

Safety Data Sheet

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REVISION (see box 16)

Issue : 07 29 : 08 : 2006

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY	
Product Name	Medical Services Fluid
Description	A disinfectant for use by Rentokil Initial service staff. A clear to yellow perfumed liquid, for use in the Initial Medical Services Unit.
Company	Rentokil Initial Supplies, Webber Road, Knowsley Industrial Park, Liverpool, L33 7SR. For general enquiries telephone: +44 (0) 151 548 5050. For safety or regulatory enquiries telephone: + 44 (0) 1342 833022.

2 HAZARD IDENTIFICATION	
Classification (Supply – Use) : In compliance with EC Directive 1999/45.	
X_i Irritant	R43 May cause sensitisation by skin contact. R38 Irritating to skin
N Dangerous for the environment	R51/53 Toxic 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):	
<p>May be irritating to eyes and skin. Repeated or prolonged contact with skin may result in severe irritation. May cause sensitisation by skin contact, so that subsequent contact with the product will result in adverse effects to the skin such as severe skin irritation. Ingestion may cause irritation of the digestive system. If vapour or aerosol are generated, may cause irritation of the eyes and respiratory system. High atmospheric concentrations, if generated, may lead to the formation of methaemoglobin. This reduces the oxygen carrying capacity of the blood, which in sufficient concentrations causes cyanosis (grey/blue discoloration of the skin and mucous membranes).</p> <p>No other significant adverse effects expected under normal conditions of handling and use.</p>	

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	Polymeric biguanide hydrochloride EINECS: Not available CAS: 27083-27-8	X _i : R43 X _i : R38
>10.0 ≤25.0	Non-ionic surfactant* / alcohol ethoxylate EINECS: 266-367-6 CAS: 68439-46-3	N : R50,53 X _n : R22 X _i : R36/38
≤2.5	Phenylethyl alcohol* / 1-phenyl-2-ethanol EINECS: 200-456-2 CAS: 60-12-8	X _i : R36

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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. Do NOT use a water jet.
Special Fire-Fighting Procedures	Wear suitable personal protective equipment.
Special Exposure Hazards	Carbon dioxide and unidentified organic compounds may be formed on combustion. Noxious and toxic fumes may be evolved.

6 ACCIDENTAL RELEASE MEASURES	
Personal Precautions (See also box 8)	Wear suitable personal protective equipment.
Environmental Precautions	This product is classified as dangerous for the environment. Keep away from drains, surface and ground water, and soil.
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 Storage	No specific handling requirements. 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. Do not store in mild steel, copper, aluminium or zinc containers.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION	
Exposure Standard - Directive EC/98/24 (1st IOELV Directive)	Not assigned.
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 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	None necessary during normal handling and use.
Environmental Exposure Controls	Use only in accordance with instructions given.

9 PHYSICAL AND CHEMICAL PROPERTIES			
Appearance and Odour	A clear to yellow perfumed liquid.		
pH	4.0	Solubility in Water	Soluble.
Specific Gravity	1.0 at 20°C	Solubility in Other Solvents	Insoluble.
Flash Point	>70°C	Explosive Properties	None.
Flammability	Non-flammable.	Combustibility	Non-combustible.
Boiling Point/Range	Starts at ca. 100°C	Oxidising Properties	None.
Vapour Density	Not applicable.	Evaporation Rate	Not determined.
Vapour Pressure	Not applicable.	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, alkalis and oxidising agents. Do not store in mild steel, copper aluminium or zinc containers.
Hazardous Breakdown Products	Carbon dioxide and unidentified organic compounds may be formed on combustion. Noxious and toxic fumes may be evolved.

11 TOXICOLOGICAL INFORMATION (SEE ALSO BOX 2)

Acute Toxicity	Oral	Ingestion may cause irritation of the digestive system.
	Inhalation	Inhalation of high concentrations may lead to methaemoglobinemia.
	Dermal	Not determined.
Corrosivity/Irritation	Skin	Irritating to skin.
	Eyes	May cause irritation to eyes.
	Respiratory tract	May cause irritation to the respiratory tract.
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		None known.



12 ECOLOGICAL INFORMATION

General Information	This product is classified as 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 polymeric biguanide hydrochloride: LC ₅₀ 96h Rainbow trout: 3.2-13 mg/L (flow through). LC ₅₀ 96h Rainbow trout: 8.0 mg/L (static). LC ₅₀ 96h Bluegill sunfish: 0.65 – 0.9 mg/L (static). LC ₅₀ 96h Brown shrimp: 44 mg/L (semi static). EC ₅₀ 48h Daphnia magna: 0.18 – 0.45 mg/L
Mobility	Polymeric biguanide hydrochloride is soluble in water and predicted to have low mobility in soil and sediments.
Persistence and Degradability	Polymeric biguanide hydrochloride is slowly biodegradable in water
Bioaccumulative Potential	The potential for bioaccumulation of the polymeric biguanide hydrochloride is low.
Other Adverse Effects	For polymeric biguanide hydrochloride: There is no evidence of inhibition to aerobic treatment processes at a concentration of 40 mg/L or to anaerobic treatment processes at a concentration of 0.5% on dry solids.

13 DISPOSAL CONSIDERATIONS

Disposal of Waste / Containers	Under normal circumstances, waste / 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, H14 – Ecotoxic Components making the waste hazardous Polymeric biguanide hydrochloride >10.0 ≤25.0 Non-ionic surfactant >10.0 ≤25.0 Phenylethyl alcohol ≤2.5
Note for Disposal	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.	UN3082	Tremcard Reference No.	CEFIC TEC (R)- 90GM6-III	RIS Code
Transport Category	3	UK Hazchem EAC	2X	PSM31
ADR 2005 (International Road) Proper Shipping Name	Class 9 ADR HIN 90 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S (CONTAINS POLYMERIC BIGUANIDE HYDROCHLORIDE).			Labels 
Limited Quantity Exemptions	Maximum quantity per inner receptacle is 5L. Maximum quantity per outer package is 30kg. Combination packs only.			
Special Requirements	Not required. Packing Group III			
IMDG 2004 (Sea) Proper Shipping Name	Class 9 IMDG EMS F-A, S-F ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S (CONTAINS POLYMERIC BIGUANIDE HYDROCHLORIDE).			
Limited Quantity Exemptions	Maximum quantity per inner receptacle is 5L. 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	S24 Avoid contact with skin. S35 This material and its container must be disposed of in a safe way. S37 Wear suitable gloves. S46 If swallowed, seek medical advice immediately and show this container or label. S57 Use appropriate containment to avoid environmental contamination. S61 Avoid release to the aquatic 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. 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	Two 5L plastic bottles. Supplied in outer cardboard box.
Revisions	Changes have been made to the content of boxes 1, 2, 3, 4, 6, 7, 8, 9, 11, 12, 13, 14, 15 & 16 (as indicated by the thick lines on the left-hand side of the boxes) compared with issue 06.
Risk phrase text (From box 3 - These refer to the ingredients only. See box 2 for the product risk phrases)	R22 : Harmful if swallowed. R36 : Irritating to eyes. R36/38 : Irritating to eyes and skin. R38 : Irritating to skin. R43 : May cause sensitisation by skin contact. R50,53 : Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

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

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