

# SAFETY DATA SHEET



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## 1. PRODUCT 4/5% LIQUID BLEACH

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## 2. GENERAL COMPOSITION

Sodium Hypochlorite in aqueous solution, strength range 4-5% as active chlorine. pH 14, s.g. 1.07 (15 oC). Sodium Hydroxide (COSHH 2 ppm LTEL 8 hour. TWA and STEL 10 minutes).

## APPLICATION

Sterilisation of toilets, hard surfaces, drains etc. Bleaching materials.

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## 3. HAZARD IDENTIFICATION

Irritant. Irritating to the eyes (cpl risk 36).  
Contact with acids liberates a toxic chlorine gas (cpl risk 31).  
Irritating to the skin (cpl risk 38).  
Some surfaces and materials may be damaged, test a small unimportant area.  
Reacts with some light metals, ammonium salts, acetone and formaldehyde.



**IRRITANT**

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## 4. FIRST AID MEASURES

**Eyes** Immediately irrigate the eyes with plenty of fresh water. Seek medical attention at once.

**Skin** After contact wash off immediately with plenty of water.

**Ingestion** Rinse mouth with fresh water. Give water to drink but do not induce vomiting. Seek medical attention at once.

## 5. FIRE FIGHTING MEASURES

Non flammable but a strong oxidising agent and is a fire risk in contact with organic materials. Extinguish with foam, chemical or water.

ID No 1791 IMCO No 8104 CAS No 7681-52-9 Hazchem Code 2R

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## 6. ACCIDENTAL RELEASE MEASURES

Small spillages should be washed away with water. Larger spillages contain with earth or sand. Wash down site of spillage with water. Do not use organic materials. Do not mix with other waste products. Dispose of in accordance with local authority regulations.

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## 7. HANDLING AND STORAGE

**Handling** Avoid contact with eyes and skin (cpl safety 24/25). Wear plastic or rubber gloves and eyeshields (cpl safety 36). Do not take internally. Do not mix with other cleaners (cpl safety 50). If clothing is wetted remove and wash in fresh water (cpl safety 27).

**Storage** Keep out of reach of children (cpl safety 2). Store upright in a cool place (cpl safety 3).

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Avoid contact with eyes and skin.

**Eye:** Safety goggles recommended.

**Hand:** Impervious gloves recommended.

**Skin:** Protective overalls and shoes/boots recommended.

**Respiratory:** Non required.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES (Not a Specification)

**Appearance** : Straw coloured liquid  
**Odour** : Characteristic chlorine smell.  
**pH (1% solution)** : 10.5.  
**Pour point** : NA  
**Flash point** : NA  
**Explosion Limits** : NA  
**Density @ 20°C** : 1.076  
**Solubility** : Fully water soluble.

## 10. STABILITY AND REACTIVITY

*This product is considered stable under normal conditions.*

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## 11. TOXICOLOGICAL INFORMATION

*Irritating to eyes and skin. Harmful by ingestion.*

*LD<sub>50</sub> (Oral; rat) 36000mg/kg.*

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## 12. ECOLOGICAL INFORMATION

*Do not release into surface waters. Is miscible with water and will percolate through soil. Sodium Hypochlorite will decompose gradually to Sodium Chloride (common salt), Sodium Chlorate and oxygen. Toxic chlorine gas will be liberated with acidic soils or water.*

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## 13. DISPOSAL

*When disposing of waste or surplus material avoid contact with eyes and skin. Wear impervious gloves, overalls and safety goggles.*

*Do not mix with other waste materials.*

*Dispose of in accordance with local authority regulations.*

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## 14. TRANSPORT INFORMATION

UN No: 1791

UK Road: Hazchem Code: 2R  
UN substance identification number: 1791  
Classification: Irritant Substance.

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## 15. REGULATORY INFORMATION

Hazard classification	: Irritant.	
Hazard symbol	: Xi	
Risk phrases	: R31	Contact with acid liberates a toxic gas.
	: R36/38	Irritating to eyes and skin.
Safety phrases	: S2	Keep out of reach of children.
	: S26	In case of contact with eyes, rinse immediately with plenty of water. Seek medical attention immediately.
	: S36	Wear suitable protective clothing.

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## 16. OTHER INFORMATION

*The above information is based on the present state of our knowledge and experience of the product at the time of publication. It is given in good faith but no warranty is implied with respect to quality and specification. The user must satisfy himself that the product is entirely suitable for his purpose.*

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