

Safety Data Sheet

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REVISION (see box 16)

Issue : 5

04 : 04 : 2013

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

1.1 Product identifier	Woodworm Fluid B	-
1.2 Relevant identified uses of the substance or mixture and uses advised against	A wood preservative for use by professional operators. This product is a colourless liquid with a mild 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)

Xn	Harmful	R65 R66
N	Dangerous for the environment.	R50/53

2.2 Label elements

		Harmful Dangerous for the environment.
Risk phrase(s) (R), in full / Hazard statement(s) (H), in full.		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.
Safety phrase(s) (S), in full / Precautionary Statement(s) (P), in full.	S23: Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer). S35: This material and its container must be disposed of in a safe way. S51: Use only in well-ventilated areas. S61: Avoid release to the environment. Refer to special instructions/safety data sheets. S62: If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

Contains permethrin. May produce an allergic reaction.

2.3 Other hazards

If swallowed, this product may cause lung damage. Repeated exposure to skin may cause an allergic reaction, dryness and cracking. This product is very toxic to the aquatic environment. Keep away from drains, surface and ground water, and soil.

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
0.25	Permethrin*/ m-phenoxybenzyl 3-(2,2-dichlorovinyl)-2,2-dimethyl-cyclopropanecarboxylate (cis:trans ratio 25:75)	52645-53-1	258-067-9	613-058-00-2	-	Xn: R20/22 R43 N: R50/53	Acute Tox. 4 : H302 H332 Skin Sens. 1 : H317 Aquatic Acute 1 : H400 Aquatic Chronic 1 : H410
>25.0 ≤50.0	Isoalkanes, C11-C15	90622-58-5	292-460-6	-	-	Xn: R65 Xi: R66	
>25.0 ≤50.0	Isoalkanes, C9-C12	90622-57-4	292-459-0	-	-	Xn: R65 Xi: R66 R53	

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 specific antidote known. Treatment is symptomatic.

SECTION 5 Fire Fighting Measures

5.1 Extinguishing media	
Suitable extinguishing media	Use carbon dioxide, foam, water-fog, or dry powder extinguishers.
Unsuitable extinguishing media	Do not use water jet as this may spread the fire.
5.2 Special hazards arising from the substance or mixture	None, other than ordinary products of combustion.
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	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.
7.3 Specific end use(s)	Wood preservative.

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: Isoalkane solvent in 1200 mg/m ³ using the Reciprocal Calculation Method.
	Workplace Exposure Limit (WEL) short-term exposure (15 minute reference period)	Not applicable.
	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 protection such as coveralls.
Respiratory protection	Avoid excessive inhalation of concentrated vapours.
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	A colourless liquid with a characteristic odour.		
pH	Not determined.	Solubility in water	Immiscible
Density	0.74 g/cm ³ at 20°C	Solubility in other solvents	Not determined.
Relative density	Not determined.	Explosive properties	-
Flash point	-	Combustibility	Combustible.
Flammability	Not determined.	Oxidising properties	No known oxidising properties.
Initial boiling Point and boiling range	Isoalkane solvent: 175-213°C.	Evaporation rate	Isoalkane solvent: 0.040 (n-butyl acetate = 1).
Vapour Density	Isoalkane solvent: >1.	Partition coefficient: n-octanol/water	Not determined.
Vapour pressure	Isoalkane solvent: 0.05 kPa at 20°C.	Decomposition temperature	Not determined.
Melting point / Freezing point	Not determined.	Auto-ignition temperature	Not determined.

9.2 Other Information

Upper/lower flammability or explosive limits	Isoalkane solvent: Lower explosive limit in air: 0.6% v/v. Upper explosive limit in air: 7.0% v/v.	Other safety information	None known.
Viscosity	Isoalkane solvent: 1.60 mm ² /s at 25°C.		

SECTION 10 Stability and Reactivity

10.1 Reactivity	This product is stable 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 strong oxidising agents.
10.6 Hazardous decomposition products	None, other than ordinary products of combustion.

SECTION 11 Toxicological Information (see also box 2)

11.1 Information on toxicological effects

Acute Toxicity	Oral	For permethrin LD ₅₀ (rat) > 2000 mg/kg.
	Inhalation	For permethrin: LD50 (rat): >4.638 mg/l air
	Dermal	For permethrin LD ₅₀ (rat) > 2000 mg/kg.
Corrosivity/ Irritation	Skin	Prolonged contact may cause dryness of the skin.
	Eyes	May be irritating to eyes.
	Respiratory tract	May be irritating to respiratory tract.
Sensitisation	Skin	Contains less than 1% skin sensitisers in the form of permethrin.

	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 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: Fish (<i>Poecilia reticulata</i>) LC ₅₀ (96 h) 0.0089 mg/L Fish (<i>Cyprinus carpio</i>) LC ₅₀ (96 h) 0.145 mg/L Daphnia (<i>Daphnia magna</i>) EC ₅₀ (24 h) 0.020 mg/L Algae (<i>Scenedesmus subspicatus</i>) EC ₅₀ (72 h) 0.022 mg/L. Other (<i>Lampito mauritii</i>) LC ₅₀ >1200 mg/L Toxic to bees.
12.2 Persistence and degradability	Permethrin: DT50 > 1 year at pH 4, 25°C. Isoalkane solvent is expected to be readily biodegradable and is expected to degrade rapidly in air.
12.3 Bioaccumulative potential	This product is not expected to bioaccumulate.
12.4 Mobility in soil	Permethrin is strongly adsorbed to soil particles with no risk of leaching.
12.5 Results of PBT and vPvB assessment	Does not meet requirements for assessment.
12.6 Other Adverse Effects	Isoalkane solvent is classified as a Volatile Organic Compound according to Directive 99/13/EC.

SECTION 13 Disposal Considerations

13.1 Waste treatment methods	All pesticide waste should be disposed of using EWC: 20 01 19. If plastic or metal container is empty and triple rinsed, it can be disposed of as non-hazardous controlled waste.	
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 - Ecotoxic. H5 - Harmful.	
	Substances making the waste hazardous:	Concentrations (%):
	Permethrin*/ m-phenoxybenzyl 3-(2,2-dichlorovinyl)-2,2-dimethyl-cyclopropanecarboxylate (cis:trans ratio 25:75)	0.25
	Isoalkanes, C9-C12	>25.0 ≤50.0
	Isoalkanes, C11-C15	>25.0 ≤50.0
Note for Disposal	The best means of disposal of any product is through proper use according to the label. 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	UN3082	RIS Code	-
14.2 UN Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Contains permethrin)		
14.3 Transport hazard class(es)	9		
ADR HIN	90		
UK Hazchem EAC	•3Z		
IMDG EMS	F-A, S-F		
14.4 Packing Group	III	Labels 	
Transport Category	3		
14.5 Environmental hazards	Yes		
Marine pollutant	Yes		
Additional precautions	Not applicable.		
14.6 Special precautions for user	SP 274, 335, 601		
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. 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 4.
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 Directive 1907/2006 - REACH (Registration, Evaluation, Authorisation and restriction of Chemicals) 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)	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. R53: 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. H302: Harmful if swallowed. H317: May cause an allergic skin reaction. 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.

WOODWORM FLUID B

SDS No. 686 - EN - GB

Issue : 5

04 : 04 : 2013

Page 8 of 8

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

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