

Safety Data Sheet

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REVISION (see box 16)

Issue : 7

03 : 06 : 2013

SECTION 1 Identification of the substance/mixture and of the company/undertaking.

1.1 Product identifier	Pyrethrum Fogging Fluid.	PCS 94102
1.2 Relevant identified uses of the substance or mixture and uses advised against	An insecticide for professional use in the control of flying insects by cold or thermal fogging. A clear pale yellow liquid with a mineral-oil type odour.	
1.3 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: sds@rentokil.com	
National contact	Rentokil Initial Supplies, Liverpool, L33 7SR, UK. Product advice line: +44 (0)151 548 5050 Emergency line: +44 (0)1342 833 022 E-mail: sds@rentokil.com	
1.4 Emergency telephone number	0844 892 011 (for use by medical professionals only).	

SECTION 2 Hazards Identification

2.1 Classification of the substance or mixture


Classification according to Regulation (EC) 1272/2008.

Not applicable. See section 16.

Classification according to Directive 1999/45/EC (See section 16)

N	Dangerous for the environment.	R51/53
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2.2 Label elements

	Dangerous for the environment.	
Risk phrase(s) (R), in full / Hazard statement(s) (H), in full.	R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.	
Safety phrase(s) (S), in full / Precautionary Statement(s) (P), in full.	S23: Do not breathe fog or spray mist. S24/25: Avoid contact with skin and eyes.	

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S35: This material and its container must be disposed of in a safe way.
 S36: Wear suitable protective clothing.
 S45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
 S61: Avoid release to the environment. Refer to special instructions/safety data sheets.
 Precautionary statements are not required.

USE AS DIRECTED. READ ALL INSTRUCTIONS BEFORE USE.

2.3 Other hazards

In the event of ingestion, aspiration into the lungs may result in chemically induced pneumonitis. May cause skin and eye irritation. No other significant adverse effects expected under normal conditions of handling and use. This product is dangerous for the environment.

SECTION 3 Composition/Information on Ingredients (See section 16)

3.2 Mixtures

% w/w	Common*/ Chemical Name (IUPAC)	CAS No.	EC No.	Index No.	REACH Registration No.	Directive 67/548/EEC classification	Regulation (EC) No 1272/2008 classification
0.12	Pyrethrum* / Pyrethrins.	8003-34-7	232-319-8	-	-	Xn: R20/21/22 N: R50/53	Acute Tox. 4 : H302 H312 H332 Aquatic Acute 1 : H400 Aquatic Chronic 1 : H410
≥0.1<1	Distillates (petroleum), hydrotreated light*	64742-47-8	265-149-8	649-422-00-2	-	Xn: R65	Asp. Tox. 1 : H304
≤1.0	Piperonyl butoxide*/ 2-(2-butoxyethoxy) ethyl 6-propylpiperonyl ether.	51-03-6	200-076-7	-	01-2119537431-46-0000	N: R50/53	Aquatic Acute 1 : H400 Aquatic Chronic 1 : H410

SECTION 4 First-Aid Measures

4.1 Description of first aid measure

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.

4.2 Most important symptoms and effects both acute and delayed (See section 2.3)

Emergency Equipment Suggested	Appropriate first-aid equipment should be provided.
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4.3 Indication of any immediate medical attention and special treatment needed

Note To Doctor	Further information on all Rentokil Initial formulations is lodged with the local National Poisons Information Service.
Antidote	No known antidote.

SECTION 5 Fire Fighting Measures

5.1 Extinguishing media

Suitable extinguishing media	Use carbon dioxide, alcohol resistant foam or dry powder extinguishers. Keep fire exposed containers cool by spraying with water.
Unsuitable extinguishing media	Do NOT use a water jet.
5.2 Special hazards arising from the substance or mixture	Burning may produce toxic combustion products.
5.3 Advice for fire fighters	Wear suitable personal protective equipment.

SECTION 6 Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures	Wear suitable personal protective equipment.
6.2 Environmental precautions	This product is classified as dangerous for the environment. Keep away from drains, surface and ground water and soil.
6.3 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.
6.4 Reference to other sections	Please also see sections 8 and 13 for further information.
Additional information	Clear spills immediately.

SECTION 7 Handling and Storage

7.1 Precautions for safe handling	Use only in accordance with instructions given.
7.2 Conditions for safe storage, including any incompatibilities	Keep away from open flames. Store in original container in a cool, dry, ventilated place, out of reach of children and away from food, drink and animal feeding stuffs.
7.3 Specific end use(s)	Insecticide.

SECTION 8 Exposure Controls/Personal Protection

8.1 Control Parameters

Exposure standard - Directive 98/24/EC (1st IOELV Directive)	Workplace Exposure Limit (WEL) long-term exposure (8 hour Time Weighted Average)	For Pyrethrins : 1 mg / m ³
	Workplace Exposure Limit (WEL) short-term exposure (15 minute reference period)	For Pyrethrins : 10 mg / m ³ .
	Substance name used in Directive EC/98/24 (1st IOELV Directive)	Not applicable.

8.2 Exposure Controls

Appropriate 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:
Individual Protection Measures	
Eye/face protection	Suitable eye protection such as goggles.
Hand protection	Suitable hand protection such as gloves.
Skin/body protection	Suitable skin/body protection such as overalls.
Respiratory protection	Suitable respiratory protection such as a full-face respirator
Environmental Exposure Controls	Use only in accordance with instructions given. Any spillage should be dealt with as a priority in order that contamination of watercourses is avoided.

SECTION 9 Physical and Chemical Properties

9.1 Information on basic physical and chemical properties			
Appearance, odour and physical state	Clear pale yellow liquid with a characteristic mineral oil type odour.		
pH	Not applicable.	Solubility in water	Negligible.
Density	0.841 at 20°C	Solubility in other solvents	Poorly soluble
Relative density	0.9 at 20°C	Explosive properties	explosion limit in air = 1-10 % (V)
Flash point	160°C	Combustibility	Not determined.
Flammability	Non-flammable.	Oxidising properties	None known.
Initial boiling Point and boiling range	Not determined.	Evaporation rate	Not determined.
Vapour Density	Isoalkane solvent: >1.	Partition coefficient: n-octanol/water	Not applicable.
Vapour pressure	Not determined.	Decomposition temperature	Not determined.
Melting point / Freezing point	Not applicable.	Auto-ignition temperature	Not determined.

9.2 Other Information			
Upper/lower flammability or explosive limits	Not determined.	Other safety information	Not applicable.
Viscosity	22 mm ² / S at 40°C / 104°F		

SECTION 10 Stability and Reactivity	
10.1 Reactivity	None expected under normal conditions of handling and use.
10.2 Chemical stability	This product is stable under normal conditions of handling and use.
10.3 Possibility of hazardous reactions	None expected under normal conditions of handling and use.
10.4 Conditions to avoid	Avoid extremes of temperature, e.g. below 0°C and above 40°C.
10.5 Incompatible materials	Avoid contact with oxidising agents.
10.6 Hazardous decomposition products	May give off toxic fumes if heated to decomposition.

SECTION 11 Toxicological Information (see also box 2)		
11.1 Information on toxicological effects		
Acute Toxicity	Oral	Pyrethrins: LD50 (rat) Oral : 1030-2370 mg/kg.
	Inhalation	For Pyrethrins: LD50 (4h) (rat) Inhalation: 3.4 mg / L
	Dermal	Pyrethrins: LD50 (rat) Dermal :>2000 mg/kg.
Corrosivity/ Irritation	Skin	May be irritating to skin.
	Eyes	May be irritating to eyes.
	Respiratory tract	May be irritating to respiratory tract.
Sensitisation	Skin	Contains no known skin sensitisers.
	Respiratory	Contains no known respiratory sensitisers.
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 Toxicity	Fertility	Product does not contain any components known to have effects on fertility.
	Developmental	Product does not contain any components known to be toxic to the reproductive system.
Other data	None known.	

SECTION 12 Ecological Information

12.1 Toxicity

General information	This product is classified as 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	Pyrethrins: LC50: (Flowthrough Bluegill Sunfish) : 10 µg / L (96 Hr) and Pyrethrins: LC50: (Flowthrough Daphnia): 12 µg / L (48Hr)
12.2 Persistence and degradability	Product is expected to be readily biodegradable.
12.3 Bioaccumulative potential	The product has the potential to bioaccumulate
12.4 Mobility in soil	Liquid under most environmental conditions. Floats on water. It enters soil, it will absorb to soil particles and will not be mobile.
12.5 Results of PBT and vPvB assessment	Does not meet requirements for assessment.
12.6 Other Adverse Effects	None.

SECTION 13 Disposal Considerations

13.1 Waste treatment methods	Disposal of the container must be in accordance with Local, State or National Requirements.	
Product/packaging disposal	Under normal circumstances, waste product / empty containers will be disposed of by Rentokil Initial.	
Classification (Council Directive 91/689/EC, Commission Decision 2000/532/EC (amended) Commission Decision 2001/118/EC))	Hazard Code: H14 - by H14: Ecotoxic.	
	Substances making the waste hazardous:	Concentrations (%):
	Pyrethrum* / Pyrethrins.	0.12
	Piperonyl butoxide*/ 2-(2-butoxyethoxy) ethyl 6- propylpiperonyl ether.	≤1.0
Note for Disposal	The best means of disposal of any product is through proper use. Disposal must be in accordance with Local, State or National Requirements.	

SECTION 14 Transport Information (International unless otherwise indicated)

ADR 2011 (International Road) / IMDG 2010 (Sea)

14.1 UN number	3082	RIS Code	25 L. PSP 19.
14.2 UN Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID N.O.S. (Contains Pyrethrins)		
14.3 Transport hazard class(es)	9		
ADR HIN	90		
UK Hazchem EAC	2X		
IMDG EMS	F-A, S-F		
14.4 Packing Group	III	Labels	

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Transport Category	3	
14.5 Environmental hazards	Yes	
Marine pollutant	Yes	
Additional precautions	Not applicable.	
14.6 Special precautions for user	Not applicable.	
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable.	
Limited Quantity Exemptions	Maximum quantity per inner receptacle is 5 litres. Maximum quantity per outer package is 30 kg. Combination packs only.	
Note for Transport	Local, State or National requirements may apply to the carriage of this product.	



SECTION 15 Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Authorisations and/or restrictions on use	Information to be made available according to ECHA review programme.
Other EU regulations	This safety data sheet was prepared in accordance with EC Directive 1907/2006 (as amended). 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.
15.2 Chemical safety assessment	Information to be made available according to ECHA review programme.

SECTION 16 Other Information

Revisions	Changes have been made to the content of boxes 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, compared with issue 6.
Abbreviations and acronyms	<p>Typical standard abbreviations and acronyms used in Rentokil Initial Safety Data Sheets are as follows:</p> <p>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 - European Standards for Personal Protective Equipment EWC - European Waste Catalogue Code IMDG 2010 - International Maritime Dangerous Goods (IMDG) Code IUPAC - International Union of Pure and Applied Chemistry LD₅₀ - Median lethal dose LC₅₀ - Lethal concentration 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</p> <p>Typical Directives and Regulations referred to Rentokil Initial Safety Data Sheets are as follows:</p> <p>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 2000/532/EC with regards to List of wastes Directive 67/548/EEC - Dangerous Substances Directive Directive 76/768/EC (as amended) - The Cosmetics Directive Directive 89/686/EEC - The Personal Protective Equipment (PPE) Directive Directive 91/689/EC - Directive on Hazardous waste Directive 98/24/EC (1st IOELV Directive) - Chemical Agents Directive 98/24/EC Protection of the Health and Safety of Workers from the Risks from Chemical Agents IOELV Directive: Indicative Occupational Exposure Limit Values Regulation (EC) No 1907/2006 - REACH (Registration, Evaluation, Authorisation and restriction of Chemicals) Regulation (EC) No 453/2010-amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) Directive 1999/45/EC - Dangerous Preparations Directive Directive 2004/37/EC - Carcinogens and Mutagens Directive Regulation (EC) No. 648/2004 - Detergents Regulation Regulation (EC) No 1272/2008 - Classification, Labelling and Packaging</p>

Key literature references and sources for data	For details of the data and information sources used, please contact Rentokil Initial using the details in Section 1.
Classification and used classification procedure for mixtures labelled to Directive 1999/45/EC according to Regulation (EC) No 1272/2008	Not currently classified to Regulation (EC) No. 1272/2008 until 31/05/2015.
Risk phrase/Hazard statement text (From section 3 - These refer to the ingredients only. See section 2 for the product risk phrases)	R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R20/21/22: Harmful by inhalation, in contact with skin and if swallowed. R65: Harmful: may cause lung damage if swallowed. H304: May be fatal if swallowed and enters airways. H302: Harmful if swallowed. H312: Harmful in contact with skin. H332: Harmful if inhaled. H400: Very toxic to aquatic life. H410: Very toxic to aquatic life with long lasting effects.
Training advice	Always read the label and product information before use. Ensure you have received adequate training and or instructions before use.
Further Information	A UN approved, 25 litre steel cylindrical drum.

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

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