SAFETY DATA SHEET

SODIUM HYPOCHLORITE SOLUTION 14-15% (CL ACTIVE)

Compilation date: 17/03/2010

Revision date: 24/08/2021

Revision No: 6

Section 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name: SODIUM HYPOCHLORITE SOLUTION 14-15% (CL ACTIVE)

REACH registered number(s): 01-2119488154-34-XXXX

CAS number: 7681-52-9

EINECS number: 231-668-3

Index number: 017-011-00-1

Product code: 047-RM

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

Use of substance / mixture: PC37: Water treatment chemicals. PC34: Textile dyes, finishing and impregnating products; including bleaches and other processing aids. PC35: Washing and cleaning products (including solvent based products). NOT to be used with acids. A disinfectant to kill germs of all types, also destroying stains and odours.

1.3. Details of the supplier of the safety data sheet

Company name: Multex Chemicals Ltd.
Multex House
Cannon Street
HULL
East Yorkshire
HU2 OAB

Tel: 01482 320432

Fax: 01482 321777

Email: info@multexchemicals.co.uk

1.4. Emergency telephone number

Emergency tel: 01482 320432
(office hours only)

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Classification under CLP: Skin Corr. 1B: H314; Aquatic Acute 1: H400; Met. Corr. 1: H290; -: EUH031

Most important adverse effects: Contact with acids liberates toxic gas. Causes severe skin burns and eye damage. Very toxic to aquatic life. May be corrosive to metals.

[cont...]

2.2. Label elements

Label elements:

Hazard statements: EUH031: Contact with acids liberates toxic gas.

H314: Causes severe skin burns and eye damage.

H400: Very toxic to aquatic life.

H290: May be corrosive to metals.

Hazard pictograms: GHS05: Corrosion

GHS09: Environmental

Signal words: Danger

Precautionary statements: P260: Do not breathe mist/spray.

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

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P315: Get immediate medical advice/attention.

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 .

P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P309+P311: IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.

P363: Wash contaminated clothing before reuse.

P390: Absorb spillage to prevent material damage.

P403+P233: Store in a well-ventilated place. Keep container tightly closed.

P273: Avoid release to the environment.

2.3. Other hazards

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

Section 3: Composition/information on ingredients

3.2. Mixtures

Hazardous ingredients:

[cont...]

SODIUM HYPOCHLORITE SOLUTION...CL ACTIVE - REACH registered number(s): 01-2119488154-34-XXXX

EINECS	CAS	PBT / WEL	CLP Classification	Percent
231-668-3	7681-52-9	-	Skin Corr. 1B: H314; Aquatic Acute 1: H400; -: EUH031	10-30%

Section 4: First aid measures

4.1. Description of first aid measures

Skin contact: Remove all contaminated clothes and footwear immediately unless stuck to skin. Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. Transfer to hospital if there are burns or symptoms of poisoning.

Eye contact: Bathe the eye with running water for 15 minutes. Transfer to hospital for specialist examination.

Ingestion: Wash out mouth with water. Do not induce vomiting. Give 1 cup of water to drink every 10 minutes. If unconscious, check for breathing and apply artificial respiration if necessary. If unconscious and breathing is OK, place in the recovery position. Transfer to hospital as soon as possible.

Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so. If unconscious and breathing is OK, place in the recovery position. If conscious, ensure the casualty sits or lies down. If breathing becomes bubbly, have the casualty sit and provide oxygen if available. Transfer to hospital as soon as possible.

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

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

Eye contact: The eyes may water profusely. There may be severe pain. 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.

Delayed / immediate effects: Immediate effects can be expected after short-term exposure.

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

Immediate / special treatment: Show this safety data sheet to the doctor in attendance. Eye bathing equipment should be available on the premises.

Section 5: Fire-fighting measures

5.1. Extinguishing media

Extinguishing media: This product itself is not flammable. Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers.

[cont...]

5.2. Special hazards arising from the substance or mixture

Exposure hazards: Corrosive. In combustion emits toxic fumes.

5.3. Advice for fire-fighters

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

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Do not attempt to take action without suitable protective clothing - see section 8 of SDS. Turn leaking containers leak-side up to prevent the escape of liquid. Remove all incompatible materials as outlined in section 10 of SDS. Mark out the contaminated area with signs and prevent access to unauthorised personnel.

6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up

Clean-up procedures: Avoid all incompatible materials in clean-up procedure - see section 10 of SDS. Clean-up should be dealt with only by qualified personnel familiar with the specific substance. For small spillages, flush to a foul water drain with plenty of water. For large spillages Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

6.4. Reference to other sections

Reference to other sections: Refer to section 8 of SDS.

Section 7: Handling and storage

7.1. Precautions for safe handling

Handling requirements: Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area. Avoid the formation or spread of mists in the air.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store in a cool, well ventilated area. Store container upright. Keep away from direct sunlight. Store away from food and drink. Avoid incompatible materials and conditions - see section 10 of SDS.

Suitable packaging: Must only be kept in original packaging.

7.3. Specific end use(s)

Section 8: Exposure controls/personal protection

[cont...]

8.1. Control parameters

Workplace exposure limits: **Respirable dust**

State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
UK	-	2mg/m3	-	-

DNEL/PNEC Values

DNEL / PNEC No data available.

8.2. Exposure controls

Engineering measures: Ensure there is sufficient ventilation of the area. The floor of the storage room must be impermeable to prevent the escape of liquids.

Respiratory protection: If ventilation is poor, Suitable respiratory protection may be required. Gas/vapour filter, type E: sulphur dioxide and other acid gases (EN141). Self-contained breathing apparatus must be available in case of emergency.

Hand protection: Impermeable gloves. Breakthrough time of the glove material > 8 hours.

Eye protection: Safety goggles. Tightly fitting safety goggles. Ensure eye bath is to hand.

Skin protection: Impermeable protective clothing. Alkali resistant protective clothing.

Environmental: Ensure all engineering measures mentioned in section 7 of SDS are in place.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State: Liquid

Colour: Yellow-green

Odour: Characteristic odour

Oxidising: Oxidising (by EC criteria)

Solubility in water: Soluble

Viscosity: Non-viscous

Boiling point/range°C: >100 **Melting point/range°C:** -17

Flash point°C: n/a **Part.coeff. n-octanol/water:** -3.42

Relative density: 1.20-1.27 **pH:** >11

9.2. Other information

Other information: No data available.

Section 10: Stability and reactivity

10.1. Reactivity

Reactivity: Stable under recommended transport or storage conditions. Reactive substance that can react with many inorganic and organic compounds. Reacts Violently with Acids.

[cont...]

10.2. Chemical stability

Chemical stability: Decomposes slowly over time. Stability is maximised when stored as recommended. Inadequately vented/stored containers may become pressurised.

10.3. Possibility of hazardous reactions

Hazardous reactions: Decomposition may occur on exposure to conditions or materials listed below. Contact with acids liberates toxic chlorine gas.

10.4. Conditions to avoid

Conditions to avoid: Heat. Direct sunlight. Light.

10.5. Incompatible materials

Materials to avoid: Strong oxidising agents. Strong acids. Nickel. Copper. Iron. Organic materials. Aluminium.

10.6. Hazardous decomposition products

Haz. decomp. products: In combustion emits toxic fumes.

Section 11: Toxicological information

11.1. Information on toxicological effects

Toxicity values:

Route	Species	Test	Value	Units
DERMAL	RBT	LD50	>2000	mg/kg

Hazardous ingredients:

SODIUM HYPOCHLORITE SOLUTION...CL ACTIVE

ORL	MUS	LD50	5800	mg/kg

Relevant hazards for product:

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: The eyes may water profusely. There may be severe pain. 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.

[cont...]

Delayed / immediate effects: Immediate effects can be expected after short-term exposure.

Section 12: Ecological information

12.1. Toxicity

Ecotoxicity values:

Species	Test	Value	Units
FISH	96H LC50	0.06	mg/l

Hazardous ingredients:

SODIUM HYPOCHLORITE SOLUTION...CL ACTIVE

FISH	96H LC50	0.06	ml/l

12.2. Persistence and degradability

Persistence and degradability: Rapidly degrades to Sodium Chloride by chemical reaction with organic matter in effluent.

12.3. Bioaccumulative potential

Bioaccumulative potential: No bioaccumulation potential.

12.4. Mobility in soil

Mobility: Readily absorbed into soil. Soluble in water.

12.5. Results of PBT and vPvB assessment

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

12.6. Other adverse effects

Other adverse effects: Very toxic to aquatic organisms. Expected to be removed by normal sewage treatment processes. We have not carried out any Aquatic testing, therefore we have no Aquatic Toxicity Data for this specific product. Aquatic Toxicity Data, where provided, relates to ingredients only and can be made available on request from the supplier.

Section 13: Disposal considerations

13.1. Waste treatment methods

Disposal operations: For small amounts Used or surplus material may be discharged to a sewage drain with large volumes of water. To dispose of large quantities, Transfer to a suitable container and arrange for collection by specialised disposal company.

Disposal of packaging: Clean with water. Dispose of as normal industrial waste. Packaging is recyclable. May be reused following decontamination.

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

[cont...]

Section 14: Transport information

14.1. UN number

UN number: UN1791

14.2. UN proper shipping name

Shipping name: 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:** No

14.6. Special precautions for user

Tunnel code: E

Transport category: 3

Section 15: Regulatory information

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

Specific regulations: Not applicable.

15.2. Chemical Safety Assessment

Chemical safety assessment: A chemical safety assessment has been carried out for the substance or the mixture by the supplier.

Section 16: Other information

Other information

Other information: This safety data sheet is prepared in accordance with Commission Regulation (EU) No 2015/830.

* indicates text in the SDS which has changed since the last revision.

Phrases used in s.2 and s.3: 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.

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.