

# Safety Data Sheet

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**REVISION (see box 16)**

Issue : 06 14 : 10 : 2008

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY		
<b>Product Name</b>	<b>CEDARWOOD PROTECTOR</b>	<b>HSE 4587</b>
<b>Description</b>	Solvent based wood preservative for professional and industrial use. Reddish brown, opaque liquid with a paint/varnish odour for the prevention of surface moulds and stains.	
<b>Company</b>	Rentokil Initial Supplies, Liverpool, L33 7SR. Product advice line: +44 (0)151 548 5050. Emergency line: +44 (0)1342 833 022 E-mail: <a href="mailto:sds@rentokil.com">sds@rentokil.com</a>	

2 HAZARD IDENTIFICATION			
<b>Classification (Supply – Use) : In compliance with EC Directive 1999/45.</b>			
<b>Flammable</b>	R10	Flammable.	
<b>X<sub>n</sub> Harmful</b>	R65	Harmful: may cause lung damage if swallowed.	
<b>X<sub>i</sub> Irritant</b>	R43	May cause sensitisation by skin contact.	
	R66	Repeated exposure may cause skin dryness or cracking.	
<b>N Dangerous for the environment</b>	R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.	
<b>Adverse Physical, Chemical, Significant Human Health and Environmental Effects (See also box 11):</b>			
Product is classified as flammable. Prolonged or repeated contact may cause eye and skin irritation, drying of the skin and dermatitis. Prolonged inhalation of mists may cause lung inflammation. No other significant adverse effects expected under normal conditions of handling and use.			

3 COMPOSITION / INFORMATION ON INGREDIENTS (SEE ALSO BOX 16)			
% w/w	Common*/Chemical Name, ELINCS/EINECS & CAS No. of Ingredients	EC 1999/45 Classification	
0.9	Dichlofluanid* / (N-(dichlorofluoromethylthio)-N', N'-dimethyl-N-(phenylsulphamide) EINECS : 214-118-7 CAS : 1085-98-9	X <sub>n</sub> : R20 X <sub>i</sub> : R36, R43 N : R50/53	
≤ 1.0	Amorphous silicon dioxide* EINECS : unknown CAS : 112945-52-5	Not classified. Substance with a Community Workplace Exposure Limit (refer to box 8).	
>50.0 ≤100.0	White spirit* / naphtha (petroleum) hydrodesulfurised heavy EINECS : 265-185-4 CAS : 64742-82-1	: R10 X <sub>n</sub> : R65 : R66	
≤1.0	Cobalt carboxylate* / 2-ethylhexanoic acid, cobalt salt EINECS : 237-015-9 CAS : 13586-82-8	N : R51/53 X <sub>n</sub> : R22 X <sub>i</sub> : R38, R43 N : R51/53	
≤1.0	De-aromatised kerosene EINECS : unknown CAS : unknown	X <sub>n</sub> : R65	
≤1.0	Methoxy propoxy propanol EINECS : unknown CAS : unknown	Not classified. Substance with a Community Workplace Exposure Limit (refer to box 8).	
>2.5 ≤10.0	Paraffin wax * EINECS : 232-315-6 CAS : 13586-82-8	Not classified. Substance with a Community Workplace Exposure Limit (refer to box 8).	
≤1.0	Manganese carboxylate* / 2-ethylhexanoic acid, manganese salt EINECS : 240-085-3 CAS : 15956-58-8	X <sub>n</sub> : R65 X <sub>i</sub> : R38	

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<b>4 FIRST-AID MEASURES (SEE ALSO “ADVERSE EFFECTS” IN BOX 2)</b>	
<b>Inhalation</b>	Remove patient to fresh air, keep warm and at rest. Apply supportive measures if necessary and seek medical attention.
<b>Eye Contact</b>	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.
<b>Skin Contact</b>	Remove and wash contaminated clothing immediately. Wash affected area thoroughly with soap and water. If the patient feels unwell seek medical advice.
<b>Ingestion (Swallowing)</b>	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.
<b>Emergency Equipment Suggested</b>	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”.
<b>Note To Doctor</b>	Further information on all Rentokil Initial formulations is lodged with the National Poisons Information Service in the UK.

<b>5 FIRE FIGHTING MEASURES</b>	
<b>Fire Extinguisher Type</b>	Use carbon dioxide, foam or dry powder extinguishers. Do NOT use a water jet.
<b>Special Fire-Fighting Procedures</b>	Wear suitable personal protective equipment. Can use water spray to cool surrounding areas / containers.
<b>Special Exposure Hazards</b>	May accumulate static charge, which may act as an ignition source. Combustion will produce oxides of carbon.

<b>6 ACCIDENTAL RELEASE MEASURES</b>	
<b>Personal Precautions (See also box 8)</b>	Wear suitable personal protective equipment.
<b>Environmental Precautions</b>	This product is classified as dangerous for the environment. Keep away from drains, surface and ground water, and soil.
<b>Clean-up Procedure (See also box 13)</b>	Absorb spill with an inert material such as sand, earth or sawdust. Transfer to a suitable container for subsequent disposal.

<b>7 HANDLING AND STORAGE (SEE ALSO BOX 8)</b>	
<b>Handling Storage</b>	Ensure all equipment is coated to avoid static electricity. Keep away from heat, sparks and open flame. 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. Store away from oxidisers, heat, light and sources of ignition. Ground container and transfer equipment to eliminate static electric sparks. Store only in containers resistant to hydrocarbons.

<b>8 EXPOSURE CONTROLS/PERSONAL PROTECTION</b>	
<b>Exposure Standard - Directive EC/98/24 (1<sup>st</sup> IOELV Directive)</b>	Workplace Exposure Limit (WEL) for naphtha (petroleum) hydrosulfurised is 600 mg/m <sup>3</sup> long-term exposure (8 hour Time Weighted Average). WEL for silica, amorphous is 6 mg/m <sup>3</sup> long-term exposure (8 h TWA) and 2.4 mg/m <sup>3</sup> short-term exposure (15 minute reference period). WEL for paraffin wax fume is 2 mg/m <sup>3</sup> long-term exposure (8 h TWA) and 6 mg/m <sup>3</sup> short-term exposure (15 minute reference period). WEL for de-aromatised kerosene is 1000 mg/m <sup>3</sup> long-term exposure (8 h TWA). WEL for manganese carboxylate is 0.5 mg/m <sup>3</sup> long-term exposure (8 h TWA). WEL for methoxy propoxy propanol is 308 mg/m <sup>3</sup> long-term exposure (8 h TWA). WEL for cobalt carboxylate is 0.1 mg/m <sup>3</sup> long-term exposure (8 h TWA).
<b>Engineering Controls</b>	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:
<b>Eye Protection</b>	Suitable eye protection such as goggles.
<b>Hand Protection</b>	Suitable hand protection such as gloves.
<b>Skin Protection</b>	Suitable skin protection such as coveralls.
<b>Breathing Protection</b>	Suitable respiratory protection such as self contained breathing apparatus.
<b>Environmental Exposure Controls</b>	Use only in accordance with instructions given.

<b>9 PHYSICAL AND CHEMICAL PROPERTIES</b>			
<b>Appearance and Odour</b>	Solvent based wood preservative for professional and industrial use. Reddish brown, opaque liquid with a paint/varnish odour for the prevention of surface moulds and stains.		
<b>pH</b>	Not determined.	<b>Solubility in Water</b>	Immiscible.
<b>Specific Gravity</b>	0.8 at 20°C	<b>Solubility in Other Solvents</b>	Soluble in organic solvents (white spirit).
<b>Flash Point</b>	44°C (closed cup)	<b>Explosive Properties</b>	Not determined.
<b>Flammability</b>	Flammable.	<b>Combustibility</b>	Not determined.
<b>Boiling Point/Range</b>	150 - 200°C	<b>Oxidising Properties</b>	Not determined.
<b>Vapour Density</b>	Not determined.	<b>Evaporation Rate</b>	Not determined.
<b>Vapour Pressure</b>	Not determined.	<b>Partition Coefficient</b>	Not applicable.
<b>Viscosity</b>	Not determined.	<b>Other Data</b>	None known.

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## 10 STABILITY AND REACTIVITY

<b>Conditions to avoid</b>	Avoid extremes of temperature, e.g. below 0°C and above 40°C, sparks, flames and direct sunlight.
<b>Materials to avoid</b>	Avoid contact with strong oxidising agents.
<b>Hazardous Breakdown Products</b>	Combustion will produce oxides of carbon.

## 11 TOXICOLOGICAL INFORMATION (SEE ALSO BOX 2)



<b>Acute Toxicity</b>	<b>Oral</b> <b>Inhalation</b>	For dichlofluanid: LD <sub>50</sub> (rat): >5000 mg/kg For dichlofluanid: Dusts and mist LC <sub>50</sub> (rat, male): 1338 mg/m <sup>3</sup> (4 h) Dusts and mist LC <sub>50</sub> (rat, female): 13381233 mg/m <sup>3</sup> (4 h)
<b>Corrosivity/Irritation</b>	<b>Dermal</b> <b>Skin</b> <b>Eyes</b> <b>Respiratory tract</b>	For dichlofluanid: LD <sub>50</sub> (rat): LD <sub>0</sub> (rat): >5000 mg/kg Prolonged or repeated contact may cause drying of the skin and possibly dermatitis. May cause moderate irritation. Prolonged inhalation of mists may cause lung inflammation.
<b>Sensitisation</b>	<b>Skin</b> <b>Respiratory</b>	May cause sensitisation by skin contact. Contains no known respiratory sensitisers.
<b>Repeat-Dose Toxicity</b>		For dichlofluanid: Sub chronic NOAEL oral Dog (90 days): 20 – 24 mg/kg/d Sub chronic NOAEL oral Dog (1 year): 2.5 mg/kg/d Repeated exposure may cause skin dryness and cracking.
<b>Mutagenicity</b>		Product does not contain any components known to have a mutagenic effect.
<b>Carcinogenicity</b>		Product does not contain any components known to have a carcinogenic effect.
<b>Reproductive Toxicity</b>	<b>Fertility</b> <b>Development</b>	Product does not contain any components known to have effects on fertility. Product does not contain any components known to be toxic to the reproductive system.
<b>Other Information</b>		No specific antidote known.

## 12 ECOLOGICAL INFORMATION

<b>General Information</b>	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.
<b>Ecotoxicity Data</b>	For dichlofluanid: Algae: <i>Scenedesmus subspicatus</i> (72h): Acute EC <sub>50</sub> : 10.8 mg/L Daphnia: <i>Daphnia magna</i> (48h): Acute EC <sub>50</sub> : 0.42 mg/L Chronic NOEC (24 days): 0.04 mg/L Fish: <i>Oncorhynchus mykiss</i> (96h) Acute EC <sub>50</sub> : 0.01 mg/L Chronic NOEC (24 days): 0.0045 mg/L
<b>Mobility</b>	Not determined.
<b>Persistence and Degradability</b>	For dichlofluanid (ISO): Aquatic half-life 0.8 days; pH 7 at 22°C. Inherent biodegradability.
<b>Bioaccumulative Potential</b>	Dichlofluanid: Log P <sub>ow</sub> : 3.5, BCF: 72, Potential: low
<b>Other Adverse Effects</b>	Dichlofluanid: Acute bacterial toxicity EC <sub>50</sub> (3h): 19 mg/L

## 13 DISPOSAL CONSIDERATIONS

<b>Disposal of Waste / Containers</b>	This product is dangerous for the environment. Do not discharge waste washings or waste product to sewers, drains or watercourses. Ensure this product is disposed of as hazardous waste, in accordance with the appropriate regulations.
<b>Classification</b> (Council Directive 91/689/EC, Commission Decision 2000/532/EC (amended) Commission Decision 2001/118/EC))	<b>Hazard Code:</b> H3B – Flammable, H5 – Harmful, H14 - Ecotoxic <b>Components making the waste hazardous</b> White spirit >50.0 ≤100 Alkyd resin >2.5 ≤10.0 De-aromatised kerosene ≤1.0 Dichlofluanid 0.999 Cobalt carboxylate ≤1.0 Naphtha (petroleum) >50.0 ≤100 Hydrodesulfurised heavy
<b>Note for Disposal</b>	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.

14 TRANSPORT INFORMATION (INTERNATIONAL UNLESS OTHERWISE INDICATED)				
UN No.	UN1300	Tremcard Reference No.	CEFIC TEC (R)- 30GF1-III	RIS Code
Transport Category	3	UK Hazchem EAC	3Y	PSC53
ADR 2007 (International Road)	Class 3	ADR HIN	30	Labels
Proper Shipping Name	TURPENTINE SUBSTITUTE			 
Limited Quantity Exemptions	Maximum quantity per inner receptacle is 5 litres. Maximum quantity per outer package is 30kg. Combination packs only.			
Special Requirements	Not required. Packing Group III			
IMDG 2006 (Sea)	Class 3	IMDG EMS	F-E, S-E	
Proper Shipping Name	TURPENTINE SUBSTITUTE			
Limited Quantity Exemptions	Maximum quantity per inner receptacle is 5 litres. Maximum quantity per outer package is 30kg. Combination packs only.			
Special Requirements	Marine pollutant. Packing Group III			
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))	
Safety Phrases	<p>S23 : Do not breathe spray.</p> <p>S24 : Avoid contact with skin.</p> <p>S35 : This material and its container must be disposed of in a safe way.</p> <p>S37 : Wear suitable gloves.</p> <p>S51 : Use only in well-ventilated areas.</p> <p>S61 : Avoid release into the environment. Refer to special instructions/safety data sheet.</p> <p>S62 : If swallowed, do not induce vomiting : seek medical advice immediately and show this container or label.</p>
Additional Label Phrases	Contains dichlofluanid. May produce an allergic reaction.
Legislation	<p>To avoid risks to man and the environment, comply with the instructions for use.</p> <p>Labelling is in accordance with UK regulations implementing the EC Directive 1999/45.</p> <p>Additional labelling requirements may be necessary in accordance with other National legislation. Outside the UK, the registration of this product may be necessary before use and any additional local requirements must be observed at all times.</p> <p>The information given on this Safety Data Sheet (SDS) <b>does not</b> constitute an assessment in accordance with Control of Substances Hazardous to Health (COSHH) Regulations 2002, in the UK.</p> <p>Other National measures or guidance should be followed where appropriate.</p>

16 Other Information and indication of revisions	
Packaging Information	Open top 25L metal pail.
Revisions	Changes have been made to the content of boxes 01, 02, 03, 8, 9, 11, 12, 13, 14 & 16 (as indicated by the thick lines on the left-hand side of the boxes) compared with issue 05.
Risk phrase text (From box 3 - These refer to the ingredients only. See box 2 for the product risk phrases)	<p>R10 : Flammable.</p> <p>R20 : Harmful by inhalation.</p> <p>R22 : Harmful if swallowed.</p> <p>R36 : Irritating to eyes.</p> <p>R38 : Irritating to skin.</p> <p>R43 : May cause sensitisation by skin contact.</p> <p>R50,53 : Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment</p> <p>R51,53 : Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment</p> <p>R65 : Harmful: may cause lung damage if swallowed.</p> <p>R66 : Repeated exposure may cause skin dryness or cracking.</p>

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

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