



## SAFETY DATA SHEET

### 02111 - Directional Thick Bleach

#### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

##### 1.1. Product identifier

<b>Product name</b>	Directional Thick Bleach
<b>Product No.</b>	02111
<b>Internal Id</b>	00022612 (2 - 27/01/2010)
<b>Container size</b>	750ml

##### 1.2. Relevant identified uses of the substance or mixture and uses advised against

<b>Identified uses</b>	Bleach
<b>Uses advised against</b>	Avoid contact with acids.

##### 1.3. Details of the supplier of the safety data sheet

<b>Supplier</b>	Merton Group (UK) Ltd Unit 9 Foxholes Road off Golf Course Lane Leicester LE3 1TH United Kingdom Tel 0116 231 4040 Email headoffice@mertongroup.co.uk
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##### 1.4. Emergency telephone number

0116 231 4040

#### SECTION 2: HAZARDS IDENTIFICATION

##### 2.1. Classification of the substance or mixture

###### **Classification (EC 1272/2008)**

Physical and Chemical Hazards	Met. Corr. 1 - H290
Human health	Skin Corr. 1A - H314
Environment	Not classified.

###### **Classification (1999/45/EEC)**

Xi;R36/38.

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

###### **Human health**

Causes severe skin burns and eye damage.

###### **Physical and Chemical Hazards**

May be corrosive to metals.

##### 2.2. Label elements

Label In Accordance With (EC) No. 1272/2008



###### **Signal Word**

Danger

###### **Hazard Statements**

H290	May be corrosive to metals.
H314	Causes severe skin burns and eye damage.



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**Eye contact**

This chemical may cause skin/eye irritation and burns (corrosive).

**4.3. Indication of any immediate medical attention and special treatment needed**

No recommendation given, but first aid may still be required in case of accidental exposure, inhalation or ingestion of this chemical. If in doubt, GET MEDICAL ATTENTION PROMPTLY!

**SECTION 5: FIREFIGHTING MEASURES****5.1. Extinguishing media****Extinguishing media**

Extinguish with foam, carbon dioxide, dry powder or water fog. Use fire-extinguishing media appropriate for surrounding materials.

**5.2. Special hazards arising from the substance or mixture****Hazardous combustion products**

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

**Unusual Fire & Explosion Hazards**

None known.

**Specific hazards**

The product is non-combustible. If heated, toxic vapours may be formed. Chlorine.

**5.3. Advice for firefighters****Special Fire Fighting Procedures**

Use protective equipment appropriate for surrounding materials.

**SECTION 6: ACCIDENTAL RELEASE MEASURES****6.1. Personal precautions, protective equipment and emergency procedures**

Avoid contact with skin and eyes. For personal protection, see section 8.

**6.2. Environmental precautions**

Collect and dispose of spillage as indicated in section 13.

**6.3. Methods and material for containment and cleaning up**

Wear necessary protective equipment. Small Spillages: Flush away spillage with plenty of water. Large Spillages: Absorb with sand or other inert absorbent. Transfer to a container for disposal. For waste disposal, see section 13.

**6.4. Reference to other sections**

For personal protection, see section 8. For waste disposal, see section 13.

**SECTION 7: HANDLING AND STORAGE****7.1. Precautions for safe handling**

Read label before use.

**7.2. Conditions for safe storage, including any incompatibilities**

Unsuitable containers: metals. Keep away from food, drink and animal feeding stuffs. Store in closed original container at temperatures between 5°C and 25°C.

**Storage Class**

Lagerklasse 8B

**7.3. Specific end use(s)**

The identified uses for this product are detailed in Section 1.2.

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION****8.1. Control parameters**

Name	STD	TWA - 8 Hrs	STEL - 15 Min	Notes
SODIUM HYDROXIDE	WEL		2 mg/m3	

WEL = Workplace Exposure Limit.

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**8.2. Exposure controls****Protective equipment****Hand protection**

For prolonged or repeated skin contact use suitable protective gloves. Rubber gloves are recommended.

**Eye protection**

Wear approved, tight fitting safety glasses where splashing is probable.

**Hygiene measures**

Wash hands after handling.

**Skin protection**

Wear suitable protective clothing as protection against splashing or contamination.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

**9.1. Information on basic physical and chemical properties**

<b>Appearance</b>	Liquid
<b>Colour</b>	Yellow.
<b>Odour</b>	Slight odour. Chlorine.
<b>Solubility</b>	Soluble in water.
<b>Initial boiling point and boiling range (°C)</b>	ca. 95°C 760 mm Hg
<b>Melting point (°C)</b>	ca. 0°C
<b>Relative density</b>	1.067 - 1.097 @ 20°C
<b>Vapour density (air=1)</b>	Not applicable.
<b>Vapour pressure</b>	Not applicable.
<b>Evaporation rate</b>	Not applicable.
<b>pH-Value, Conc. Solution</b>	12.0 - 14.0
<b>Viscosity</b>	50 - 120 cP @ 20°C
<b>Decomposition temperature (°C)</b>	Not applicable.
<b>Odour Threshold, Lower</b>	Not applicable.
<b>Odour Threshold, Upper</b>	Not applicable.
<b>Flash point (°C)</b>	> 61°C CC (Closed cup).
<b>Auto Ignition Temperature (°C)</b>	Not applicable.
<b>Flammability Limit - Lower(%)</b>	Not applicable.
<b>Flammability Limit - Upper(%)</b>	Not applicable.
<b>Partition Coefficient (N-Octanol/Water)</b>	Not applicable.
<b>Explosive properties</b>	Not applicable.
<b>Oxidising properties</b>	Oxidises organic material and metals.

**9.2. Other information**

Not available.

## SECTION 10: STABILITY AND REACTIVITY

**02111 - Directional Thick Bleach****10.1. Reactivity**

Generates toxic gas in contact with acid. Chlorine.

**10.2. Chemical stability**

Stable under normal temperature conditions and recommended use.

**10.3. Possibility of hazardous reactions**

Generates toxic gas in contact with acid. Chlorine.

**10.4. Conditions to avoid**

Avoid contact with acids. Avoid excessive heat for prolonged periods of time.

**10.5. Incompatible materials****Materials To Avoid**

Acids.

**10.6. Hazardous decomposition products**

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Chlorine.

**SECTION 11: TOXICOLOGICAL INFORMATION****11.1. Information on toxicological effects****Acute toxicity:****Acute Toxicity (Oral LD50)**

> 2900 mg/kg Mouse  
2, 900 - 3, 400 (Sodium hypochlorite)

**Acute Toxicity (Dermal LD50)**

> 2000 mg/kg Rabbit  
Sodium hypochlorite

**Acute Toxicity (Inhalation LC50)**

> 10.5 mg/l (vapours) Rat  
Sodium hypochlorite

**Skin Corrosion/Irritation:****Extreme pH.**

≥ 11.5  
Corrosive

**Inhalation**

Unlikely route of exposure as the product does not contain volatile substances.

**Ingestion**

Corrosive. Even small amounts may cause serious damage.

**Skin contact**

Corrosive. Prolonged contact causes serious tissue damage.

**Eye contact**

Corrosive. Prolonged contact causes serious eye and tissue damage.

**Route of entry**

Ingestion. Skin and/or eye contact.

**SECTION 12: ECOLOGICAL INFORMATION****Ecotoxicity**

The product is not expected to be toxic to aquatic organisms.

**12.1. Toxicity**

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**Acute Fish Toxicity**

Not considered toxic to fish.

**12.2. Persistence and degradability****Degradability**

The surfactant(s) contained in this preparation complies(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.

**12.3. Bioaccumulative potential****Bioaccumulative potential**

No data available on bioaccumulation.

**Partition coefficient**

Not applicable.

**12.4. Mobility in soil****Mobility:**

The product is soluble in water.

**12.5. Results of PBT and vPvB assessment**

This product does not contain any PBT or vPvB substances.

**12.6. Other adverse effects**

None known.

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**SECTION 13: DISPOSAL CONSIDERATIONS**


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**General information**

When handling waste, consideration should be made to the safety precautions applying to handling of the product.

**13.1. Waste treatment methods**

Dispose of waste and residues in accordance with local authority requirements.

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**SECTION 14: TRANSPORT INFORMATION**


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**14.1. UN number**

UN No. (ADR/RID/ADN)	1791
UN No. (IMDG)	1791
UN No. (ICAO)	1791

**14.2. UN proper shipping name**

Proper Shipping Name	HYPOCHLORITE SOLUTION
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**14.3. Transport hazard class(es)**

ADR/RID/ADN Class	8
ADR/RID/ADN Class	Class 8: Corrosive substances.
ADR Label No.	8
IMDG Class	8
ICAO Class/Division	8

**Transport Labels****14.4. Packing group**

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ADR/RID/ADN Packing group	III
IMDG Packing group	III
ICAO Packing group	III

**14.5. Environmental hazards****Environmentally Hazardous Substance/Marine Pollutant**

No.

**14.6. Special precautions for user**

EMS	F-A, S-B
Emergency Action Code	2X
Hazard No. (ADR)	80
Tunnel Restriction Code	(E)

**14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

Not relevant

**SECTION 15: REGULATORY INFORMATION****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU Legislation**

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments. Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments.

**Authorisations (Title VII Regulation 1907/2006)**

No specific authorisations are noted for this product.

**Restrictions (Title VIII Regulation 1907/2006)**

No specific restrictions of use are noted for this product.

**15.2. Chemical Safety Assessment**

No chemical safety assessment has been carried out.

**SECTION 16: OTHER INFORMATION****Revision Comments**

Change to CLP classification

**Issued By** Rowland Furse / Simon Burt**Revision Date** 12/06/2015**Revision** 5**Risk Phrases In Full**

R31 Contact with acids liberates toxic gas. , R34 Causes burns. , R35 Causes severe burns. , R36/38 Irritating to eyes and skin. , R50 Very toxic to aquatic organisms.

**Hazard Statements In Full**

EUH031 Contact with acids liberates toxic gas. , H290 May be corrosive to metals. , H314 Causes severe skin burns and eye damage. , H400 Very toxic to aquatic life.