

Safety Data Sheet

NOTE: Access to a copy of this Safety Data Sheet (SDS) via our Website does not constitute the issue of a controlled Copy under EU legislation. To be issued with such a copy please contact Rentokil Initial at the address below by telephone, fax or in writing. In order to confirm the latest version of the SDS for this product see web: www.ri-research.com and click on Technical Information / Product Safety.

REVISION (see box 16)

Issue : 06 21 : 06 : 2006

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY	
Product Name	HP 512
Description	An oxidising biocide for use by Rentokil Initial Service Staff. A clear, greenish-yellow liquid with characteristic smell of bleach.
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 R31 Contact with acids liberates toxic gas
Adverse Physical, Chemical, Significant Human Health and Environmental Effects (See also box 11):	
Prolonged contact with skin will cause severe irritation and burns. If ingested, severe irritation and burns to the mucous membranes of the mouth, throat and stomach will occur. Contact with the eyes will lead to severe eye damage in a short time. Exposure to mist or spray will cause irritation to the nose, throat and respiratory system.	
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
>50.0 ≤100.0	Sodium hypochlorite (14-15% available chlorine) EINECS : 231-668-3 CAS : 7681-52-9	C : R34 R31

HP 512

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. Keep containers cool with water-spray.
Special Fire-Fighting Procedures	Wear self-contained breathing apparatus to protect against toxic fumes.
Special Exposure Hazards	Explosive reactions are possible with ammonia and ammonium compounds. In the event of a fire, oxygen and chlorine may be liberated.

6 ACCIDENTAL RELEASE MEASURES	
Personal Precautions (See also box 8)	Wear suitable personal protective equipment.
Environmental Precautions	Keep undiluted product 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. Store away from oxidising agents, acids, organic matter, ammonia, ammonium compounds and metals and their alloys. All hypochlorite solutions decompose slowly on standing and will produce some oxygen as a gas. Rate of decomposition can be minimised by storing at low temperature and avoiding exposure to light.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION	
Exposure Standard - Directive EC/98/24 (1st IOELV Directive)	Workplace Exposure Limit (WEL) for chlorine gas is 1.5 mg/m ³ long-term exposure (8 hour Time Weighted Average) and 2.9 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 fumes or vapour. Not necessary unless natural ventilation is inadequate, then wear suitable respiratory equipment.
Environmental Exposure Controls	Use only in accordance with instructions given.

9 PHYSICAL AND CHEMICAL PROPERTIES			
Appearance and Odour	A clear, greenish-yellow liquid with characteristic smell of bleach.		
pH	Not determined.	Solubility in Water	Soluble.
Density	1.2 g/cm ³ at 20°C	Solubility in Other Solvents	Not determined.
Flash Point	Not determined.	Explosive Properties	Explosive reactions are possible with ammonia or ammonium compounds.
Flammability	Non-flammable.	Combustibility	Combustible.
Boiling Point/Range	Starts at ca. 107°C	Oxidising Properties	Readily oxidises most organic matter.
Vapour Density	Not applicable.	Evaporation Rate	Not determined.
Vapour Pressure	Not applicable.	Partition Coefficient	Not applicable.
Viscosity	Not determined.	Other Data	None known.

10 STABILITY AND REACTIVITY

Conditions to avoid	Avoid extremes of temperature, e.g. below 0°C and above 40°C, and exposure to light.
Materials to avoid	Avoid contact with oxidising agents, acids, organic matter, ammonia and ammonium compounds, metals and their alloys.
Hazardous Breakdown Products	Oxygen and chlorine gas.

11 TOXICOLOGICAL INFORMATION (SEE ALSO BOX 2)

Acute Toxicity	Oral	If ingested, severe irritation and burns to the mucous membranes of the mouth, throat and stomach will occur.
	Inhalation	Not determined.
	Dermal	Not determined.
Corrosivity/Irritation	Skin	Prolonged contact with skin will cause severe irritation and burns.
	Eyes	Contact with the eyes will lead to severe eye damage in a short time.
	Respiratory tract	Exposure to mist or spray will cause irritation to the nose, throat and respiratory system.
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	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 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	1 ppm available chlorine is toxic to all fish. 0.4 ppm available chlorine is toxic to game fish.
Mobility	Not determined.
Persistence and Degradability	Not determined.
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> H8 – Corrosive, H12: Produces toxic gases in contact with water, air or acid. <u>Components making the waste hazardous Concentrations (%):</u> Sodium hypochlorite. >50.0 ≤100.0
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.

HP 512

14 TRANSPORT INFORMATION (INTERNATIONAL UNLESS OTHERWISE INDICATED)				
UN No.	1791	Tremcard Reference No.	CEFIC TEC (R)- 80S1791	RIS Code
Transport Category	2	UK Hazchem EAC	2X	PHP512
ADR 2005 (International Road)	Class 8	ADR HIN	80	Labels
Proper Shipping Name	HYPOCHLORITE SOLUTION			
Limited Quantity Exemptions	Maximum quantity per inner receptacle is 1 litre. 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	HYPOCHLORITE SOLUTION			
Limited Quantity Exemptions	Maximum quantity per inner receptacle is 1 litre. 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>S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.</p> <p>S28 After contact with skin, wash immediately with plenty of water.</p> <p>S35 This material and its container must be disposed of in a safe way.</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 this label where possible).</p> <p>S50 Do not mix with acids.</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 plastic 12.5 litre container with a screw top.
Revisions	Changes have been made to the content of boxes 1, 2, 4, 5, 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 05.
Risk phrase text (From box 3 - These refer to the ingredients only. See box 2 for the product risk phrases)	<p>R34 : Causes burns</p> <p>R31 : Contact with acids liberates toxic gas.</p>

HP 512

SDS No. 257

Issue : 06

21 : 06 : 2006

Page 4 of 4

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.

Copyright © (2006) Rentokil Initial plc, R&D, Felcourt, East Grinstead, West Sussex. RH19 2JY. United Kingdom.

Telephone: +44 (0) 1342 833022 Fax: +44 (0) 1342 326229 Web: www.ri-research.com