

## MATERIAL SAFETY DATA SHEET

### 1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Identification of the substance or preparation:

PRODUCT NAME: **B14**  
CHEMICAL IDENTITY: Sodium hypochlorite 14/15%  
RECOMMENDED USE: Oxidising microbiocide and disinfectant

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Hydraguard Limited  
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### 2. HAZARDS IDENTIFICATION

Contact with acids liberates toxic gas. Causes burns.

Classification : C; R34, R31

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No	CAS No	Content	Classification
SODIUM HYPOCHLORITE SOLUTION	231-668-3	7681-52-9	10-30%	C;R34, R31

The full text for all R-Phrases are Displayed in Section 16

### 4. FIRST AID MEASURES

**Inhalation:** Move the exposed person to fresh air at once. Get medical attention if any discomfort continues.

**Ingestion:** DO NOT INDUCE VOMITING! Remove victim immediately from source of exposure. Immediately rinse mouth and provide fresh air. Get medical attention immediately!

**Skin Contact:** Remove affected person from source of contamination. Remove contaminated clothes and rinse skin thoroughly with water. Get medical attention immediately.

**Eye Contact:** Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes and get medical attention.

### 5. FIRE FIGHTING MEASURES

**Extinguishing Media:** This product is not flammable. Use fire-fighting extinguishing media appropriate for surrounding materials.

**Special Fire Fighting Procedures** Use water to keep fire exposed containers cool and disperse vapours.

**Specific Hazards:** Fire creates: CHLORINE. Decomposition may evolve oxygen and assist combustion of other flammable materials. In case of fire, highly toxic fumes of chlorine may be evolved; can be violent and explosively reactive when in contact with ammonia and oxidising agents.

**Protective Measures in Fire:** Self contained breathing apparatus and full protective clothing must be worn in case of fire.

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## 6. ACCIDENTAL REL EASE METHODS

Personal Precautions:	Wear protective clothing as described in Section 8 of this safety data sheet..
Environmental Precautions:	Avoid discharge to the aquatic environment. Spillages or uncontrolled discharges to watercourses must be IMMEDIATELY alerted to the Environmental Agency or other appropriate regulatory body.
Spill Clean up Methods:	DO NOT TOUCH SPILLED MATERIAL! Absorb in vermiculite, dry sand or earth and place into containers. Flush with plenty of water to clean spillage area.

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## 7. HANDLING AND STORAGE:

Usage Precautions:	Avoid spilling, skin and eye contact. Avoid inhalation of vapours and spray mists. Provide good ventilation. Avoid eating, drinking and smoking when using the product.
Storage Precautions: place. Storage Class	Keep upright. Store in tightly closed original container in a dry and cool Corrosive storage

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## 8. EXPOSURE CONTROLS

Exposure Limit:	None. In case of chlorine release ) 0.5ppm (1.5mg/m3), 8 hours TWA; 1ppm 3mg/m3, STEL.
Protective Equipment:	Wear approved Safety goggles or face shield and protective gloves
Process Conditions:	Provide Eye Wash Station
Engineering Measures:	Observe Occupational Exposure Limits and minimise the risk of inhalation of vapours.
Respiratory Equipment	If ventilation is insufficient, suitable respiratory protection must be provided
Hand Protection:	Wear protective gloves. The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material.
Eye Protection:	Use approved safety goggles or face shield.
Other Protection:	Wear appropriate clothing to prevent any possibility of skin contact. Provide eyewash station
Hygiene Measures:	DO NOT SMOKE IN WORK AREA! Wash at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated. Wash promptly if skin becomes contaminated. When using do not eat, drink or smoke.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Liquid Colour Colourless
Odour	Distinctive
Solubility	Soluble in
water Relative Density	1.18
pH Value, Conc solution	13
Boiling point (°C)	107°C

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## 10. STABILITY AND REACTIVITY

Stability	Stable under normal temperature conditions and recommended use
Conditions to Avoid	Avoid contact with acids. Avoid excessive heat for prolonged periods of time. The rate of decomposition is increased by exposure to high temperatures, exposure to dusts or foreign bodies, and a fall in pH below 10.
Materials to Avoid	Acids
Hazardous Decomposition Products	Contact with acids liberates toxic gas. Contact with oxidising agents liberates oxygen and may cause contaminated material.

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## 11. TOXICOLOGICAL INFORMATION

Inhalation	Irritating to respiratory system. Inhalation of chlorine gas will cause bronchial and pulmonary oedema.
Ingestion	Causes burns. May cause severe internal injury. Ingestion may lead to formation of chlorine gas by reaction with stomach contents.
Skin Contact	Causes burns. Corrosive. Prolonged contact causes serious tissue damage.
Eye Contact	Causes burns. Contact with concentrated chemical may very rapidly cause severe eye damage, possibly loss of sight.

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## 12. ECOLOGICAL INFORMATION

Ecotoxicity The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment. Ecotoxicity – 1 ppm available chlorine toxic to all fish. 0-4ppm available chlorine toxic for game fish. LC50, 96 hrs FISH mg/l 10 – 1000 mg/l.

Bioaccumulation No evidence of bioaccumulation.

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## 13. DISPOSAL CONSIDERATIONS

General Information Waste is classified as special waste.

Disposal Methods Dispose of waste and residues in accordance with local authority requirements

Container Triple rinse empty container thoroughly with water before disposal.

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## 14. TRANSPORT INFORMATION

### LAND TRANSPORT

UN Road Class	8	Proper Shipping Name	HYPOCHLORITE SOLUTION
UN No. Road	1791	UK Road Packing Group:	III
ADR Class No.	8	ADR Class:	Class 8: Corrosive substances
ADR Pack Group	III	ADR Label:	8
Hazard ID No	80	Hazchem Code	2X
RID Class No.	8	RID Pack Group	III
UN No Sea	1791	IMDG Class	8
IMDG Pack Gr.	III	EMS	F-A, S-B
MFAG	See Guide	Marine Pollutant	No.
UN No. Air	1791	ICAO Class	8
Air Pack Gr	III		

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## 15. REGULATORY INFORMATION

Labelling Corrosive

Contains Sodium Hypochlorite

Risk Phrases R31 Contact with acids liberates toxic gas  
R34 Causes burns

Safety Phrases S24/25 Avoid contact with skin and eyes  
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
S27 Take off immediately all contaminated clothing  
S36/37/39 Wear suitable protective clothing, gloves and eye/face protection  
S45 In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).  
S50 Do not mix with acid  
S60 This material and its container must be disposed of as hazardous waste.

UK Regulatory References Chemicals (Hazard Information & Packaging) Regulations

Approved Code of Practice Safety Data Sheets for Substances and Preparations. Classification and Labelling of Substances and Preparations Dangerous for Supply.

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## 16. OTHER INFORMATION

Revision Date: 3-2008

Risk Phrases in Full R31 Contact with acids liberates toxic gas  
R34 Causes burns

### DISCLAIMER

This data sheet does not constitute a User's Assessment of Workplace Risk as required by HSW Act, COSHH, Management of Health and Safety at Work Regulations, or other Health and Safety Legislation. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.