

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

- 1. Identification of the substance/mixture and of the company/undertaking
- 1.1 Product identifier

Trade name/designation	Sodium hypochlorite in aqueous solution, 10-14% active chorine
Product No.	PRD5333
Substance name	Sodium hypochlorite in aqueous solution, 10-14% active chorine
CAS No.	7681-52-9
INDEX no.	017-011-00-1
REACH registration No.	Not yet communicated down the supply chain.
other means of identification	

- 1.2 Relevant identified uses of the substance or mixture and uses advised against
 - Relevant identified uses for laboratory use and chemical production.

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- 1.3 Details of the supplier of the safety data sheet

Supplier (manufacturer/importer/only representative/downstream user/distributor)

- Better Equipped, Wrenbury Business Park, Wrenbury Road, Wrenbury, Nantwich, Cheshire, CW5 8EB, UK Telephone +44 (0) 800 9707142 Fax +44 (0) 800 066 4443 E-mail address sales@betterequipped.co.uk
- 1.4 Emergency telephone

Telephone

+44 (0)1270 781238

- 2. Hazards identification
- 2.1 Classification of the substance or mixture

2.1.1 Classification according to Regulation (EC) No. 1272/2008 [CLP]

hazard classes and hazard categories	Hazard Statements	classification procedure	remark
Skin corrosion, category 1B	H314		

2.1.2 Classification according to Directive 67/548/EEC or 1999/45/EC

Hazard symbols: R-phrases	
	R31
С	R34
Ν	R50

2.2 Label elements

2.2.1 Labelling according to Regulation (EC) No. 1272/2008 [CLP]



Signal word

Danger

Hazard Statements

H314	Causes severe skin burns and eye damage.
H400	Very toxic to aquatic life.
EUH031	Contact with acids liberates toxic gas.

Precautionary statements

P280	Wear protective gloves/protective clothing/eye protection/face protection.
P273	Avoid release to the environment.
P301+P330+P331	IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P309+P310	IF exposed or if you feel unwell: Immediately call a POISON CENTER or doctor/physician.

2.2.2 Labelling (67/548/EEC or 1999/45/EC)

Hazard symbols:

C, N

R-phrases

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

S-phrases

S28	After contact with skin, wash immediately with plenty of (to be specified by the manufacturer).
S45	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
S50	Do not mix with (to be specified by the manufacturer).
S61	Avoid release to the environment. Refer to special instructions/safety data

sheets.

2.3 Other hazards

none

3. Composition/ Information on ingredients

Hazardous ingredients:

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Substance name	CAS No.	EC No	concentration	hazard classes and hazard categories
Sodium hypochlorite (SVHC = No)	7681-52-9	231-668-3		H314 - Skin corrosion, category 1B, H400 - Hazardous to the aquatic environment, acute, category 1

Hazardous ingredients: Classification according to 67/548/EEC

Substance name	CAS No.	EC No	concentration	Hazard symbols:	R-
					phrases
Sodium hypochlorite	7681-52-9	231-668-3	10,00 - 25,00%	C, N	31-34-
					50

Molecular formula	CINaO
Molecular weight (g/mol)	74.44 g/mol
CAS No.	7681-52-9
EC No	231-668-3
INDEX no.	017-011-00-1

4. First-aid measures

4.1 General information

IF exposed: Immediately call a POISON CENTER or doctor/ physician. If unconscious place in recovery position and seek medical advice. Never give anything by mouth to an unconscious person or a person with cramps. Change contaminated, saturated clothing. Do not leave affected person unattended.

4.2 After inhalation

Immediately call a POISON CENTER or doctor/ physician. Remove casualty to fresh air and keep warm and at rest. If breathing is irregular or stopped, administer artificial respiration.

4.3 In case of skin contact

After contact with skin, wash immediately with plenty of water and soap. Remove contaminated, saturated clothing immediately. Immediate medical treatment required because corrosive injuries that are not treated are hard to cure.

4.4 After eye contact

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Protect uninjured eye. Remove contact lenses, if present and easy to do. Continue rinsing.

4.5 After ingestion

Immediately call a POISON CENTER or doctor/ physician. Do not induce vomiting. Rinse mouth thoroughly with water. Give nothing to eat or drink.

4.6 Self-protection of the first aider

First aider: Pay attention to self-protection!

4.7 Information to physician:

Symptoms	No data available
Hazards	No data available
Treatment	No data available

5. Firefighting measures

5.1 Suitable extinguishing media

The product itself does not burn. Co-ordinate fire-fighting measures to the fire surroundings.

5.2 Extinguishing media which must not be used for safety reasons:

no restriction

5.3 Special hazards arising from the substance or mixture

In case of fire may be liberated: Hydrogen chloride (HCI) Nitrogen oxides (NOx) Sulphur oxides

5.4 Advice for firefighters

DO NOT fight fire when fire reaches explosives. In case of fire: Wear self-contained breathing apparatus.

5.5 Additional information

Do not allow run-off from fire-fighting to enter drains or water courses. Do not inhale explosion and combustion gases. Use caution when applying carbon dioxide in confined spaces. Carbon dioxide can displace oxygen. Use water spray jet to protect personnel and to cool endangered containers.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid generation of dust. Do not breathe dust/fume/gas/mist/vapours/spray. Provide adequate ventilation. Avoid contact with skin, eyes and clothes.

6.2 Environmental precautions

Do not allow to enter into surface water or drains.

6.3 Methods and material for containment and cleaning up

Spilled product must never be returned to the original container for recycling. Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Collect in closed and suitable containers for disposal.

6.4 Additional information

Clear spills immediately.

7. Handling and storage

7.1 Precautions for safe handling

Avoid: Inhalation. Avoid contact with skin and eyes. Use extractor hood (laboratory). If handled uncovered, arrangements with local exhaust ventilation have to be used. If local exhaust ventilation is not possible or not sufficient, the entire working area must be ventilated by technical means. Protect from moisture.

2-8°C

7.2 Conditions for safe storage, including any incompatibilities

storage temperature

Keep container tightly closed in a cool, well-ventilated place.

7.3 Specific end use(s)

No data available

8. Exposure controls / Personal protection

8.1 Control parameters

Ingredient (Designation)	Limit value type (country of origin):	Limit value	Regulatory information
	ongin).		

8.2 Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment. If handled uncovered, arrangements with local exhaust ventilation have to be used.

8.3 Personal protective equipment

Wear suitable protective clothing. When handling with chemical substances, protective clothing with CE-labels including the four control digits must be worn.

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8.3.1 Eye / face protection

Eye glasses with side protection DIN-/EN-Norms: DIN EN 166

8.3.2 Skin protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. Recommended glove articles DIN-/EN-Norms: DIN EN 374 In the case of wanting to use the gloves again, clean them before taking off and air them well.

By short-term hand contact	
Suitable material:	No data available
Thickness of the glove material	No data available
Breakthrough time (maximum wearing time)	No data available
Recommended glove articles	No data available
By long-term hand contact	
Suitable material:	No data available
Thickness of the glove material	No data available
Breakthrough time (maximum wearing time)	No data available

8.3.3 Protective clothing

Wash hands before breaks and after work. Avoid contact with skin and eyes. When using do not eat, drink or smoke. Provide eye shower and label its location conspicuously.

8.3.4 Respiratory protection

Respiratory protection necessary at: aerosol or mist formation.

Suitable respiratory protection apparatus:	No data available
Recommendation	No data available
Suitable material:	No data available
Recommendation	No data available

8.4 Additional information

Wash hands before breaks and after work. Avoid contact with skin and eyes. When using do not eat, drink or smoke. Provide eye shower and label its location conspicuously.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

(a) Appearance Physical state Colour	liquid No data available
(b) Odour	No data available
(c) Odour threshold	No data available

Safety relevant basic data

 (d) pH (e) Melting point/freezing point (f) Initial boiling point and boiling range (g) Flash point (h) Evaporation rate (i) Flammability (solid, gas) 	No data available -30 to -20 °C 111°C (1013 hPa) No data available No data available not applicable
(j) Upper/lower flammability or explosive limits	
Lower explosion limit (Vol-%)	No data available
Upper explosion limit (Vol-%)	No data available
(k) Vapour pressure	No data available
(I) Vapour density	No data available
(m) Relative density	1.22 g/cm³ (20°C)
(n) Solubility(ies)	
Water solubility (g/l)	No data available
at °C:	
Soluble (g/l) in	No data available
(o) Partition coefficient: n-octanol/water	No data available
(p) Auto-ignition temperature	No data available
(q) Decomposition temperature	No data available
(r) Viscosity	
Kinematic viscosity	No data available
Dynamic viscosity	No data available
(s) Explosive properties	not applicable
(t) Oxidising properties	not applicable
9.2 Other information	
Bulk density	No data available

refraction index dissociation constant Surface tension Henry constant No data available No data available No data available No data available No data available

10. Stability and reactivity

10.1 Reactivity

No data available

10.2 Chemical stability

No data available

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

No data available

10.5 Incompatible materials

No data available

10.6 Hazardous decomposition products

No data available

- 10.7 Additional information
 - No data available

11. Toxicological information

11.1 Information on toxicological effects

Acute effects

Acute oral toxicity Effective dose species: Exposure time remark source	No data available No data available
Acute dermal toxicity Effective dose species: Exposure time remark source	No data available No data available
Acute inhalation toxicity Effective dose species: Exposure time remark source	No data available No data available
Irritant and corrosive effects	
Primary irritation to the skin Exposure time species: Result	

Irritation to eyes Exposure time species: Result Irritation to respiratory tract Exposure time species: Result

Sensitisation

In case of skin contact After inhalation not sensitising. not sensitising.

Specific target organ toxicity (single exposure)

not relevant

Specific target organ toxicity (repeated exposure)

not relevant

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Carcinogenicity

No indication of human carcinogenicity.

Germ cell mutagenicity/Genotoxicity

No indications of human germ cell mutagenicity exist.

Reproductive toxicity

No indications of human reproductive toxicity exist.

Aspiration hazard

not relevant

11.2 Other adverse effects

No data available

11.3 Additional information

No data available

12. Ecological information

12.1 Ecotoxicity

Acute (short-term) fish toxicity

LC50: EC50 species: Exposure time	No data available	
Chronic (long-term) fish toxicity LC50: EC50 species: Exposure time	No data available	
Acute (short-term) daphnia toxicity LC50: EC50 species: Exposure time	No data available	
Chronic (long-term) daphnia toxicity LC50: EC50 species: Exposure time	No data available	
Acute (short-term) algae toxicity LC50: EC50 species: Exposure time	No data available	
Chronic (long-term) algae toxicity LC50: EC50 species: Exposure time	No data available	
12.2 Persistence and degradability		
No data available		
12.3 Bioaccumulative potential		
(o) Partition coefficient: n-octanol/wate	r	No data available
12.4 Mobility in soil		
No data available		
12.5 Results of PBT assessment		
No data available		
12.6 Other adverse effects		
No data available		

13. Disposal considerations

13.1 Waste treatment methods

Appropriate disposal / Product

Dispose according to legislation. Consult the appropriate local waste disposal expert about waste disposal.

Waste code product

No data available

Appropriate disposal / Package

13.2 Additional information

No data available

14. Transport information

14.1 Land transport (ADR/RID)

UN-No.	1791
Proper Shipping Name	HYPOCHLORITE SOLUTION
Class(es)	8
Classification code:	C9
Packing group	Ш
Hazard label(s)	8
14.2 Sea transport (IMDG)	
	1701
UN-No.	1791
Proper Shipping Name	HYPOCHLORITE SOLUTION
Class(es)	8
Classification code:	C9
Packing group	II
Marine pollutant	
Segregation group	
14.3 Air transport (ICAO-TI / IATA-DGR)	
UN-No.	1791
Deserve Obligation Manage	

UN-NO.	1731
Proper Shipping Name	HYPOCHLORITE SOLUTION
Class(es)	8
Classification code:	C9
Packing group	II

14.4 Additional information

15. Regulatory information

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

Water hazard class (WGK) No data available

15.2 Chemical Safety Assessment

No data available

16. Other information

16.1 Relevant R-, H- and EUH-phrases (Number and full text)

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

H314	Causes severe skin burns and eye damage.
H400	Very toxic to aquatic life.

EUH031	Contact with acids liberates toxic gas.

16.2 Additional information

Indication of changes

general update

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.