

Safety Data Sheet

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REVISION (see box 16)

Issue : 02 14 : 12 : 2009

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY		
Product Name	ECO-CLEAR SANITISER FLUID	
Description	A white, turbid liquid formulation of non-pathogenic bacterial cultures containing specialised strains used for breaking down scale and odours in washroom urinals. Used in a dispenser mechanism.	
Company	Rentokil Initial Supplies, Liverpool, L33 7SR. Product advice line: +44 (0)151 548 5050 Emergency line: +44 (0)1293 858 000 E-mail: sds@rentokil.com	
2 HAZARD IDENTIFICATION		
Classification (Supply – Use) : In compliance with EC Directive 1999/45.		
X_i Irritant	R41 R43 R52/53	Risk of serious damage to eyes. May cause sensitisation by skin contact. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Adverse Physical, Chemical, Significant Human Health and Environmental Effects (See also box 11):		
There is a risk of serious damage to eyes and the product may cause sensitisation by skin contact. The product is formulated using a range of micro-organisms specially selected from the natural environment and that are known to be non-pathogenic to humans, animals or plants. It is advised to cover open wounds when in use. 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
>10.0 ≤25.0	Sodium dodecylbenzenesulphonate EINECS : 246-680-4 CAS : 25155-30-0	X _n : R22 : R37/38 : R41
>10.0 ≤25.0	Butyl glycol EINECS : 203-905-0 CAS : 111-76-2	X _n : R20/21/22 : R37
>10.0 ≤25.0	Ethoxylated fatty alcohols EINECS : Not applicable CAS : 68439-45-2	X _n : R22 : R41
>2.5 ≤10.0	EDTA EINECS : 200-573-9 CAS : 64-02-8	X _n : R22 : R36
≤1.0	Neutroleum gamma perfume EINECS : Not applicable CAS : Not applicable	X _i : R10 : R36/38 : R43 : R65
≤0.1	1,2-Benzisothiazol-3(2H)-one EINECS : 220-120-9 CAS : 2634-33-5	N : R51,53 X _n : R22 : R38 : R41 : R43
≤0.1	Sodium hydroxide EINECS : 215-185-5 CAS : 1310-73-2	N : R50 C : R35

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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 ½ litre or 1 pint of water to drink. Seek medical attention.
Emergency Equipment Suggested	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”.
Note To Doctor	Further information on all Rentokil Initial formulations is lodged with the National Poisons Information Service in the UK.

5 FIRE FIGHTING MEASURES	
Fire Extinguisher Type	Use carbon dioxide, foam, water, or dry powder extinguishers.
Special Fire-Fighting Procedures	Wear suitable personal protective equipment.
Special Exposure Hazards	Oxides of carbon and nitrogen may be evolved.

6 ACCIDENTAL RELEASE MEASURES	
Personal Precautions (See also box 8)	Wear suitable personal protective equipment.
Environmental Precautions	Avoid excessive release to natural waters. The product is designed to digest complex fat matters, grease, oils, cellulose, proteins and starch through enzymatic metabolism in the drainage system.
Clean-up Procedure (See also box 13)	Absorb spill with an inert material such as sand, earth or sawdust. Transfer to a suitable container for subsequent disposal.

7 HANDLING AND STORAGE (SEE ALSO BOX 8)	
Handling	Wear suitable personal protective equipment.
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. Avoid extremes of temperature, e.g. below 0°C and above 40°C.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION	
Exposure Standard - Directive EC/98/24 (1st IOELV Directive)	Workplace Exposure Limit (WEL) for butyl glycol is 123 mg/m ³ long-term exposure (8 hour Time Weighted Average) and 246 mg/m ³ short-term exposure (15 minute reference period). Butyl glycol is referred to as 2-butoxyethanol in Directive EC/98/24 (1 st IOELV Directive).
Engineering Controls	Workplace Exposure Limit (WEL) for sodium hydroxide is 2 mg/m ³ short-term exposure (15 minute reference period). 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 Protection	Suitable eye protection such as goggles.
Hand Protection	Suitable hand protection such as gloves.
Skin Protection	Suitable skin protection such as coveralls.
Breathing Protection	Suitable respiratory protection such as self-contained breathing apparatus.
Environmental Exposure Controls	Use only in accordance with instructions given.

9 PHYSICAL AND CHEMICAL PROPERTIES			
Appearance and Odour	A white, turbid liquid with a mint/lemon aroma.		
pH	7-9	Solubility in Water	100% soluble.
Relative Density	Approx. 1 at 25°C	Solubility in Other Solvents	Not determined.
Flash Point	Not determined.	Explosive Properties	Predicted not to be explosive.
Flammability	Non-flammable.	Combustibility	Not determined.
Boiling Point/Range	100°C	Oxidising Properties	Not determined.
Vapour Density	Not determined.	Evaporation Rate	Not determined.
Vapour Pressure	Equivalent to water.	Partition Coefficient	Not applicable.
Viscosity	Not determined.	Other Data	None known.

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10 STABILITY AND REACTIVITY

Conditions to avoid	Avoid extremes of temperature, e.g. below 0°C and above 40°C.
Materials to avoid	Avoid contact with strong acids or alkali and strong oxidising agents.
Hazardous Breakdown Products	Oxides of carbon and nitrogen may be evolved.

11 TOXICOLOGICAL INFORMATION (SEE ALSO BOX 2)

Acute Toxicity	Oral	Not determined.
	Inhalation	Not determined.
	Dermal	Not determined.
Corrosivity/Irritation	Skin	Not determined.
	Eyes	Risk of serious damage to eyes.
	Respiratory tract	Not determined.
Sensitisation	Skin	May cause sensitisation by skin contact.
	Respiratory	Contains no known respiratory sensitisers.
Repeat-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.
	Development	Product does not contain any components known to be toxic to the reproductive system.
Other Information		The product is formulated using a range of micro-organisms specially selected from the natural environment and that are known to be non-pathogenic to humans, animals or plants. It is advised to cover open wounds when in use.

12 ECOLOGICAL INFORMATION

General Information	This product is classified as harmful 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 1,2-benzisothiazol-3(2H)-one: LC ₅₀ (96h) (trout): 1.6 mg/L LC ₅₀ (48h) (daphnia): 4.3 mg/L LC ₅₀ (72h) (algae): 0.07 mg/L
Mobility	No data on toxicity specifically to soil organisms, plants and terrestrial animals are available. This product has high water solubility and relatively low vapour pressure. Therefore it is likely to distribute predominantly to the aqueous environment.
Persistence and Degradability	The product is expected to biodegrade rapidly. However no information on anaerobic biodegradation is available. The surfactants contained in the preparation comply with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.
Bioaccumulative Potential	Not anticipated to bioaccumulate due to high water solubility and hence, biomagnification is not likely.
Other Adverse Effects	There is no ozone depletion, photochemical ozone creation or global warming potential. Adverse effects in the sewage treatment plant are not anticipated.

13 DISPOSAL CONSIDERATIONS

Disposal of Waste / Containers	This product is dangerous for the environment. Do not discharge to sewers, drains or watercourses. This product must be disposed of as hazardous waste. Empty containers may be disposed of as controlled waste in accordance with the appropriate regulations. 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: H4: Irritant, H5: Harmful Components making the waste hazardous														
	<table><thead><tr><th></th><th><u>Concentrations (%)</u>:</th></tr></thead><tbody><tr><td>Ethoxylated fatty alcohols</td><td>>10.0 ≤25.0</td></tr><tr><td>Sodium dodecylbenzenesulphonate</td><td>>10.0 ≤25.0</td></tr><tr><td>Butyl glycol</td><td>>10.0 ≤25.0</td></tr><tr><td>EDTA</td><td>>2.5 ≤10.0</td></tr><tr><td>Neutroleum gamma perfume</td><td>≤1.0</td></tr><tr><td>1,2-Benzisothiazol-3(2H)-one</td><td>≤0.1</td></tr></tbody></table>		<u>Concentrations (%)</u> :	Ethoxylated fatty alcohols	>10.0 ≤25.0	Sodium dodecylbenzenesulphonate	>10.0 ≤25.0	Butyl glycol	>10.0 ≤25.0	EDTA	>2.5 ≤10.0	Neutroleum gamma perfume	≤1.0	1,2-Benzisothiazol-3(2H)-one	≤0.1
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Note for Disposal	The best means of disposal of any product is through proper use according to the label. 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														

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14 TRANSPORT INFORMATION (INTERNATIONAL UNLESS OTHERWISE INDICATED)

UN No.	Not classified.			RIS Code
Transport Category	Not required.	UK Hazchem EAC	Not required.	PSE06
ADR 2009 (International Road) Proper Shipping Name	Class Not required.	ADR HIN	Not required.	Labels Not required.
Limited Quantity Exemptions	Not required.			
Special Requirements	Packing Group Not required.			
IMDG 2008 (Sea) Proper Shipping Name	Class Not required.	IMDG EMS	Not required.	
Limited Quantity Exemptions	Not required.			Not required.
Special Requirements	Packing Group Not required.			
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	S25: Avoid contact with eyes. S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S35: This material and its container must be disposed of in a safe way. S37/39: Wear suitable gloves and eye/face protection. S61: Avoid release to the environment. Refer to special instructions/safety data sheet.
Additional Label Phrases Legislation	Not required. Labelling is in accordance with UK regulations implementing the EC Directive 1999/45. 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. 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. Other National measures or guidance should be followed where appropriate.

16 Other Information and indication of revisions

Packaging Information	A 5 litre plastic jerrican with a screw top.
Revisions	Changes have been made to the content of boxes 01, 02, 03, 05, 06, 07, 08, 09, 10, 11, 12, 13, 14, 15 & 16 (as indicated by the thick lines on the left-hand side of the boxes) compared with issue 01.
Risk phrase text (From box 3 - These refer to the ingredients only. See box 2 for the product risk phrases)	R10 : Flammable. R20/21/22 : Harmful by inhalation, in contact with skin and if swallowed. R22 : Harmful if swallowed. R35 : Causes severe burns. R36 : Irritating to eyes. R36/38 : Irritating to eyes and skin. R37 : Irritating to respiratory system. R37/38 : Irritating to respiratory system and skin. R38 : Irritating to skin. R41 : Risk of serious damage to eyes. R43 : May cause sensitisation by skin contact. R50 : Very toxic to aquatic organisms. R51,53 : Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R65 : Harmful: may cause lung damage if swallowed.

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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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