

Conforms to 93/112/EC and ISO 11014-1 - United Kingdom (UK)

SAFETY DATA SHEET

SODIUM HYPOCHLORITE 10% - 15% (ALL GRADES)

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

Product name : SODIUM HYPOCHLORITE 10% - 15% (ALL GRADES) **Supplier** : Accepta Limited
Statham House
Talbot Road
Manchester
M32 0FP

Chemical product name : SODIUM HYPOCHLORITE 10% - 15% (ALL GRADES)

Synonyms : BLEACH

EMERGENCY ONLY TELEPHONE NUMBER : (0161) 877 2334 **Telephone No.** (0161) 877 2334

Formula : NaOCl **Fax No.** (0870) 135 6389
Molecular Mass : 74.44

2. Composition/information on ingredients

Substance/Preparation : Substance

Chemical name*	CAS No.	%	EC Number	Symbol	R-Phrases
1) SODIUM HYPOCHLORITE	7681-52-9	10-15	231-668-3	C, N	R31, R34, R50
2) SODIUM HYDROXIDE	1310-73-2	0-5	215-185-5	C	R35

* Occupational Exposure Limit(s), if available, are listed in Section 8

Composition CONTAINS SODIUM HYPOCHLORITE AT SPECIFIED MASS CONCENTRATION.
INDUSTRIAL GRADE MAY BE COLOURED BY ADDITION OF TRACE QUANTITIES OF POTASSIUM PERMANGANATE.
MAY ALSO CONTAIN STABILISERS SUCH AS SODIUM CHLORATE OR SODIUM HEXAMETAPHOSPHATE, DEPENDING ON GRADE.
SPECIFICATION WILL BE GIVEN ON REQUEST

CAS No. 7681-52-9

EINECS Number 231-668-3

3. Hazards identification

Human health hazards : Contact with acids liberates toxic gas.
Causes burns.

Environmental hazards : Very toxic to aquatic organisms.

4. First-aid measures

First-Aid measures

Inhalation : Remove from exposure. Keep warm and at rest. If there is difficulty in breathing, give oxygen. Do not use mouth to mouth ventilation. Obtain medical attention urgently.

Ingestion : Wash out mouth with water. Have victim drink 240-300ml of water to dilute stomach contents. Obtain medical attention. Do not induce vomiting.

Skin contact : Immediately flood the skin with large quantities of water, preferably under a shower. Remove contaminated clothing as washing proceeds. Contaminated clothing should be washed or dry-cleaned before re-use. Obtain medical attention if blistering occurs or redness persists.

Eye Contact : Immediately flood the eye with plenty of water for at least 10 minutes, holding the eye open. Obtain medical attention urgently.

Effects and symptoms

Inhalation : Exposure to vapour at high concentrations may have the following effects:- bronchitis. pulmonary oedema.

Ingestion : Swallowing may have the following effects:- nausea. vomiting. diarrhoea. drowsiness. loss of consciousness. haematemesis. perforation of the oesophagus. gastric perforation.

Skin contact : Corrosive to skin on contact. Skin contact may produce burns.

Eye Contact : Corrosive to eyes.

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- Aggravating conditions** : Repeated or prolonged contact with spray mist may produce chronic eye irritation and severe skin irritation. Repeated or prolonged exposure to spray mist may produce respiratory tract irritation, leading to frequent attacks of bronchial infection.
- Notes to physician** : Lung oedema symptoms may usually develop several hours after exposure and is aggravated by physical exertion Rest and hospitalisation is essential. As first aid, a doctor should consider administering a corticosteroid spray.

5. Fire-fighting measures

Extinguishing Media

- Suitable** : Select extinguishing agent appropriate to other materials involved. Use water spray. Keep containers and surroundings cool with water spray.
- Unusual fire/explosion Hazards** : This product may give rise to hazardous fumes in a fire. Can be violent and explosively reactive when in contact with ammonia and oxidizing agents-see stability and reactivity. Hazardous Combustion Products : CHLORINE OXYGEN
- Hazardous thermal (de)composition products** : Reacts with acids generating: Chlorine gas
- Special fire-fighting procedures** : Fire fighters should wear self-contained positive pressure breathing apparatus (SCBA) and full turnout gear.
- Protection of fire-fighters** : Wear full protective clothing and self-contained breathing apparatus.

6. Accidental release measures

- Personal Precautions** : Ventilate the area to dispel toxic decomposition fumes - Wear appropriate protective clothing. Eliminate all sources of ignition. Wear respiratory protection.
- Environmental precautions and cleanup methods** : Small spillages may be flushed with large quantities of water. Large spillages should be collected for disposal. Contain and absorb using earth, sand or other inert material.
: Advise Authorities if spillage has entered water course or sewer or has contaminated soil or vegetation.

7. Handling and storage

- Handling** : Use in well ventilated area. Emergency shower and eye wash facilities should be readily available. Avoid contact with eyes, skin and clothing. Avoid inhaling vapour.
- Storage** : Storage area should be: cool, dry, well ventilated and out of direct sunlight.
Storage tanks should be completely enclosed apart from vent and overflow connections.
Store in externally reinforced pvc, high density polyethylene or carbon steel lined with a suitable grade of rubber.
Suitable storage materials are:- plastic lined steel.
Do not store in:- metal drums.
- Packaging materials**
- Recommended use** : Use original container.

8. Exposure controls/personal protection

- Engineering measures** : Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapours below their respective threshold limit value. Ensure that eyewash stations and safety showers are close to the workstation location.
- Hygiene measures** : Wash hands after handling compounds and before eating, smoking, using lavatory, and at the end of day.

<u>Ingredient Name</u>	<u>Workplace Exposure Limits</u>
1) CHLORINE	EH40 (United Kingdom (UK)). STEL: 0.5 ppm STEL: 1.5 mg/m ³

Personal protective equipment

- Respiratory system** : Respiratory protection if there is a risk of exposure to high vapour concentrations.
- Skin and body** : Wear: hood and visor. rubber boots. If there is danger of splashing, wear: PVC or other impermeable suit.
- Hands** : PVC or rubber gloves.
- Eyes** : Chemical goggles.

9. Physical and chemical properties

- Physical state** : Liquid.
- Colour** : Yellow. - Green.
- Odour** : Faintly chlorinous.
- Boiling point** : 110°C (230°F)
- Melting point** : -17°C (1.4°F)
- Density** : 1.2 to 1.3 g/cm³
- Vapour density** : Heavier than air.
- Solubility** : Completely soluble.
- pH** : >11 [Basic.]

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Flash point	: Not available.
Viscosity	: 3.45 cP AT 20°C (15%sol)

10. Stability and reactivity

Stability	: Sodium hypochlorite solutions decompose slowly on standing, with the production of sodium chlorate and sodium chloride and the evolution of oxygen. This process is accelerated by heat and exposure to light as well as contamination by certain metals.
Conditions to Avoid	: Exposure to light. High temperatures. Temperatures less than -5 C
Materials to avoid	: Organic materials. Acids. Amines. Peroxides. Alcohols. Aldehydes. Unsaturated oils. Oxidising agents. Ammonia. Ammonium salts. Iron. Copper. Nickel. Brass. Steel.
Hazardous decomposition products	: Reacts with acids generating: Chlorine gas

11. Toxicological information

Local effects

Skin irritation	: Hazardous in case of skin contact (corrosive).
Eye irritation	: Hazardous in case of eye contact (corrosive).
Acute toxicity	: Oral LD50 (rat) 5000mg/kg. (12.5%)
Chronic toxicity	: Repeated or prolonged contact with spray mist may produce chronic eye irritation and severe skin irritation. Repeated or prolonged exposure to spray mist may produce respiratory tract irritation, leading to frequent attacks of bronchial infection.

12. Ecological information

Ecotoxicity	: Ecotoxicity in water: (LC50): 0.01 to 0.1 mg/l, 96 hours [Fish]. (Active chlorine/l according to species) (EC50): 0.01 to 0.1 mg/l, 48 hours [Daphnia]. (Active chlorine/l according to species) Very toxic to aquatic organisms.
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13. Disposal considerations

Methods of disposal ; Waste of residues ; Contaminated packaging	: Dispose of in accordance with all applicable local and national regulations.
Waste Classification	: Not applicable.

14. Transport information


International transport regulations

UN :	UN number	1791
UN :	Proper shipping name	Hypochlorite solution.
UN :	Class	8
UN :	Packing group	III
UN :	Label	

ADR/RID :	Class	8
ADR/RID :	Hazard identification number	80
IMDG :	Packing group	III
IMDG :	Class	8
IATA :	Packing group	III
IATA :	Class	8

15. Regulatory information

EU Regulations

Hazard symbol(s)	:	
Classification	:	Corrosive, Dangerous for the environment
Risk Phrases	:	R31- Contact with acids liberates toxic gas. R34- Causes burns. R50- Very toxic to aquatic organisms.
Safety Phrases	:	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 the label where possible). S50- Do not mix with acids. S61- Avoid release to the environment. Refer to special instructions/Safety data sheets.
Contains	:	- SODIUM HYPOCHLORITE 10% - 15% (ALL GRADES)
Product Use	:	- Classification and labelling have been performed according to EU directives 67/548/EEC, 88/379/EEC, including amendments and the intended use. - Consumer applications.

16. Other information

HISTORY

Date of printing	:	29/03/2010.
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Date of previous issue	:	25/03/2010.
Version	:	6

Notice to Reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

CHANGES SINCE PREVIOUS VERSIONS:

Version 2:	Added pictogram and packing group data to section 14.
Version 3:	Section 15 - Added safety phrases.
Version 4:	Section 10 - Ammended stability information.
Version 5:	R50 added to classification. Exposure limits added.