



## SAFETY DATA SHEET

### Sodium Hypochlorite

#### 1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

PRODUCT NAME	Sodium Hypochlorite
SYNONYMS, TRADE NAMES	Bleach, , Hypo, , Everchlor, , Chloros, , Hispec, , Bridos, , Bleacol, , Vo-redox 9110,
SUPPLIER	UNIVAR LTD 46 Peckover Street BRADFORD West Yorkshire United Kingdom BD1 5BD Tel: +44 1274 377000 Fax: +44 1274 377001 sds@univareurope.com
SDS No.	S024
Emergency Contact Number (Office Hours)	+441274 377070
Emergency Contact Number (Outside Office Hours)	+441865 407333

#### 2 HAZARDS IDENTIFICATION

Causes burns. Contact with acids liberates toxic gas.

CLASSIFICATION C;R34. R31.

#### 3 COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Content	Classification
SODIUM HYPOCHLORITE SOLUTION, ... % Cl ACTIVE	231-668-3	7681-52-9	10-25%	C;R34 R31 N;R50

The Full Text for all R-Phrases are Displayed in Section 16

#### 4 FIRST-AID MEASURES

##### INHALATION

Remove victim immediately from source of exposure. Keep the affected person warm and at rest. Get prompt medical attention.

##### INGESTION

NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS! Rinse mouth thoroughly. Get medical attention immediately!

##### SKIN CONTACT

Remove affected person from source of contamination. Remove contaminated clothing. Wash the skin immediately with soap and water. Get medical attention promptly if symptoms occur after washing.

##### EYE CONTACT

Remove victim immediately from source of exposure. Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Get medical attention immediately. Continue to rinse.

#### 5 FIRE-FIGHTING MEASURES

##### EXTINGUISHING MEDIA

This product is not flammable. Use fire-extinguishing media appropriate for surrounding materials.

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## Sodium Hypochlorite

### SPECIFIC HAZARDS

Chlorine. Oxygen.

### PROTECTIVE MEASURES IN FIRE

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

## 6 ACCIDENTAL RELEASE MEASURES

### PERSONAL PRECAUTIONS

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

### ENVIRONMENTAL PRECAUTIONS

Do not allow ANY environmental contamination. Spillages or uncontrolled discharges into watercourses must be IMMEDIATELY alerted to the Environmental Agency or other appropriate regulatory body.

### SPILL CLEAN UP METHODS

DO NOT TOUCH SPILLED MATERIAL! Stop leak if possible without risk. Absorb in vermiculite, dry sand or earth and place into containers. Flush with plenty of water to clean spillage area.

## 7 HANDLING AND STORAGE

### USAGE PRECAUTIONS

Avoid spilling, skin and eye contact.

### STORAGE PRECAUTIONS

Store in tightly closed original container in a dry, cool and well-ventilated place. Keep in original container.

### STORAGE CLASS

Corrosive storage.

## 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

### INGREDIENT COMMENTS

WEL = Workplace Exposure Limits

### PROTECTIVE EQUIPMENT



### PROCESS CONDITIONS

Provide eyewash, quick drench.

### ENGINEERING MEASURES

Provide adequate ventilation. Observe Workplace Exposure Limits and minimise the risk of inhalation of vapours.

### RESPIRATORY EQUIPMENT

No specific recommendation made, but respiratory protection may still be required under exceptional circumstances when excessive air contamination exists.

### HAND PROTECTION

Use suitable protective gloves if risk of skin contact.

### EYE PROTECTION

If risk of splashing, wear safety goggles or face shield.

### OTHER PROTECTION

Wear appropriate clothing to prevent any possibility of skin contact.

### HYGIENE MEASURES

DO NOT SMOKE IN WORK AREA! Wash at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes wet or contaminated. Promptly remove any clothing that becomes contaminated. When using do not eat, drink or smoke.

## 9 PHYSICAL AND CHEMICAL PROPERTIES

### APPEARANCE

Liquid

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**Sodium Hypochlorite**

COLOUR	Green yellow		
SOLUBILITY	Completely soluble in water		
BOILING POINT (°C)	>100	MELTING POINT (°C)	-17
RELATIVE DENSITY	1.20 - 1.27	pH-VALUE, CONC. SOLUTION	>12

**10 STABILITY AND REACTIVITY**

## STABILITY

Stable under normal temperature conditions.

## CONDITIONS TO AVOID

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

## MATERIALS TO AVOID

Strong acids. Ammonia or amines. Hydrocarbons.

## HAZARDOUS DECOMPOSITION PRODUCTS

Fire creates: Chlorine.

**11 TOXICOLOGICAL INFORMATION**

TOXIC DOSE 1 - LD 50                      8910 mg/kg (oral rat)

## INHALATION

May cause damage to mucous membranes in nose, throat, lungs and bronchial system.

## INGESTION

May cause burns in mucous membranes, throat, oesophagus and stomach.

## SKIN CONTACT

May cause serious chemical burns of the skin.

## EYE CONTACT

Causes burns.

**12 ECOLOGICAL INFORMATION**

## MOBILITY

The product is soluble in water.

**13 DISPOSAL CONSIDERATIONS**

## GENERAL INFORMATION

Do not puncture or incinerate even when empty.

## DISPOSAL METHODS

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

**14 TRANSPORT INFORMATION**

UK ROAD CLASS	8		
PROPER SHIPPING NAME	SODIUM HYPOCHLORITE SOLUTION, ... % CI ACTIVE		
UN NO. ROAD	1791	UK ROAD PACK GR.	III
ADR CLASS NO.	8	ADR CLASS	Class 8: Corrosive substances.
ADR PACK GROUP	III	ADR LABEL NO.	8
HAZCHEM CODE	2X	RID CLASS NO.	8

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**Sodium Hypochlorite**

RID PACK GROUP	III	UN NO. SEA	1791
IMDG CLASS	8	IMDG PACK GR.	III
MARINE POLLUTANT	No.	UN NO. AIR	1791
AIR CLASS	8	AIR PACK GR.	III

**15 REGULATORY INFORMATION**

## LABELLING



Corrosive

CONTAINS SODIUM HYPOCHLORITE SOLUTION, ... % CI ACTIVE

## RISK PHRASES

R31 Contact with acids liberates toxic gas.  
 R34 Causes burns.

## SAFETY PHRASES

P6 Warning! Do not use with other products. May release dangerous gases (chlorine).  
 S1/2 Keep locked up and out of the reach of children.  
 S28 After contact with skin, wash immediately with plenty of water.  
 S45 In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).  
 S50 Do not mix with acid.

## STATUTORY INSTRUMENTS

Chemicals (Hazard Information and Packaging) Regulations.

## APPROVED CODE OF PRACTICE

Safety Data Sheets for Substances and Preparations. Classification and Labelling of Substances and Preparations Dangerous for Supply.

## GUIDANCE NOTES

Workplace Exposure Limits EH40. CHIP for everyone HSG(108).

**16 OTHER INFORMATION**

REVISION DATE 9th August 2007

REV. NO./REPL. SDS GENERATED 07

SDS NO. S024

## SAFETY DATA SHEET STATUS

Approved.

DATE 9th August 2007

SIGNATURE Jitendra Panchal

## RISK PHRASES IN FULL

R31 Contact with acids liberates toxic gas.  
 R34 Causes burns.  
 R50 Very toxic to aquatic organisms.