

# Safety Data Sheet

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**REVISION (see box 16)**

Issue : 02 14 : 12 : 2009

| 1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY  |   |   |   |
|--|---|---|---|
| <b>Product Name</b>  | <b>ECO-CLEAR SANITISER FLUID</b>  |   |   |
| <b>Description</b>   | 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.  |   |   |
| <b>Company</b>   | Rentokil Initial Supplies, Liverpool, L33 7SR.<br>Product advice line: +44 (0)151 548 5050<br>Emergency line: +44 (0)1293 858 000<br>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>X<sub>i</sub> Irritant</b>  | R41   | Risk of serious damage to eyes.   |   |
|  | R43   | May cause sensitisation by skin contact.  |   |
|  | R52/53  | Harmful 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>   |   |   |   |
| There is a risk of serious damage to eyes and the product may cause sensitisation by skin contact.<br>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<br>CAS : 25155-30-0  | X <sub>n</sub> : R22<br>: R37/38<br>: R41                     |
| >10.0 ≤25.0  | Butyl glycol  | EINECS : 203-905-0<br>CAS : 111-76-2  | X <sub>n</sub> : R20/21/22<br>: R37                           |
| >10.0 ≤25.0  | Ethoxylated fatty alcohols  | EINECS : Not applicable<br>CAS : 68439-45-2   | X <sub>n</sub> : R22<br>: R41                                 |
| >2.5 ≤10.0   | EDTA  | EINECS : 200-573-9<br>CAS : 64-02-8   | X <sub>n</sub> : R22<br>: R36                                 |
| ≤1.0   | Neutroleum gamma perfume  | EINECS : Not applicable<br>CAS : Not applicable   | X <sub>i</sub> : R10<br>: R36/38<br>: R43<br>: R65            |
| ≤0.1   | 1,2-Benzisothiazol-3(2H)-one  | EINECS : 220-120-9<br>CAS : 2634-33-5   | N : R51,53<br>X <sub>n</sub> : R22<br>: R38<br>: R41<br>: R43 |
| ≤0.1   | Sodium hydroxide  | EINECS : 215-185-5<br>CAS : 1310-73-2   | N : R50<br>C : R35  |

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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, water, or dry powder extinguishers. |
| <b>Special Fire-Fighting Procedures</b> | Wear suitable personal protective equipment.                  |
| <b>Special Exposure Hazards</b>         | Oxides of carbon and nitrogen may be evolved.                 |

| <b>6 ACCIDENTAL RELEASE MEASURES</b>         |   |
|--|---|
| <b>Personal Precautions (See also box 8)</b> | Wear suitable personal protective equipment.  |
| <b>Environmental Precautions</b>             | 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. |
| <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</b>                                | Wear suitable personal protective equipment.   |
| <b>Storage</b>                                 | 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. |

| <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 butyl glycol is 123 mg/m <sup>3</sup> long-term exposure (8 hour Time Weighted Average) and 246 mg/m <sup>3</sup> short-term exposure (15 minute reference period). Butyl glycol is referred to as 2-butoxyethanol in Directive EC/98/24 (1 <sup>st</sup> IOELV Directive).                              |
| <b>Engineering Controls</b>  | Workplace Exposure Limit (WEL) for sodium hydroxide is 2 mg/m <sup>3</sup> short-term exposure (15 minute reference period).<br>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>               | A white, turbid liquid with a mint/lemon aroma. |                                     |                                |
| <b>pH</b>                                 | 7-9   | <b>Solubility in Water</b>          | 100% soluble.                  |
| <b>Relative Density</b>                   | Approx. 1 at 25°C                               | <b>Solubility in Other Solvents</b> | Not determined.                |
| <b>Flash Point</b>                        | Not determined.                                 | <b>Explosive Properties</b>         | Predicted not to be explosive. |
| <b>Flammability</b>                       | Non-flammable.                                  | <b>Combustibility</b>               | Not determined.                |
| <b>Boiling Point/Range</b>                | 100°C   | <b>Oxidising Properties</b>         | Not determined.                |
| <b>Vapour Density</b>                     | Not determined.                                 | <b>Evaporation Rate</b>             | Not determined.                |
| <b>Vapour Pressure</b>                    | Equivalent to water.                            | <b>Partition Coefficient</b>        | Not applicable.                |
| <b>Viscosity</b>                          | Not determined.                                 | <b>Other Data</b>                   | None known.                    |

### ECO-CLEAR SANITISER FLUID

## 10 STABILITY AND REACTIVITY

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

## 11 TOXICOLOGICAL INFORMATION (SEE ALSO BOX 2)

|                               |                       |  |
|-------------------------------|-----------------------|--|
| <b>Acute Toxicity</b>         | Oral                  | Not determined.  |
|                               | Inhalation            | Not determined.  |
|                               | Dermal                | Not determined.  |
| <b>Corrosivity/Irritation</b> | Skin                  | Not determined.  |
|                               | Eyes                  | Risk of serious damage to eyes.  |
|                               | Respiratory tract     | Not determined.  |
| <b>Sensitisation</b>          | Skin                  | May cause sensitisation by skin contact.   |
|                               | Respiratory           | Contains no known respiratory sensitisers.   |
| <b>Repeat-Dose Toxicity</b>   |                       | Product does not contain any components known to have any effects relating to repeated-dose toxicity.  |
| <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>  | Fertility Development | Product does not contain any components known to have effects on fertility.<br>Product does not contain any components known to be toxic to the reproductive system.   |
| <b>Other Information</b>      |                       | 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

|                                      |  |
|--------------------------------------|--|
| <b>General Information</b>           | 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.  |
| <b>Ecotoxicity Data</b>              | For 1,2-benzisothiazol-3(2H)-one:<br>LC <sub>50</sub> (96h) (trout): 1.6 mg/L<br>LC <sub>50</sub> (48h) (daphnia): 4.3 mg/L<br>LC <sub>50</sub> (72h) (algae): 0.07 mg/L   |
| <b>Mobility</b>                      | No data on toxicity specifically to soil organisms, plants and terrestrial animals are available.<br>This product has high water solubility and relatively low vapour pressure. Therefore it is likely to distribute predominantly to the aqueous environment.   |
| <b>Persistence and Degradability</b> | The product is expected to biodegrade rapidly. However no information on anaerobic biodegradation is available.<br>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. |
| <b>Bioaccumulative Potential</b>     | Not anticipated to bioaccumulate due to high water solubility and hence, biomagnification is not likely.   |
| <b>Other Adverse Effects</b>         | There is no ozone depletion, photochemical ozone creation or global warming potential.<br>Adverse effects in the sewage treatment plant are not anticipated.   |

## 13 DISPOSAL CONSIDERATIONS

|  |   |
|--|---|
| <b>Disposal of Waste / Containers</b>  | This product is dangerous for the environment. Do not discharge to sewers, drains or watercourses.<br>This product must be disposed of as hazardous waste. Empty containers may be disposed of as controlled waste in accordance with the appropriate regulations.<br>Under normal circumstances, waste product / empty containers will be disposed of by Rentokil Initial. |
| <b>Classification</b><br>(Council Directive 91/689/EC, Commission Decision 2000/532/EC (amended) Commission Decision 2001/118/EC)) | <u>Hazard Code:</u> H4: Irritant, H5: Harmful<br><u>Components making the waste hazardous</u><br>Ethoxylated fatty alcohols >10.0 ≤25.0<br>Sodium dodecylbenzenesulphonate >10.0 ≤25.0<br>Butyl glycol >10.0 ≤25.0<br>EDTA >2.5 ≤10.0<br>Neutroleum gamma perfume ≤1.0<br>1,2-Benzisothiazol-3(2H)-one ≤0.1   |
| <b>Note for Disposal</b>   | The best means of disposal of any product is through proper use according to the label.<br>For further advice about disposal in the UK, contact the local office of the Environment Agency (England and Wales) or Scottish Environment Protection Agency.<br>Local rate from anywhere in the UK: +44(0) 870 850 6506  |

### ECO-CLEAR SANITISER FLUID

| 14 TRANSPORT INFORMATION (INTERNATIONAL UNLESS OTHERWISE INDICATED) |  |                |                             |
|---|--|----------------|-----------------------------|
| UN No.  | Not classified.  |                | RIS Code                    |
| Transport Category  | Not required.  | UK Hazchem EAC | Not required.<br>PSE06      |
| ADR 2009 (International Road) Proper Shipping Name                  | Class Not required.  | ADR HIN        | Not required.               |
| Limited Quantity Exemptions   | Not required.  |                | Labels<br><br>Not required. |
| Special Requirements  | Not required. Packing Group Not required.  |                |                             |
| IMDG 2008 (Sea) Proper Shipping Name                                | Class Not required.  | IMDG EMS       | Not required.               |
| Limited Quantity Exemptions   | Not required.  |                | Labels<br><br>Not required. |
| Special Requirements  | Not required. 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.<br>S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.<br>S35: This material and its container must be disposed of in a safe way.<br>S37/39: Wear suitable gloves and eye/face protection.<br>S61: Avoid release to the environment. Refer to special instructions/safety data sheet.  |
| Additional Label Phrases   | Not required.   |
| Legislation  | 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.<br>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. 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.<br>R20/21/22 : Harmful by inhalation, in contact with skin and if swallowed.<br>R22 : Harmful if swallowed.<br>R35 : Causes severe burns.<br>R36 : Irritating to eyes.<br>R36/38 : Irritating to eyes and skin.<br>R37 : Irritating to respiratory system.<br>R37/38 : Irritating to respiratory system and skin.<br>R38 : Irritating to skin.<br>R41 : Risk of serious damage to eyes.<br>R43 : May cause sensitisation by skin contact.<br>R50 : Very toxic to aquatic organisms.<br>R51,53 : Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.<br>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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