



# HYPOCLOR 10

## SAFETY DATA SHEET HYPOCLOR 10

According to Regulation (EC) No 1907/2006, Annex II, as amended by Regulation (EU) No 453/2010

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product name                   HYPOCLOR 10 - 10% Bleach  
Product number                J22  
Container size                 5 Litres

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

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

Supplier                         CleanSource Professional (GB)  
Brickfield House  
Meadow Street  
Swansea, South Wales  
SA1 6RZ, UNITED KINGDOM

Tel:                   01792 582 000  
Fax:                   01792 582 111  
Email:                info@clean-source.com  
Web:                  www.clean-source.com

Contact person

#### 1.4. Emergency telephone number

Emergency telephone                **NHS: 111** (Strictly for emergencies only: incidents involving damage to human health and/or the environment)

### SECTION 2: Hazards identification

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

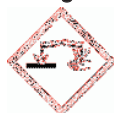
##### Classification

Physical hazards                    Not Classified  
Health hazards                     Skin Corr. 1B - H314  
Environmental hazards            Not Classified

Classification (67/548/EEC or 1999/45/EC)   Xi;R36/38. N;R50. R31.

#### 2.2. Label elements

##### Pictogram



Signal word                         Danger

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<b>Hazard statements</b>	H314 Causes severe skin burns and eye damage.
<b>Precautionary statements</b>	P280 Wear protective gloves/protective clothing/eye protection/face protection. P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 Immediately call a POISON CENTER/doctor. P102 Keep out of reach of children.
<b>Contains</b>	SODIUM HYPOCHLORITE SOLUTION, ... % CI ACTIVE
<b>Detergent labelling</b>	5 - < 15% chlorine-based bleaching agents
<b>Supplementary precautionary statements</b>	P234 Keep only in original container. P264 Wash contaminated skin thoroughly after handling. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P321 Specific treatment (see medical advice on this label). P363 Wash contaminated clothing before reuse. P390 Absorb spillage to prevent material damage. P391 Collect spillage. P405 Store locked up. P406 Store in corrosive resistant/... container with a resistant inner liner. P501 Dispose of contents/container in accordance with national regulations.

## 2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

<b>SODIUM HYPOCHLORITE SOLUTION, ... % CI ACTIVE</b>		<b>5-10%</b>
CAS number: 7681-52-9	EC number: 231-668-3	REACH registration number: 01-2119488154-34-XXXX
M factor (Acute) = 10		
<b>Classification</b>	<b>Classification (67/548/EEC or 1999/45/EC)</b>	
Met. Corr. 1 - H290	C;R34 R31 N;R50	
Skin Corr. 1B - H314		
Eye Dam. 1 - H318		
Aquatic Acute 1 - H400		

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

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

<b>General information</b>	Provide eyewash station and safety shower.
<b>Inhalation</b>	Remove affected person from source of contamination. Keep affected person warm and at rest. Get medical attention immediately. For breathing difficulties, oxygen may be necessary.
<b>Ingestion</b>	Never give anything by mouth to an unconscious person. Rinse mouth thoroughly with water. Give plenty of water to drink. DO NOT induce vomiting. Get medical attention immediately.

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<b>Skin contact</b>	Remove affected person from source of contamination. Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention promptly if symptoms occur after washing.
<b>Eye contact</b>	Remove affected person from source of contamination. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention immediately. Continue to rinse.

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

<b>General information</b>	The severity of the symptoms described will vary dependent on the concentration and the length of exposure. Chemical burns must be treated by a physician. Get medical attention immediately.
<b>Inhalation</b>	Gas (chlorine), emitted under fire or acidic conditions, is toxic by inhalation.
<b>Ingestion</b>	Will immediately cause corrosion of, and damage to, the gastrointestinal tract.
<b>Skin contact</b>	May cause serious chemical burns to the skin.
<b>Eye contact</b>	May cause severe inflammation, corneal ulcers and permanent impairment of vision.

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

<b>Notes for the doctor</b>	Symptomatic treatment and supportive therapy as indicated.
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## **SECTION 5: Firefighting measures**

### 5.1. Extinguishing media

<b>Suitable extinguishing media</b>	The product is not flammable. Use fire-extinguishing media suitable for the surrounding fire. Foam, carbon dioxide or dry powder.
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### 5.2. Special hazards arising from the substance or mixture

<b>Specific hazards</b>	Contact with some metals eg. aluminium, zinc can produce flammable hydrogen gas. Oxidising agent; may assist combustion. Containers may burst if overheated.
<b>Hazardous combustion products</b>	Fire or high temperatures create: Chlorine. Oxides of the following substances: Chlorine. Hydrogen chloride (HCl).

### 5.3. Advice for firefighters

<b>Protective actions during firefighting</b>	Control run-off water by containing and keeping it out of sewers and watercourses.
<b>Special protective equipment for firefighters</b>	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

## **SECTION 6: Accidental release measures**

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

<b>Personal precautions</b>	Wear protective clothing as described in Section 8 of this safety data sheet.
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### 6.2. Environmental precautions

<b>Environmental precautions</b>	Avoid or minimise the creation of any environmental contamination. Avoid discharge into drains or watercourses or onto the ground.
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### 6.3. Methods and material for containment and cleaning up

<b>Methods for cleaning up</b>	Do not touch or walk into spilled material. Stop leak if possible without risk. Absorb in vermiculite, dry sand or earth and place into containers. Flush contaminated area with plenty of water.
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### 6.4. Reference to other sections

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**Reference to other sections** For waste disposal, see Section 13. See Section 11 for additional information on health hazards.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

**Usage precautions** Avoid spilling. Avoid contact with skin and eyes. Avoid the formation of mists. Provide adequate ventilation. Read and follow manufacturer's recommendations. Wear protective clothing as described in Section 8 of this safety data sheet. Avoid contact with acids and other cleaning agents.

**Advice on general occupational hygiene** Do not eat, drink or smoke when using this product. Good personal hygiene procedures should be implemented. Wash hands and any other contaminated areas of the body with soap and water before leaving the work site.

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

**Storage precautions** Store in tightly-closed, original container in a well-ventilated place. Acids. Suitable containers: high density polyethylene.

**Storage class** Corrosive storage.

### 7.3. Specific end use(s)

**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

**Ingredient comments** No exposure limits known for ingredient(s). In case of Chlorine emission, the WEL for Chlorine should be observed: Short Term Exposure Limit (STEL) 1 ppm / 2.9 mg/m<sup>3</sup>. Long Term Exposure Limit (LTEL) 0.5 ppm / 1.5 mg/m<sup>3</sup>. WEL = Workplace Exposure Limits

### SODIUM HYPOCHLORITE SOLUTION, ... % CI ACTIVE (CAS: 7681-52-9)

<b>DNEL</b>	Industry - Inhalation; Long term local effects: 1.55 mg/m <sup>3</sup> Industry - Inhalation; Long term systemic effects: 1.55 mg/m <sup>3</sup> Industry - Inhalation; Short term local effects: 3.1 mg/m <sup>3</sup> Industry - Inhalation; Short term systemic effects: 3.1 mg/m <sup>3</sup> Consumer - Inhalation; Long term local effects: 1.55 mg/m <sup>3</sup> Consumer - Inhalation; Long term systemic effects: 1.55 mg/m <sup>3</sup> Consumer - Inhalation; Short term local effects: 3.1 mg/m <sup>3</sup> Consumer - Inhalation; Short term systemic effects: 3.1 mg/m <sup>3</sup> Consumer - Oral; Long term systemic effects: 0.26 mg/kg/day
<b>PNEC</b>	- Fresh water; 0.00021 mg/l - Marine water; 0.000042 mg/l - Intermittent release; 0.00026 mg/l - STP; 0.03 mg/l

### 8.2. Exposure controls

#### Protective equipment



#### Appropriate engineering controls

Provide adequate ventilation. Avoid inhalation of vapours. Observe any occupational exposure limits for the product or ingredients.

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<b>Eye/face protection</b>	Wear tight-fitting, chemical splash goggles or face shield.
<b>Hand protection</b>	Wear protective gloves. Neoprene. Nitrile rubber. Polyethylene. Polyvinyl chloride (PVC).
<b>Other skin and body protection</b>	Wear appropriate clothing to prevent any possibility of skin contact. Appropriate footwear and additional protective clothing complying with an approved standard should be worn if a risk assessment indicates skin contamination is possible.
<b>Hygiene measures</b>	Provide eyewash station and safety shower. Wash hands at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes contaminated. Promptly remove any clothing that becomes contaminated. Use appropriate skin cream to prevent drying of skin.
<b>Respiratory protection</b>	Respiratory protection not normally required. If ventilation is inadequate, suitable respiratory protection must be worn. Type approved for mists if OES likely to be exceeded. Wear a respirator fitted with the following cartridge: Gas filter, type B.
<b>Environmental exposure controls</b>	Users should be aware of environmental considerations and their duties under the environmental protection act. Further information may be found on Government websites: <a href="http://www.dti.gov.uk/access/index/htm">www.dti.gov.uk/access/index/htm</a> and <a href="http://www.envirowise.gov.uk">www.envirowise.gov.uk</a> .

## SECTION 9: Physical and Chemical Properties

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

<b>Appearance</b>	Liquid.
<b>Colour</b>	Green-yellow.
<b>Odour</b>	Chlorine.
<b>Odour threshold</b>	Not applicable.
<b>pH</b>	pH (concentrated solution): 12.3
<b>Melting point</b>	Not applicable.
<b>Initial boiling point and range</b>	Not applicable.
<b>Flash point</b>	Not applicable.
<b>Evaporation rate</b>	Not determined.
<b>Evaporation factor</b>	Not applicable.
<b>Vapour pressure</b>	Not determined.
<b>Vapour density</b>	Not determined.
<b>Relative density</b>	1.08 @ 20°C
<b>Bulk density</b>	Not applicable.
<b>Solubility(ies)</b>	Soluble in water.
<b>Auto-ignition temperature</b>	Not applicable.
<b>Decomposition Temperature</b>	Not applicable.
<b>Viscosity</b>	Not determined.
<b>Explosive properties</b>	Not applicable
<b>Oxidising properties</b>	Not applicable.
<b>Comments</b>	Information given is applicable to the product as supplied.

### 9.2. Other information

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**Other information** Not relevant.

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

**Reactivity** Reacts with many inorganic and organic compounds Contact with acids liberates toxic chlorine gas.

### 10.2. Chemical stability

**Stability** Stable under the prescribed storage conditions. Decomposes over time. Factors that increase the rate of decomposition: increase in temperature, certain metallic impurities, high initial concentration, fall in pH below 11 and exposure to light.

### 10.3. Possibility of hazardous reactions

**Possibility of hazardous reactions** Contact with acids liberates toxic chlorine gas. Oxidising agent; may assist combustion. Reacts with ammonia solutions and amines to form explosive compounds.

### 10.4. Conditions to avoid

**Conditions to avoid** Avoid exposure to high temperatures or direct sunlight.

### 10.5. Incompatible materials

**Materials to avoid** Acids. Ammonium compounds. Organic compounds. Metals, particularly copper, nickel and iron.

### 10.6. Hazardous decomposition products

**Hazardous decomposition products** Chlorine.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

**Toxicological effects** Data for sodium hypochlorite solution 15% shows low acute oral toxicity: LC50(rat, oral) 1100 mg/kg (as available chlorine).

**Other health effects** There is no evidence that the product can cause cancer.

**General information** This product has low toxicity.

**Inhalation** Gas or vapour may irritate the respiratory system.

**Ingestion** Ingestion may cause severe irritation of the mouth, the oesophagus and the gastrointestinal tract.

**Skin contact** May cause serious chemical burns to the skin.

**Eye contact** A single exposure may cause the following adverse effects: Corneal damage.

**Acute and chronic health hazards** Gas (chlorine), emitted under fire or acidic conditions, is toxic by inhalation.

## SECTION 12: Ecological Information

**Ecotoxicity** There are no data on the ecotoxicity of this product.

### 12.1. Toxicity

**Toxicity** Concentrations greater than 10ppm or pH value greater than 10.5 may be fatal to fish and other aquatic organisms.

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**Acute toxicity - aquatic plants** Can cause damage to aquatic plants.

**Acute toxicity - terrestrial** Can cause damage to vegetation.

## 12.2. Persistence and degradability

**Persistence and degradability** This product contains inorganic compounds which are not biodegradable. Reacts with organic substances in soil and sediments and degrades rapidly to chloride salts. Substantially removed in biological treatment processes.

## 12.3. Bioaccumulative potential

**Bioaccumulative potential** The product is not bioaccumulating.

## 12.4. Mobility in soil

**Mobility** The product is water-soluble and may spread in water systems.

## 12.5. Results of PBT and vPvB assessment

**Results of PBT and vPvB assessment** This product does not contain any substances classified as PBT or vPvB.

## 12.6. Other adverse effects

**Other adverse effects** There is evidence that sodium hypochlorite inhibits the aerobic treatment process at a concentration of 0.05 mg/l.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

**General information** Waste is classified as hazardous waste. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. When handling waste, the safety precautions applying to handling of the product should be considered.

**Disposal methods** Dispose of via an authorised and appropriately licensed waste contractor. Packaging is recyclable. Wash out containers with water before disposal.

**Waste class** EWC Code: 06 02 04

## SECTION 14: Transport information

### 14.1. UN number

**UN No. (ADR/RID)** 1791

**UN No. (IMDG)** 1791

**UN No. (ICAO)** 1791

### 14.2. UN proper shipping name

**Proper shipping name (ADR/RID)** HYPOCHLORITE SOLUTION

**Proper shipping name (IMDG)** HYPOCHLORITE SOLUTION

**Proper shipping name (ICAO)** HYPOCHLORITE SOLUTION

**Proper shipping name (ADN)** HYPOCHLORITE SOLUTION

### 14.3. Transport hazard class(es)

**ADR/RID class** 8

**ADR/RID subsidiary risk**

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ADR/RID label	8
IMDG class	8
IMDG subsidiary risk	
ICAO class/division	8
ICAO subsidiary risk	

## Transport labels



## 14.4. Packing group

ADR/RID packing group	III
IMDG packing group	III
ICAO packing group	III

## 14.5. Environmental hazards

## 14.6. Special precautions for user

IMDG Code segregation group	8. Hypochlorites
EmS	F-A, S-B
Emergency Action Code	2X
Hazard Identification Number (ADR/RID)	80
Tunnel restriction code	(E)

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

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

## SECTION 15: Regulatory information

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

<b>National regulations</b>	The Control of Substances Hazardous to Health Regulations 2002 (SI 2002 No. 2677) (as amended). The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 (SI 2009 No. 1348) (as amended) ["CDG 2009"]. The Hazardous Waste Regulations 2005.
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## 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) (as amended).

Regulation (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) 1907/2006, Commission Directive 2000/39/EC of 8 June 2000 establishing a first list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work (as amended).

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 (as amended).

Commission Decision 2000/532/EC as amended by Decision 2001/118/EC establishing a list of wastes and hazardous waste pursuant to Council Directive 75/442/EEC on waste and Directive 91/689/EEC on hazardous waste with amendments.

## Guidance

Technical Guidance WM2: Hazardous Waste.

COSHH Essentials.

ECHA Guidance on the Application of the CLP Criteria.

ECHA Guidance on the compilation of safety data sheets.

Workplace Exposure Limits EH40.

## 15.2. Chemical safety assessment

A Chemical Safety Assessment (CSA) has been completed for Sodium hypochlorite.

## SECTION 16: Other information

### Abbreviations and acronyms used in the safety data sheet

EWC European Waste Catalogue

### General information

Only trained personnel should use this material.

### Revision date

26.10.2016

### Revision

2

### SDS number

20445

### Risk phrases in full

R31 Contact with acids liberates toxic gas.

R34 Causes burns.

R36/38 Irritating to eyes and skin.

R50 Very toxic to aquatic organisms.

### Hazard statements in full

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

H400 Very toxic to aquatic life.