


Safety Data Sheet

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REVISION (see box 16)

Issue: 05 18:11:2010

1 IDENTIFICATION OF THE MIXTURE AND COMPANY		
Product identifier	Control Fluid SB	HSE 6018
Relevant identified uses of the mixture and uses advised against	A clear, colourless liquid wood preservative with no perceptible odour. Applied by means of cold fogging, spraying, dipping, injection or brushing in roof voids, behind wall panelling, wall cavities and similar confined spaces with limited access. For professional use only in the control of wood rotting fungi and wood destroying insects.	
Details of the supplier of the safety data sheet	Rentokil Initial UK Limited, Property Care, Garland Road, East Grinstead, West Sussex RH19 1DY Tel: +44 (0) 1342 332 622 Emergency line: +44 (0)1342 833 022 E-mail: sds@rentokil.com	
National contact	As above.	
Emergency telephone number	0844 892 011 (for use by medical professionals only).	

2 HAZARDS IDENTIFICATION		
Classification according to Regulation (EC) No 1272/2008 (See section 16)		
GHS-08	Danger	Repr1B; H360FD
Classification according to Directive 1999/45/EC (See section 16)		
T	Toxic	Repr. Cat. 2; R60-61
Label elements		
	Danger	
Hazard Statement(s) (H), in full.	H360FD:	May damage fertility or the unborn child.
Precautionary Statement(s) (P), in full.	P201	Obtain special instructions before use
	P202	Do not handle until all safety precautions have been read and understood
	P281	Use personal protective equipment as required.
	P308+ P313	If exposed or concerned get medical advice/attention
	P405	Store locked up
	P501	Dispose of contents/container in a suitable incineration plant or landfill observing local authority regulations.
To avoid risks to man and the environment, comply with the instructions for use. Contains Boric Acid 4.91% w/w and Disodium Tetraborate 6.79 % w/w		
Other hazards		
Ingestion of large quantities may cause irritation to the digestive system, nausea, vomiting and diarrhoea (which may become bloody), leading to unconsciousness and convulsions. Damage to the liver and kidneys may occur. Animal ingestion studies in several species, at high doses, indicate that boric acid and sodium tetraborate cause reproductive and developmental effects. A human study of occupational exposure to borate dust showed no adverse effect on reproduction. No other significant adverse effects expected under normal conditions of handling and use.		

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3 COMPOSITION/INFORMATION ON INGREDIENTS (See section 16.)							
% w/w	Common*/ Chemical Name (IUPAC)	CAS No.	EC No.	Index No.	Regulation (EC) No 1907/2006 (REACH) Registration No.	Directive 67/548/EEC classification	Regulation (EC) No 1272/2008 classification
4.910	Boric Acid	10043-35-3	233-139-2	005-007-00-2	N/A	T Repr. Cat 2. R60-61	GHS08 Repr. 1B, H360FD
6.790	Disodium Tetraborate	1303-96-4	215-540-4	005-011-01-1	N/A	T Repr. Cat 2. R60-61	GHS08 Repr. 1B, H360FD
>2.500 ≤10.000	Glycerol* / 1,2,3- propanetriol	56-81-5	200-289-5	Not listed	Not available	Not classified. Substance with a Community Workplace Exposure Limit (refer to Section 8).	Not classified. Substance with a Community Workplace Exposure Limit (refer to Section 8).

4 FIRST-AID MEASURES	
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.
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.

5 FIRE FIGHTING MEASURES	
Suitable extinguishing media	Use carbon dioxide, foam, water, or dry powder extinguishers.
Unsuitable extinguishing media	Not specified.
Special hazards arising from the mixture	Product may decompose in a fire to liberate toxic fumes of boric oxide.
Advice for fire-fighters	Wear suitable personal protective equipment conforming to EN469.

6 ACCIDENTAL RELEASE MEASURES	
Personal precautions, protective equipment and emergency procedures	Wear suitable personal protective equipment.
Environmental Precautions	Keep away from drains, surface and ground water, and soil.
Methods and material for containment and cleaning up	Collect up spilt material and transfer to a suitable container for re-use or subsequent disposal.
Reference to other sections	Please also see sections 8 and 13 for further information.
Additional information	Clear spills immediately.

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7 HANDLING AND STORAGE	
Precautions for safe handling	No specific handling requirements.
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.
Specific end use(s)	Wood preservative.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION		
Exposure standard - Directive 98/24/EC (1st IOELV Directive)	Workplace Exposure Limit (WEL) long-term exposure (8 hour Time Weighted Average).	For glycerol, mist is 10 mg/m ³
	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.
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:	
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	Suitable respiratory protection such as that recommended in HSE Guidance Booklet HS (G) 53: "Respiratory Protective Equipment – A Practical Guide for Users."	
Environmental Exposure Controls	Use only in accordance with instructions given. An ecological hazard assessment indicates no specific restrictions on environmental release.	

9 PHYSICAL AND CHEMICAL PROPERTIES			
Appearance and odour/odour threshold	A clear, colourless liquid with no perceptible odour.		
pH	7.0 at 20°C	Solubility in water	Miscible
Density	1.1 g/cm ³ at 20°C	Solubility in other solvents	Immiscible.
Specific gravity	Not determined	Explosive properties	Contains no explosive components.
Flash point	Not applicable	Combustibility	Non-combustible
Flammability	Non flammable.	Oxidising properties	Contains no oxidising components.
Boiling point/range	100°C	Evaporation rate	Not applicable.
Vapour density	Not applicable.	Partition coefficient: n-octanol/water	Not applicable.
Vapour pressure	Not applicable.	Decomposition temperature	Not determined.
Melting point/freezing point	Not determined	Auto-ignition temperature	Not determined
Upper/lower flammability or explosive limits	Not applicable.	Other safety information	None.
Viscosity	Not applicable.		

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10 STABILITY AND REACTIVITY	
Reactivity	This product is stable under normal conditions of handling and use.
Chemical stability	Avoid extremes of temperature, e.g. below 0°C and above 40°C.
Possibility of hazardous reactions	None expected under normal conditions of handling and use.
Conditions to avoid	Avoid extremes of temperature, e.g. below 0°C and above 40°C.
Incompatible materials	None known.
Hazardous decomposition products	Product may decompose in a fire to liberate toxic fumes of boric oxide.

11 TOXICOLOGICAL INFORMATION (SEE ALSO BOX 2)		
Acute Toxicity	Oral	Ingestion of large quantities may cause irritation to the digestive system, nausea, vomiting and diarrhoea (which may become bloody), leading to unconsciousness and convulsions. Damage to the liver and kidneys may occur. For boric acid: LD ₅₀ in rats 3,500 to 4,100 mg/kg body weight. For disodium tetraborate: LD ₅₀ in rats 4,500 to 5,000 mg/kg body weight.
	Inhalation	Low inhalation toxicity. For boric acid: LC ₅₀ in rats >2.0 g/m ³ For disodium tetraborate: LC ₅₀ in rats >2.0 g/m ³
	Dermal	For boric acid: LD ₅₀ in rabbits >2000 mg/kg of body weight. For disodium tetraborate: LD ₅₀ in rabbits >10,000 mg/kg of body weight. Both are poorly absorbed through intact skin.
Corrosivity/ Irritation	Skin	Not irritating to skin
	Eyes	Not irritating to eyes
	Respiratory tract	This route of exposure is not anticipated.
Sensitisation	Skin	Not sensitising to skin
	Respiratory	This route of exposure is not anticipated.
Repeat-Dose Toxicity	Product does not contain any components known to have any effects relating to repeated-dose toxicity.	
Mutagenicity	No mutagenic activity was observed for boric acid in a battery of short-term mutagenicity assays.	
Carcinogenicity	For boric acid: no evidence of carcinogenicity in mice.	
Reproductive Toxicity	Fertility	For boric acid: Animal feeding studies in rat, mouse and dog, at high doses have demonstrated effects on fertility and testes.
	Development	For boric acid: Studies in rat, mouse and rabbit demonstrate developmental effects on the foetus including foetal weight loss and minor skeletal variations. The lowest NOAEL is 9.6mg B/kg in rats based on developmental effects. The doses administered were many times in excess of those humans would normally be exposed to.
Other Information	For boric acid: Human epidemiological studies show no increase in pulmonary disease in occupation populations with chronic exposures to boric acid and sodium borate dust. Human epidemiological studies indicate no effect on fertility in occupational populations with chronic exposures to borate dust and indicate no effect to a general population with high exposures to borates in the environment	

12 ECOLOGICAL INFORMATION	
General Information	This product does not contain any substances that are classified as dangerous to the environment. Controlled release of this product is not expected to cause environmental contamination. Use only in accordance with instructions given.
Ecotoxicity Data	For sodium tetraborate EC ₁₀ (Green algae <i>Scenedesmus subspicatus</i>)(96h) : 24 mg B/L LC ₅₀ (Sea water Dab <i>Limanda limanda</i>)(96h) : 74 mg B/L For boric acid: LC ₅₀ (Daphnids <i>Daphnia magna</i> Straus) (48h) : 133 mg B/L LC ₅₀ (Fresh water rainbow trout <i>Oncorhynchus mykiss</i> , embryo-larval stage) (24d) : 150 mg B/L LC ₅₀ (Fresh water rainbow trout <i>Oncorhynchus mykiss</i> , embryo-larval stage) (32d) : 100 mg B/L LC ₅₀ (Fresh water goldfish <i>Carassius auratus</i> , embryo-larval stage)(7d) : 46 mg B/L LC ₅₀ (Fresh water goldfish <i>Carassius auratus</i> , embryo-larval stage)(3d) : 178 mg B/L Boron is an essential micronutrient for healthy growth of plants. It can be harmful to boron sensitive plants in higher quantities. Care should be taken to minimise the amount of borate product released to the environment.
Persistence and Degradability	Boron is naturally occurring and ubiquitous in the environment. Boric acid decomposes in the environment to natural borate.
Bioaccumulative Potential	For boric acid: Octanol/ water partition coefficient Log P _{ow} -0.7570 at 25°C
Mobility	Boric acid and disodium tetraborate are soluble in water and leachable through normal soil.
Results of PBT and vPvB assessment	Does not meet the requirements for assessment.
Other Adverse Effects	None known.

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13 DISPOSAL CONSIDERATIONS						
Waste treatment methods	All pesticide waste should be disposed of using EWC code EWC: 20 01 19.					
Product/packaging disposal	This product must be disposed of as hazardous waste. 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: H10 Toxic for reproduction.					
	<table border="1"> <thead> <tr> <th><u>Components making the waste hazardous</u></th> <th><u>Concentrations (%):</u></th> </tr> </thead> <tbody> <tr> <td>Contains Boric Acid</td> <td>4.91</td> </tr> <tr> <td>Disodium Tetraborate</td> <td>6.79</td> </tr> </tbody> </table>	<u>Components making the waste hazardous</u>	<u>Concentrations (%):</u>	Contains Boric Acid	4.91	Disodium Tetraborate
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Contains Boric Acid	4.91					
Disodium Tetraborate	6.79					
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.					

14 TRANSPORT INFORMATION (INTERNATIONAL UNLESS OTHERWISE INDICATED)				
UN No.	Not applicable.			RIS Code
Transport Category	Not applicable.	UK Hazchem EAC	Not applicable.	Not applicable.
ADR 2011 (International Road)	Class Not applicable.	ADR HIN	Not applicable.	Labels
Proper Shipping Name	Not applicable .			Not applicable.
Limited Quantity Exemptions	LQ code: Not applicable.			
Special provisions	Not applicable.	Packing Group	Not applicable.	
IMDG 2010 (Sea)	Class Not applicable.	IMDG EMS	Not applicable.	
Proper Shipping Name	Not applicable.			
Limited Quantity Exemptions	LQ code: Not applicable.			
Special provisions	Not applicable.	Packing Group	Not applicable.	
Note for Transport	Local, State or National requirements may apply to the carriage of this product.			

15 REGULATORY INFORMATION	
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.
Chemical safety assessment	Information to be made available according to ECHA review programme.

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 04.																																																												
Abbreviations and acronyms	<p>Typical standard abbreviations and acronyms used in Rentokil Initial Safety Data Sheets are as follows:</p> <table border="0"> <tr> <td>ADR 2011</td> <td>International Carriage of Dangerous Goods by Road (ADR)</td> </tr> <tr> <td>ADR HIN</td> <td>ADR Hazard Identification Number (HIN)</td> </tr> <tr> <td>Annex I DNEL or PNEC</td> <td>Derived No Effect Level / Predicted No Effect Concentration</td> </tr> <tr> <td>CAS No</td> <td>Chemicals Abstract Service Registry Number</td> </tr> <tr> <td>COSHH assessments.</td> <td>Control of substances hazardous to health</td> </tr> <tr> <td>ECHA</td> <td>European Chemicals Agency</td> </tr> <tr> <td>EC No</td> <td>European Commission number</td> </tr> <tr> <td>EN469</td> <td>European standard for Personal Protective Equipment used for fire fighting.</td> </tr> <tr> <td>EN standards for PPE</td> <td>European Standards for Personal Protective Equipment</td> </tr> <tr> <td>EWC</td> <td>European Waste Catalogue Code</td> </tr> <tr> <td>IMDG 2010</td> <td>International Maritime Dangerous Goods (IMDG) Code</td> </tr> <tr> <td>IUPAC</td> <td>International Union of Pure and Applied Chemistry</td> </tr> <tr> <td>LD₅₀</td> <td>Median lethal dose</td> </tr> <tr> <td>LC₅₀</td> <td>Lethal concentration 50</td> </tr> <tr> <td>REACH</td> <td>Registration, Evaluation, Authorisation and restriction of Chemicals</td> </tr> <tr> <td>RIS Code</td> <td>Internal manufacturing code number</td> </tr> <tr> <td>WEL</td> <td>Workplace Exposure Limit</td> </tr> <tr> <td>UK Hazchem EAC</td> <td>UK Hazchem Emergency Action Code</td> </tr> </table> <p>Typical Directive and Regulations referred to Rentokil Initial Safety Data Sheets are as follows:</p> <table border="0"> <tr> <td>Commission Decision 95/320/EC</td> <td>Scientific Committee for Occupational Exposure Limits to Chemical Agents</td> </tr> <tr> <td>Commission Decision 2000/532/EC</td> <td>List of wastes</td> </tr> <tr> <td>Commission Decision 2001/118/EC</td> <td>Amendment to 200/532/EC with regards to List of wastes</td> </tr> <tr> <td>Directive 67/548/EEC</td> <td>Dangerous Substances Directive</td> </tr> <tr> <td>Directive 89/686/EEC</td> <td>The Personal Protective Equipment (PPE) Directive</td> </tr> <tr> <td>Directive 91/689/EC</td> <td>Directive on Hazardous waste</td> </tr> <tr> <td>Directive 98/24/EC (1st IOELV Directive)</td> <td>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.</td> </tr> <tr> <td>Directive 1907/2006.</td> <td>REACH (Registration, Evaluation, Authorisation and restriction of Chemicals</td> </tr> <tr> <td>Directive 1999/45/EC</td> <td>Dangerous Preparations Directive</td> </tr> <tr> <td>Directive 2004/37/EC</td> <td>Carcinogens and Mutagens Directive</td> </tr> <tr> <td>Regulation (EC) No. 648/2004</td> <td>Detergents Regulation</td> </tr> <tr> <td>Regulation (EC) No 1272/2008</td> <td>Classification, Labelling and Packaging</td> </tr> </table>	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	LD ₅₀	Median lethal dose	LC ₅₀	Lethal concentration 50	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	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 200/532/EC with regards to List of wastes	Directive 67/548/EEC	Dangerous Substances 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
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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	Annex VII of Regulation (EC) No 1272/2008.																																																												
Risk/Hazard phrase text (From box 3 - These refer to the ingredients only. See box 2 for the product risk phrases)	R60 : May impair fertility. R61 : May cause harm to the unborn child. H360FD : May damage fertility or the unborn child.																																																												
Training advice	Use biocides safely. Always read the label and product information before use. Ensure you have received adequate training and or instructions before use.																																																												
Further information	Supplied in 5L plastic jerry cans																																																												

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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 Limited 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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