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## 1. Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

**Product name:** THICK BLEACH

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

Thickened hypochlorite bleach for commercial use.

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

**SUPPLIER:**

CHEMICAL SOLUTIONS UK  
42 Kennel Lane  
Fetcham  
SURREY  
08452500943  
sales@chemical-solutions.co.uk

### 1.4 Emergency telephone number

01372 456108

## 2. Hazards identification

### 2.1 Classification of the substance or mixture

**Classification under CLP Regs.:** Met Corr 1, H290; Skin Corrr 1A, H314; Aquatic ac.,H400; Aquatic chronic, H411; EUH031

### 2.2 Label elements

**Label elements under CLP:**

Contains Sodium hypochlorite, sodium hydroxide

**Hazard pictograms:** GHS05, GHS09



**Signal Word:** Danger

**Hazard Statements:** H314: Causes severe skin burns and eye damage. H290: May be corrosive to metals. H400: Very toxic to aquatic life. H411: Toxic to aquatic life with long lasting effects. EUH031: Contact with acids liberates toxic gas.

**Precautionary statements : PREVENTION:** Wash hands thoroughly after handling. Wear protective gloves, clothing and eye protection. Avoid release into the environment.

**RESPONSE:** IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair) : Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.

**STORAGE:** Store locked up.

### 2.3 Other hazards

**PBT:** this material does not contain any substance identified as a PBT or vPvB substance

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### 3. Composition/information on ingredients

#### 3.1 Substances

#### 3.2 Mixtures

##### Hazardous ingredients:

CAS	EINECS	Classification CLP	Conc %w/w
Sodium hypochlorite (REACH Reg. No. 01-2119488154-34)			
7681-52-9	231-668-3	Met. Corr. 1 H290; Skin corr. 1B H314; Aquat. Ac. H400; Aq. Chr. 2 H411; EUH031	2-5
Sodium hydroxide			
1310-73-2	215-185-5	Met. Corr 1 H290; Skin corr. 1A – H314	1-3
Sodium C10-C16 alkyl ethoxysulphate			
68585-34-2	500-223-8	Skin irrit.2 H315; Eye dam.1 H318	1-3
Amines, C12-14 (even numbered)- alkyldimethyl, N-oxides (REACH Reg. No. 01-2119490061-47)			
	931-292-6	Skin irrit. 2 H315; Eye dam. 1 H318; Aq. Acute 1 H400; Aq. Chronic 2 H411	1-3

See section 16 for full text of H statements

### 4. First aid measures

#### 4.1 Description of first aid measures

**Eye contact:** Flush with clean water for at least 15 minutes. Seek medical advice.

**Skin contact:** Remove at once all contaminated clothing. Wash area with soap and water. Seek medical advice if irritation persists.

**Ingestion:** DO NOT induce vomiting. Give plenty of water to drink and seek immediate medical attention.

**Inhalation:** Remove from exposure. Get medical attention if any symptoms persist.

#### 4.2 Most important symptoms and effects both acute and delayed

Irritation may not be immediately apparent.

#### 4.3 Indication of any immediate medical attention and special treatment needed

### 5. Fire fighting measures

#### 5.1 Extinguishing media

##### Suitable extinguishing agents:

Product is not flammable although irritating fumes may be given off in the event of fire. Choice of extinguisher should be based on other surrounding materials.

##### Unsuitable agents:

#### 5.2 Special hazards arising from the substance or mixture

Oxides of carbon and other irritating or toxic fumes may be produced in a fire.

#### 5.3 Advice for firefighters

Wear self-contained breathing apparatus and protective clothing. Containers may be kept cool with water spray.

### 6. Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

Wear appropriate protective clothing and ensure good ventilation.

#### 6.2 Environmental precautions

Do not allow concentrate to enter drains or water courses. The appropriate authority should be notified in the case of significant spillage or uncontrolled discharge.

#### 6.3 Methods and material for containment and cleaning up

Small spillages may be rinsed away with plenty of water. Larger spillages should be contained and absorbed in inert material. Transfer to plastic container for disposal.

#### 6.4 Reference to other sections

See section 8 for protective clothing

See section 7 for safe handling

See section 13 for disposal

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### 7. Handling and storage

#### 7.1 Precautions for safe handling

Avoid contact with eyes and skin.

#### 7.2 Conditions for safe storage, including any incompatibilities

Store in original container, tightly closed. Keep away from acids.

#### 7.3 Specific end use

See section 1.2.

### 8. Exposure controls/personal protection

#### 8.1 Control parameters

##### Substances assigned Workplace Exposure Limits

Name	type	Long term (8hrTWA)	Short term (15mins)
Sodium hydroxide	WEL		2mg/m <sup>3</sup>

#### 8.2 Exposure controls

Wear impervious rubber gloves and general workwear. Wear eye protection to prevent liquid splashes if likely. Avoid inhalation of spray mist.

### 9. Physical and chemical properties

#### 9.1 Information on basic physical and chemical properties

Appearance: Clear viscous liquid.

Colour: colourless to pale yellow/green

Odour: Slight chlorine

Density at 20°C: 1.08kg/ltr

Solubility: Completely soluble in water.

pH(1% solution):> 11

Flash point: N/A

Boiling point/range: > 100°C

#### 9.2 Other information

No further relevant information.

### 10. Stability and reactivity

#### 10.1 Reactivity

Reacts with acids to produce chlorine gas. Dangerous reactions possible with alcohols, aldehydes, ketones and ammonia.

#### 10.2 Chemical stability

Decomposes slowly with evolution of oxygen.

#### 10.3 Possibility of hazardous reactions

Not in normal use ( see 10.1).

#### 10.4 Conditions to avoid

Avoid extremes of temperature.

#### 10.5 Incompatible materials

Avoid contact with strong acids and reactive metals.

#### 10.6 Hazardous decomposition products

Oxides of carbon and other irritating or toxic fumes may be produced in a fire..

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### 11. Toxicological information

#### 11.1 Information on toxicological effects.

Eyes: Irritation, possible burns

Skin: Irritation, burns on prolonged contact.

Ingestion: Burns to throat and mouth, abdominal pain, vomiting.

Inhalation (mist): Coughing, shortness of breath, damage to membranes of nose and throat.

Acute toxicity, Toxic dose LD50 (oral, rat): ) Sodium hypochlorite 1100mg/kg; Sodium hydroxide 325mg/kg;

### 12. Ecological information

#### 12.1 Toxicity

Aquatic toxicity: Toxicity of ingredients - Sodium hydroxide LC<sub>50</sub>: 33 – 189ml/l (fish, 96hrs.);

Sodium hypochlorite LC<sub>50</sub>: 0.01- 0.1mg/l (Fish, 96hrs), EC<sub>50</sub> 0.01 – 0.1mg/l (Daphnia, 48hrs).

#### 12.2 Persistence and degradability

Not determined.

#### 12.3 Bioaccumulative potential

Not expected to bioaccumulate.

#### 12.4 Mobility in soil

Soluble in water.

#### 12.5 Results of PBT and vPvB assessment

Does not contain any ingredients identified as PBT or vPvB substances.

#### 12.6 Other adverse effects

### 13. Disposal considerations

#### 13.1 Waste treatment methods

Comply with local regulations. Do not allow concentrate to enter water systems.

### 14. Transport information

#### 14.1 UN Number

UN 1791

#### 14.2 UN Proper shipping name

HYPOCHLORITE SOLUTION

#### 14.3 Transport hazard class(es)

Class 8 Corrosive substances (ADR, RID, IMDG, IATA)

#### 14.4 Packing group

Group III

#### 14.5 Environmental hazards

Marine pollutant.

#### 14.6 Special precautions for user



### 15. Regulatory information

#### 15.1 Safety, health and environmental regulations/legislation specific for substance or mixture

#### 15.2 Chemical safety assessment

A chemical safety assessment has not been carried out for this product.

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### 16. Other information

This safety data sheet has been prepared according to EU Commission Regulation 453/2010

The information supplied in this document is based on our present state of knowledge and is given in good faith. It is not intended and should not be construed as a specification or guarantee of specific properties. The responsibility remains with the user to comply with all relevant laws, regulations and directives, to make their own assessment of workplace risks and to determine the suitability of the product for a particular use or application.

The hazards information in this data sheet refers to the material as supplied and not to any subsequent dilution or mixture. The full text of the H statements referred to in section 3 are shown below. These classifications apply to the ingredients, in their concentrated form, which contribute to the classification of the product or mixture

H290: May be corrosive to metals.

H314: Causes severe skin burns and eye damage.

H315: Causes skin irritation.

H318: Causes serious eye damage.

H400: Very toxic to aquatic life.

H411: Toxic to aquatic life with long lasting effects.

EUH031: Contact with acids liberates toxic gas.

#### Abbreviations and acronyms

ADR	European Agreement concerning the International Carriage of Goods by Road
CAS	Chemical Abstracts Service
CHIP	Chemicals (Hazard Information and Packaging) Regulations – Directives 1999/45/EC and 67/548/EC
CLP	Classification and Labelling of Chemicals – Regulation (EC) No. 1272/2008
CMR	Carcinogenic-mutagenic-toxic for reproduction
EINECS	European Inventory of Existing Commercial Chemical Substances
GHS	Globally Harmonised System of Classification and Labelling of Chemicals
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods Code
LC50	Lethal Concentration, 50%
LD50	Lethal Dose, 50%
OEL	Occupational Exposure Limit
PBT	Persistent, Bioaccumulative, Toxic
vPvB	very Persistent, very Bioaccumulative
RID	Convention concerning International Carriage by Rail
WEL	Workplace Exposure Limit
VOC	Volatile Organic Compound