

# SAFETY DATA SHEET Revision 5

## Sodium Hypochlorite - 5 - 20%

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

1.1 Product Identifier

Trade Name: Sodium Hypochlorite Solution 5 - 20%

1.2 Relevant Identified uses of the substance or mixture and uses advised against

Uses: Disinfection of Swimming Pool Water

1.3 Details of the supplier of the safety data sheet

Company: Deep Blue Pool Supplies

Box 8899 Hermitage, Corsham, SN13 8DT

Telephone: +44 (0) 3330 907094

Fax: +44 (0) 3330 907094

E-mail: <u>help@deepbluepoolsupplies.co.uk</u>

1.4 Emergency Telephone

Tel: +44 (0) 3330 907094 (office hours)

Tel: 111 (Out of hours)

### 2. Hazard Identification

# 2.1 Classification of the substance or mixture

#### Classification according to Regulation (EC) No 1272/2008

Met. Corr 1 H290 Skin Corrosion 1B H314 Acute Aquatic 1 H400 Aquatic Chronic H411

For the full text of the H statements mentioned in this section see Section 16.

#### **Human health**

Vapours may irritate the respiratory system and cause coughing, asthmatic breathing and breathlessness. Corrosive to skin and eyes.

#### **Environment**

The product contains a substance which is very toxic to aquatic organisms.

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

Contact with acids liberates toxic chlorine gas Product may be corrosive to some metals

### 2.2 Label elements

## Labelling according to Regulation (EC) No 1272/2008

Hazard statements: 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.

Signal word: Danger

Hazard pictograms: GHS05: Corrosion

GHS09: Environmental





**Sodium Hypochlorite 5 - 20%** Trade Name:

### 2. Hazard Identification

Precautionary statements:

P273: Avoid release to the environment

P280: Wear protective gloves/protective clothing/eye protection/face protection

P303+361+353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water

P304+340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+351+338: IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing

P310: Immediately call a POISON CENTER or doctor/physician.

P403+235: Store in a well-ventilated place. Keep cool.

**Supplementary Precautionary Statements:** 

P260: Do not breathe vapours

P264: Wash contaminated skin thoroughly after handling.

P301+330+331: IF SWALLOWED: rinse mouth. Do NOT induce vomiting

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.

# 3. Composition/information on ingredients

#### 3.1 Mixture

**CLP Classification EINECS** CAS Percent

SODIUM HYDROXIDE

215-185-5 1310-73-2 | Met.Corr.1: H290; Skin Corr. 1A: H314; Eye Dam. 1: H318 0.1-1.0%

SODIUM HYPOCHLORITE

**EINECS** CAS PBT / WEL **CLP Classification** Percent

Skin Corr. 1B: H314; Aquatic Acute 1: H400; Aquatic 231-668-3 7681-52-9 5-20% Chronic 2: H411; -: EUH031

## 4. First Aid measures

### 4.1 Description of first aid measures

Get medical attention immediately! General information

Inhalation: Move the exposed person to fresh air at once. For breathing difficulties oxygen may be necessary.

Ingestion: Do not induce vomiting. If confined to the mouth, rinse mouth thoroughly and ensure water is not

swallowed. If swallowed, drink plenty of water. If substance has been swallowed, give water to drink

immediately

Remove contaminated clothes and rinse skin thoroughly with water. Skin contact

Check for and remove any contact lenses. Open eyes wide apart. Rinse opened eye with plenty of

Eye contact: water for at least 15 minutes. Get medical attention.

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

No information available. Symptoms and effects:

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

Treat symptomatically Treatment

Trade Name: **Sodium Hypochlorite 5 - 20%** 

#### 5. Fire fighting measures

5.1 Extinguishing media:

Use fire-extinguishing media appropriate for surrounding materials. Extinguishing media:

5.2 Special hazards arising from the substance or mixture

Thermal decomposition will evolve Chlorine. Contact with heavy metals, their compounds and alloys Haz. comp. products:

the product decomposes with evolution of oxygen.

5.3 Advice for fire-fighters

Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and Advice for fire-fighters:

#### 6. Accidental release Measures

## 6.1 Personal precautions, protective equipment and emergency procedures

Personal Precautions: Wear protective clothing as described in Section 8 of this safety data sheet.

#### 6.2 Environmental precautions

Environmental precautions: Do not discharge into drains or rivers. Contain the spillage using bunding.

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

Clean-up procedures: Flush away small spillages with plenty of water. Large Spillages: Absorb with sand or other inert

absorbent. Pick up with vacuum or absorbent solid, store in closed container for disposal.

container for disposal by an appropriate method.

#### 6.4 Reference to other sections

Refer to section 8 of SDS for personal protection details.

## 7. Handling and storage

#### 7.1 Precautions for safe handling

Handling requirements Avoid contact with eyes. Handle with care as an alkaline material. Wear appropriate protective

clothing. Avoid inhalation of vapours and spray mists. Do not mix with acids, or other cleaning

fluids (especially ammonia). Do not mix with sodium bisulfite

# 7.2 Conditions for safe storage, including any incompatibilities.

Unsuitable containers: metals. Store in vented vessels of rubber lined mild steel or HDPE. Storage conditions:

> Uncontrolled pressure build up may occur in closed systems (vessels, pipes etc.) so all containers must have a venting device. Sludge may build up in tanks over time, due to salt deposition. Keep away from acids, ammonia solutions, amines and methanol. Keep away from from heat and direct sunlight.

7.3 Specific end uses

Specific use(s) No information available

# 8. Exposure control/personal protection

# 8.1 Control parameters

Hazardous ingredients: SODIUM HYDROXIDE

Workplace exposure limits: Respirable dust

State	8 hour TWA	15 min.STEL	8 hour TWA	15 min.STEL
UK	-	2 mg/m <sup>3</sup>	-	-

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### 8. Exposure control/personal protection

#### 8.2 Exposure controls

Process conditions Provide eyewash station.

Engineering measures Provide adequate general and local exhaust ventilation

Respiratory protection Self-contained breathing apparatus must be available in case of emergency.

For respirator use cartridge type P3 SL

Hand protection Wear protective gloves. Rubber or plastic. Eye protection Tightly fitting safety goggles / face shield.

Skin protection Plastic apron, sleeves, boots - if handling large quantities, full body suit.

### 9. Physical and chemical properties

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

State: Liquid
Colour: Yellow-green
Odour: Irritating. Chlorine

Solubility in water: Soluble

Initial boiling point and boiling range: 110°C Decomposes with heat

Melting point/range°C: -17°C Relative density: 5% 1.10

15% 1.26

20%

pH: >13

**9.2 Other Information** No data available

### 10. Stability and reactivity

## 10.1 Reactivity

Reactivity Violent reaction with acids: Sodium bisulfite

10.2 Chemical stability

Chemical stability Avoid contact with acids

#### 10.3 Possibility of hazardous reactions

Hazardous reactions: Contact with acids liberates toxic chlorine gas. Reacts with amines and ammonia to form explosive

compounds, and can react violently with methanol. Reacts strongly with sodium bisulfite

10.4 Conditions to avoid

Conditions to avoid Store in a cool dry place away from direct sunlight.

10.5 Incompatible materials

Materials to avoid Contact with acids liberates toxic chlorine gas. Decomposition with evolution of oxygen is accelerated

by heat and light, and also by contact with metals, particularly copper, nickel, iron and monel.

### 10.6 Hazardous decomposition products

Haz. decomp. products: Thermal decomposition will evolve toxic vapours.

### 11. Toxilogical Information

#### 11.1 Information on toxilogical effects

### **Toxicity values:**

Route	Species	Test Value		Units
ORAL	MUS	LD50	2,900 - 3,400	mg/kg
VAPOURS	RAT	LD50	>10.5	mg/kg
DERMAL	RBT	LD50	>2,000	mg/kg

#### **Hazardous Ingredients:**

SODIUM HYPOCHLORITE SOLUTION...100% CL ACTIVE

ORL	MUS	LD50	5800	mg/kg
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#### SODIUM HYDROXIDE

IPR	MUS	LD50	40	mg/kg
ORL	RBT	LDLO	500	mg/kg

#### Relevant effects for substance:

Hazard	Route	Basis
Skin corrosion/irritation	DRM	Hazardous: calculated
Serious eye damage/irritation	OPT	Hazardous: calculated

## Symptoms / routes of exposure

Skin contact: Blistering may occur. Progressive ulceration will occur if treatment is not immediate.

Eye contact: Corneal burns may occur. May cause permanent damage.

Ingestion: Corrosive burns may appear around the lips. Blood may be vomited. There may be

bleeding from the mouth or nose.

Inhalation: There may be shortness of breath with a burning sensation in the throat. Exposure may

cause coughing or wheezing.

### 12. Ecological Information

## 12.1 Toxicity

## **Ecotoxicity values:**

Species	Test	Value	Units
Daphnia magna	96H ErC50	2.1	mg/l
GREEN ALGA (Selenastrum capricornutum)	48H EC50	28	mg/l

### 12.2 Persistence and degradability

Persistence and degradability:

The methods for determining the biological degradability are not applicable to inorganic substances

# 12.3 Bioaccumlative potential

Bioaccumlative potential: No bioaccumulation potential

12.4 Mobility in soil

Mobility: Readily absorbed into soil.

## 12.5 Results of PBT and PvB assessment

**PBT identification:** This product is not identified as a PBT/vPvB substance

12.6 Other adverse effects

Other adverse effects Toxic to aquatic organisms.

Trade Name: Sodium Hypochlorite 5 - 20%

### 13. Disposal Considerations

#### 13.1 Waste treatment methods

Disposal operations: Transfer to a suitable container and arrange for collection by specialised disposal

company

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

#### 14. Transport Information

#### 14.1 UN Number

UN Number UN1791

### 14.2 UN proper shipping name

Shipping Name: HYPOCHLORITE SOLUTION

(SODIUM HYPOCHLORITE SOLUTION)

### 14.3 Transport hazard class(es)

Transport class: 8

#### 14.4 Packing Group

Packing Group III

#### 14.5 Environmental hazards

Environmentally hazardous: Yes Marine pollutant: Yes

#### 14.6 Special precautions for user

Special precautions: No special precautions.

Tunnel code: E Transport category: 3

#### 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Transport in bulk: Not applicable

## 15. Regulatory information

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

Specific regulations: Not applicable

#### 15.2 Chemical Safety Assessment

Chemical Safety Assessment A chemical safety assessment has not been carried out for the substance or the mixture.

## 16. Other information

Other information: This safety data sheet is prepared in accordance with Commission Regulation (EU) No

453/2010.

Phrases used in s.2 and s.3: EUH031 Contact with acids liberates toxic gas.

H314 Causes severe skin burns and eye damage

H400 Very toxic to aquatic life.

This information is believed to be accurate and represents the best information currently available to us. However, we make no warranty or merchantability, or fitness for any particular use, or any other warranty, express or implied, with respect to this information, and we assume no liability resulting from use of this information Users should make their own investigations to determine the suitability of the information for their particular needs and uses.

Indicates updated section.