

Safety Data Sheet

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REVISION (see box 16)

Issue : 08 19 : 07 : 2006

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY	
Product Name	DECARBONISER
Description	A decarboniser for use by Rentokil Initial service staff. A cloudy, viscous, strongly alkaline solution with a mild odour.
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 833 022.

2 HAZARD IDENTIFICATION	
Classification (Supply – Use) : In compliance with EC Directive 1999/45.	
C Corrosive	R34 : Causes burns.
Adverse Physical, Chemical, Significant Human Health and Environmental Effects (See also box 11):	
Product has a high pH and contact with acids and aluminium surfaces should be avoided.	
Contact with eyes and skin may cause burns. Ingestion may result in a sore throat, difficulty in swallowing, nausea and vomiting and in severe cases corrosion to the mouth, throat and digestive system possibly leading to penetration into vital areas. Inhalation may cause damage to the upper respiratory system. In severe cases, corrosion of the upper digestive system may occur.	
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
>2.5 ≤10.0	Sodium hydroxide EINECS : 215-185-5 CAS : 1310-73-2	C : R35
>10.0 ≤25.0	Alcohol ethoxylate EINECS : Not applicable CAS :68439-45-2	X _n : R22 X _i : R41

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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 fog, or dry powder extinguishers.
Special Fire-Fighting Procedures	Wear suitable personal protective equipment.
Special Exposure Hazards	None known.

6 ACCIDENTAL RELEASE MEASURES	
Personal Precautions (See also box 8)	Wear suitable personal protective equipment.
Environmental Precautions	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.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION	
Exposure Standard - Directive EC/98/24 (1st IOELV Directive)	Workplace Exposure Limit (WEL) for sodium hydroxide is 2 mg/m ³ short-term exposure (15 minute reference period).
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	Do not breathe vapour, otherwise wear suitable respiratory protection.
Environmental Exposure Controls	Use only in accordance with instructions given.

9 PHYSICAL AND CHEMICAL PROPERTIES			
Appearance and Odour	A cloudy, viscous, strongly alkaline solution with a mild odour.		
pH	13.2 at 20°C	Solubility in Water	Miscible.
Specific Gravity	1.5 at 20°C	Solubility in Other Solvents	Not determined.
Flash Point	Not determined.	Explosive Properties	None known.
Flammability	Non-flammable.	Combustibility	Non-combustible.
Boiling Point/Range	Starts at ca. 100°C	Oxidising Properties	None known.
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 acids and aluminium surfaces.
Hazardous Breakdown Products	None known.

11 TOXICOLOGICAL INFORMATION (SEE ALSO BOX 2)

Acute Toxicity	Oral	Ingestion of sodium hydroxide will cause severe irritation and corrosion of the mouth, throat and digestive tract.
	Inhalation	Aspiration of liquid may cause damage to upper respiratory system.
	Dermal	Not determined.
Corrosivity/Irritation	Skin	Causes burns to skin.
	Eyes	Causes burns to eyes.
	Respiratory tract	Causes burns to respiratory tract.
Sensitisation	Skin	Contains no known skin sensitisers.
	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 Development	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.
Other Information		None known.

12 ECOLOGICAL INFORMATION

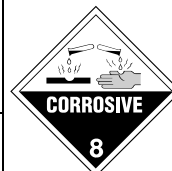
General Information	This product does not contain any substances that are classified as dangerous to the environment. Controlled release of this product is not expected to cause environmental contamination. Use only in accordance with instructions given.
Ecotoxicity Data	Sodium hydroxide is toxic to fish and algae. Concentrations greater than 4 mg/L as 100% may be lethal to fish. Increasing pH to 10 or more is lethal to aquatic life.
Mobility	All components are soluble in water.
Persistence and Degradability	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 determined.
Other Adverse Effects	None known.

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))	<u>Hazard Code:</u> H4 –Irritant.
Note for Disposal	<u>Components making the waste hazardous</u> <u>Concentrations (%):</u> Sodium Hydroxide >2.5 ≤10.0
	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.	UN1719	Tremcard Reference No.	80GC5-II+III
Transport Category	2	UK Hazchem EAC	2R
ADR 2005 (International Road)	Class 8	ADR HIN	80
Proper Shipping Name	CAUSTIC ALKALI LIQUID N.O.S. (Contains Sodium hydroxide).		
Limited Quantity Exemptions	Maximum quantity per inner receptacle is 1 kg. Maximum quantity per outer package is 30kg. Combination packs only.		
Special Requirements	Not required.		Packing Group II
IMDG 2004 (Sea)	Class 8	IMDG EMS	F-A, S-B
Proper Shipping Name	CAUSTIC ALKALI LIQUID N.O.S. (Contains Sodium hydroxide).		
Limited Quantity Exemptions	Maximum quantity per inner receptacle is 1 kg. Maximum quantity per outer package is 30kg. Combination packs only.		
Special Requirements	Not required.		Packing Group II
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 vapour.</p> <p>S26 : In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.</p> <p>S36/37/39 : Wear suitable protective clothing, gloves and eye/ face protection.</p> <p>S45 : In case of accident or if you feel unwell seek medical advice immediately (show the label where possible).</p> <p>S35 : This material and its container must be disposed of in a safe way.</p>
Additional Label Phrases	Not required.
Legislation	<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) 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.</p>

16 Other Information and indication of revisions	
Packaging Information	A white, 5 litre, plastic jerrican with a screw top.
Revisions	Changes have been made to the content of boxes 01, 02 03, 04, 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 07.
Risk phrase text (From box 3 - These refer to the ingredients only. See box 2 for the product risk phrases)	<p>R22 : Harmful if swallowed.</p> <p>R35 : Causes severe burns.</p> <p>R41 : risk of serious damage to eyes.</p>

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

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