8	Xn - Irritant R65 : Harmful may cause lung damage if swallowed.
> 25 ≤ 50	Aerosol propellant* / Butane & Propane mixture EINECS 270-704-2 CAS : 68476-HS-7	R66 : Repeated exposure may cause skin dryness or cracking. F+ - Extremely Flammable R12 : Extremely flammable.

14 TRANSPORT INFORMATION (INTERNATIONAL, UNLESS OTHERWISE INDICATED)

UN No	UN1950	TRIMCARD REFERENCE NO.	CERFIC TEC (R)-20GSA	CLARIBA
UK CDO/CPLZ (UK ROAD)	CLASS 2	UK HAZCHEM EAC	Not applicable, aerosols are not allowed to be carried in tanks or in bulk.	
UK CDO/ROAD TRANSPORT CATEGORY	3			
PAINTER SHIPPING NAME	AEROSOLS			UN1950
LIMITED QUANTITY EXCEPTIONS	Individual aerosols should not exceed 1000ml. The total gross weight of the package must not exceed 30kg.			
SPECIAL REQUIREMENTS	Not required.	PACKING GROUP	Not required.	
ADR 2009 (INTERNATIONAL ROAD)	CLASS 2 AD09H			
PAINTER SHIPPING NAME	AEROSOLS			
LIMITED QUANTITY EXCEPTIONS	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.	
IMDG 2002 (SEA)	CLASS 2 IMDG EMS			
PAINTER SHIPPING NAME	AEROSOLS			
LIMITED QUANTITY EXCEPTIONS	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 ON 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		
CLASSIFICATION	F+ - EXTREMELY FLAMMABLE	DANGEROUS FOR THE ENVIRONMENT
RISK PHRASES	R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic 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. S46 If swallowed, seek medical advice immediately and show this container or label. S51 Use only in well-ventilated areas.	
REGULATION	Labelling is according to UK regulations implementing the EC Directive 1999/45 & 1994/11. Additional labelling requirements may be necessary in accordance with local legislation. Specific legislation listed 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.

Changes have been made to the content of boxes 1, 2, 3, 4, 6, 8, 9, 11, 12, 13, 14, 15 & 16 (as indicated by the thick lines on the left-hand side of the boxes) compared with issue 04

SDS No. 070**FLY AND WASP KILLER**

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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 notify him/herself as to the suitability in completeness of such information for his/her own particular use.

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: Permethrin LD ₅₀ (rat) : 1470 mg/kg. Tetramethrin LD ₅₀ (rat) : >2000 mg/kg.
	INHALATION: Permethrin LC ₅₀ (rat) : 25 mg/l air/4 hr Tetramethrin LC ₅₀ (rat) : > 3.33 mg/l
	DERMAL: Permethrin LD ₅₀ (rat) : >2000 mg/kg. Tetramethrin LD ₅₀ (rat) : >2000 mg/kg.
CORROSIVITY/ IRRITATION	Skin: Contact with the aerosol mist may cause cold burns. Prolonged skin contact with the liquid product may de-fat the skin and produce dermatitis. EYES: Contact with the aerosol mist may cause cold burns. Contact with the liquid product will cause intense smarting and irritation.
	RESPIRATORY TRACT: Inhalation of high vapour concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting. May ultimately cause loss of consciousness.
SENSITISATION	SKIN: Contains less than 1% skin sensitizers in the form of amyl cinnamal, benzyl salicylate, citronellal and geraniol. RESPIRATORY: Contains no known respiratory sensitizers.
REPEATED-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 FERTILITY/ TOXICITY	Product does not contain any components known to be toxic to the reproductive system, and having effects on fertility.
DEVELOPMENTAL	Product does not contain any components known to be toxic to the reproductive system, and having effects on development.
OTHER INFORMATION	Atropine can be administered as an antidote. Permethrin : Human ADI (Acceptable Daily Intake) : 0.05 mg/kg.

12 ECOLOGICAL INFORMATION

GENERAL INFORMATION	The full ecotoxicological profile of this product has not been evaluated. Do not contaminate the environment.
ECOTOXICITY DATA	Permethrin: Fish: LD ₅₀ (96h): 0.0054 mg/l (Brown trout) Tetramethrin: Fish: LC ₅₀ (96h): 0.0037 mg/l (<i>Oncorhynchus mykiss</i>). Piperonyl butoxide: Fish: LC50 (96h): 5.37 mg/l (<i>Lepomis macrochirus</i>)
MOBILITY (OF APPROPRIATE CONSTITUENTS)	The kerosene and propellant in the product will evaporate quickly.
PERSISTENCE AND DEGRADABILITY (OF APPROPRIATE CONSTITUENTS)	Product is likely to degrade over several days.
BIOACCUMULATIVE POTENTIAL (OF APPROPRIATE CONSTITUENTS)	Product is not likely to bioaccumulate.
ENVIRONMENTAL CONSIDERATIONS	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 known.

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	Hazard Code: H31A(i) - Highly Flammable ; H41 - Ecotoxic
COUNCIL DIRECTIVE 91/689/EEC	Components making the white hazardous Concentration (%):
COMMISSION DECISION 2000/532/EC (AMENDMENT)	Permethrin 0.02 Tetramethrin 0.25 Acetyl propellate > 25 & 50
COMMISSION DECISION 2001/118/EC	
NOTE ON DISPOSAL	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 rule from anywhere in the UK: 0845 9333111.

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 1 pint of water to drink. Seek medical attention.
EMERGENCY EQUIPMENT/HANDOVER NOTE TO DOCTOR	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". Further information on all Required Initial Informations is lodged with the National Poisons Information Service in the UK. Telephone +44 (0) 870 600 6266 - 24 hours.

5 FIRE FIGHTING MEASURES

FIRES 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. Remove all sources of ignition. Ensure area is well-ventilated.
PROCEDURE (See also box 8)	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. DO NOT contaminate watercourses or ground.

7 HANDLING AND STORAGE

HANDLING	Avoid contact with skin. 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 (EU))	DES for aerosol propellant (liquefied petroleum gas) 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), for butane is 1450 mg/m ³ long-term exposure (8 hour TWA) and 1810 mg/m ³ short-term exposure (15 minute reference period). Propane is listed as an asphyxiant where the oxygen content of air should never be allowed to fall below a minimum of 19% by volume under normal atmospheric pressure.
ENGINEERING CONTROLS	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):
EYEL 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 and use only in well-ventilated areas.
ENVIRONMENTAL EXPOSURE CONTROLS	Product should be used in accordance with instructions on the label and any spillage should be dealt with as a priority in order that contamination of watercourses or ground is minimised.

9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOUR	A hand-held aerosol, dispensing a colourless liquid insecticide with a fragranced odour.		
pH	Not applicable.	SOLUBILITY IN WATER	Miscible.
SPECIFIC GRAVITY	0.773 at 20°C	SOLUBILITY IN FAT	Miscible.
FLASH POINT	-104°C (aerosol propellant)	EXPLOSIVE PROPERTIES	Pressurised container may explode if exposed to direct sunlight or temperatures exceeding 50°C.
FLAMMABILITY	Extremely flammable.	BOILING POINT/FLAMM.	Starts at ca. -0.5°C (aerosol propellant).
AUTOFLAMMABILITY	Not determined.	MELTING POINT/FLAMM.	Not applicable.
VAPOUR DENSITY	Not determined.	EVAPORATION RATE	Not determined.
VAPOUR PRESSURE	Not determined.	PAINTTION COEFFICIENT	Not applicable.
VISCOOSITY	Not applicable.	OXIDISING PROPERTIES	None known.
OTHER DATA	None known.		