

SAFETY DATA SHEET

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

1.1. Product identifier

Product name: SODIUM HYPOCHLORITE
Product code: SODHY

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

1.3. Details of the supplier of the safety data sheet

Company Name: Aaway Services Group Ltd
Unit D
Sunset Business Park
Kearsley
Bolton
BL4 8RH

Tel: 0800 0588859

1.3. Details of the supplier of the safety data sheet

Emergency tel: 0800 0588859 (Office hours only)

Section 2: Hazards identification

2.1. Classification of the substance or mixture

2.1.1 Regulation 1272/2008 (CLP)

Hazard Class	Hazard Category	Target Organs	Hazard Statements
Skin corrosion	Category 1B		H314
Acute aquatic toxicity	Category 1		H400

For the full text of the H-Statements mentioned in this Section, see Section 16

2.1.2 EEC Directive 67/548/EEC & Directive 1999/45/EC

Hazard symbol/Category of danger	Risk phrases
Corrosive (C)	R34, R31
Dangerous for the environment (N)	R50

2.2. Label elements

According to Regulation (EC) No. 1272/2008 (CLP).

Hazard Pictogram





SAFETY DATA SHEET

Signal word(s)	Danger.
Hazard statement(s)	H314; Causes severe skin burns and eye damage. H400: Very toxic to aquatic life
Precautionary statement(s)	P260: Do not breathe vapour P273: Avoid release to the environment P280: Wear protective gloves/protective clothing/eye protection/face protection P301 + P330 + P331: If SWALLOWED: rinse mouth. Do NOT induce vomiting P303 + P361 + P353: If ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing
Additional Labelling:	EUH031: Contact with acids liberates toxic gas
Hazardous components which must be listed on the label:	Sodium hypochlorite, solution

2.3. Other hazards

No other information is available

Section 3: Composition/information on ingredients

3.2. Mixtures

Name	EC No	CAS-No	Registration No	Classification 67/548/EEC	Classification EC/1272/2008	Concentration Range
Sodium hypochlorite, solution	231-668-3	7681-52-9	017-011-00-1	-	-	>= 10 - <=15
Sodium hydroxide	215-185-5	1310-73-2	011-002-00-6	-	-	>=0 - <5

Composition comments The data shown are in accordance with the latest EC Directives.

Section 4: First aid measures

4.1. Description of first aid measures

General Advice Take off contaminated clothing immediately



SAFETY DATA SHEET

Inhalation	In case of accident by inhalation: remove casualty to fresh air and keep at rest. If breathing is irregular or has stopped, administer artificial respiration. Call a physician immediately
Ingestion	Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. If swallowed, do not induce vomiting – seek medical advice. If a person vomits, when lying on their back, place them in the recovery position
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Consult an eye specialist immediately. Go to an ophthalmic hospital if possible
Skin contact	Wash off immediately with soap and plenty of water. If irritation appears or if the contamination is important, seek medical advice

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

Inhalation Effects:	may provoke the following symptoms: Cough, headache, lung oedema Risk of serious damage to the lungs (by aspiration)
---------------------	---

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

Treat symptomatically.	Later control for pneumonia and lung oedema
------------------------	---

Section 5: Fire fighting measures

5.1. Extinguishing media

Suitable extinguishing media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. The product itself does not burn
Unsuitable extinguishing media	Exempt

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products	Fire may cause evolution of: Chlorine, Hydrogen chlorine gas, chlorine oxides
-------------------------------	---

5.3. Advise for fire-fighters

Special protective equipment for firefighters	In the event of fire, wear self contained breathing apparatus. Wear appropriate body protection (full protective suit)
Further information:	Cool closed containers exposed to fire with water spray. Heating will cause a pressure rise –with risk of bursting. Collect contaminated fire extinguishing water separately. This must not be discharged into drains



SAFETY DATA SHEET

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Use personal protective equipment. Wear respiratory protection. Keep people away from and upwind of spill/leak. Provide adequate ventilation. Danger of slipping if spilled. Avoid contact with skin and eyes. Do not breathe vapour

6.2. Environmental precautions

Environmental precautions Do not flush into surface water or sanitary sewer system. Avoid subsoil penetration. If the product contaminates rivers and lakes or drains inform respective authorities. If material reaches soil inform authorities responsible for such cases

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Method and materials for containment and cleaning up: Absorb with liquid binding material (sand, diatomite, acid binders, universal binders). Keep in suitable, closed container for disposal

Further information: Treat recovered material as described in Section 13 Disposal Considerations

6.4. Reference to other sections

Reference to other sections For personal protection see Section 8

Section 7: Handling and storage

7.1. Precaution for safe handling

Advice on safe handling: Do not keep the container sealed. Handle and open container with care. Ensure adequate ventilation. Use personal protective equipment. Avoid contact with the skin and eyes. Do not breathe vapours or spray mist. M Use respirator with appropriate filter if vapours or aerosol are released. Emergency eye wash fountains and emergency showers should be available in the immediate vicinity

Hygiene measures: Keep away from food, drink and animal feedingstuffs. Smoking, eating and drinking should be prohibited in the application area. Wash hands before breaks and at the end of workday. Take off immediately all contaminated clothing immediately. Avoid contact with the skin and the eyes. Do not breathe vapour or spray mist

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage: Keep in an area equipped with alkali resistant flooring. Keep only in the original container. Store in a receptacle equipped with a vent

Advice on protection against fire and explosion: The product is not flammable. Normal measures for preventive fire



SAFETY DATA SHEET

Further information on storage conditions:	protection Keep in a well-ventilated place. Protect against light. Store in a cool place. Do not keep the container sealed
Advice on common storage:	Keep away from food, drink and animal feedingstuffs. Do not store together with acids and ammonium salts
German storage class:	8B: Non-combustible substances, corrosive

7.3. Specific end use(s)

No information available

Section 8: Exposure controls/personal protection

8.1. Control parameters

8.1 Control parameters

Sodium Hydroxide	CAS No. 1310-73-2
Regulatory Basis	UK EH40 Workplace Exposure Limits (WEL's)
Regulatory List	EH40 WEL
Value Type	Short Term Exposure Limit
Value	2 mg/m ³
Chlorine	CAS No. 7782-50-5
Regulatory Basis	EU. Indicative Exposure and Directives relating to work exposure to chemical, physical and biological agents
Regulatory List	EU ELV
Value Type	Short Term Exposure Limit (STEL):
Value	0.5 ppm
Value	1.5 mg/m ³
Remarks	Indicative
Regulatory Basis	UK EH40 Workplace Exposure Limit (WEL)
Regulatory List	EH40 WEL
Value Type	Short Term Exposure Limit (STEL)
Value	0.5 ppm
Value	1.5 mg/m ³

DN(M)EL/PNEC

DN(M)EL's

Currently we do not have any information from our supplier about this

Predicted No Effect Concentrations (PNEC):

Currently we do not have any information from our supplier about this



SAFETY DATA SHEET

8.2. Exposure controls

<p>Appropriate engineering controls</p> <p>Respiratory protection</p> <p style="padding-left: 20px;">Advice:</p> <p style="padding-left: 40px;">Recommended Filter type:</p> <p>Hand protection</p> <p style="padding-left: 20px;">Advice:</p> <p>Gloves material</p> <p>Eye protection</p> <p>Skin protection</p> <p>Hygiene Measures</p> <p>Protective Measures</p> <p>Environmental exposure controls</p>	<p>Refer to protective measures listed in sections 7 and 8</p> <p>Use respirator with appropriate filter if vapours or aerosol are released.</p> <p>Combination filter: B-P2. Combination filter: B-P3</p> <p>The glove material has to be impermeable and resistant to the product/the substance/the preparation. Take note of the information given by the producer concerning permeability and breakthrough times, and of the special workplace conditions (mechanical strain, duration of contact). Protective gloves should be replaced at first signs of wear</p> <p>Butyl rubber. Gloves: 8h. Glove thickness: 0.5 mm</p> <p>Polychloroprene: Gloves: 8h. Glove thickness: 0.5 mm</p> <p>Tightly fitting safety goggles</p> <p>Alkali resistant protective clothing</p> <p>Avoid contact with the skin and the eyes</p> <p>Use barrier cream regularly</p> <p>Provide adequate ventilation</p> <p>Wear suitable gloves and eye/face protection</p> <p>General industrial hygiene practice</p> <p>Do not flush into surface water or sanitary sewer system. Avoid subsoil penetration. If the product contaminates rivers and lakes or drains inform respective authorities. If material reaches soil inform authorities responsible for such cases</p>
--	---

8.3. Environmental controls

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

<p>Appearance</p> <p>Colour</p> <p>Odour</p> <p>Odour Threshold</p> <p>pH in water solution</p> <p>Freezing point</p> <p>Boiling point/boiling range</p> <p>Flash point</p> <p>Evaporation rate</p> <p>Flammability (solid, gas)</p> <p>Lower explosion limit</p>	<p>Liquid</p> <p>Yellowish green</p> <p>Slight chlorine</p> <p>Currently we do not have any information from our supplier about this</p> <p>>11</p> <p>-17oC</p> <p>110oC</p> <p>Not applicable</p> <p>Currently we do not have any information from our supplier about this</p> <p>Does not ignite</p> <p>Not applicable</p>
---	--



SAFETY DATA SHEET

Upper explosion limit	Not applicable
Vapour pressure	Currently we do not have any information from our supplier about this
Relative vapour density	>1.0 (Air = 1.0)
Density	1.2 – 1.3 g/cm ³
Water solubility	Completely soluble
Partition coefficient/n-octanol/water	Currently we do not have any information from our supplier about this
Thermal decomposition	Not applicable
Viscosity, dynamic	3.45 mPa.s 20°C (Aqueous solution, 15%)
Explosive properties	Not explosive
Oxidising properties	Currently we do not have any information from our supplier about this

9.2. Other information

Other information	No further information available
-------------------	----------------------------------

Section 10: Stability and reactivity

10.1. Reactivity

Advice:	This product is a very reactive substance that can react with many inorganic and organic compounds
---------	--

10.2. Chemical stability

Advice:	Decomposes on heating. Decomposes on exposure to light
---------	--

10.3. Possibility of hazardous reactions

Hazardous reactions:	May develop chlorine if mixed with acidic solutions
----------------------	---

10.4. Conditions to avoid

Heat

10.5. Incompatible materials

Materials to avoid:	Acids, ammonium compounds, acetic anhydride, organic materials, hydrogen peroxide, metal salts, copper, nickel, iron
---------------------	--

10.6. Hazardous decomposition products

Hazardous decomposition products:	Hydrogen chloride gas, chlorine, chlorine oxides
-----------------------------------	--



SAFETY DATA SHEET

Section 11: Toxicological information

11.1. Information on toxicological effects

Acute Toxicity - Oral

Value Type: LD50 Value: 2900 – 3400 mg/kg Species: Mouse

Remarks: Cause serious burns with severe pains, vomiting, pains in the stomach, possibly shock and damaged kidneys.

The burn may occur even if only small amounts have been swallowed

Inhalation

Value Type: LD50 Value: >10.5 mg/l Species: Rat

Dermal

Value Type: LD50 Value: >2000 mg/kg Species: Rabbit

Irritation - Skin

Species: Rabbit. Result: Severe skin irritation. Method: OECD Test Guideline 404.

Species: Human. Result: Corrosive effect

Eyes

Species: Rabbit. Result: Corrosive effects. Remarks: Risk of serious damage to eyes

Sensitisation

Species: Guinea pig. Result: Not sensitising

Further information

All numerical values for acute toxicity are calculated on the pure substances. If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the oesophagus and the stomach. Handle in accordance with good industrial hygiene and safety practice

Section 12: Ecological information

12.1. Toxicity

Acute Toxicity

Component: Sodium hypochlorite, solution 10 – 15% Cl active

Fish

Species: Pimephales promelas. Exposure time: 96h. Value type: LC50. Value: 0.22 – 0.62 mg/l

Toxicity to daphnia and other aquatic invertebrates

Species: Daphnia magna. Exposure time: 96h. Value type: EC50. Value: 2.1 mg/l

Algae

Species: Desmodesmus subspicatus (green algae). 24h..Value type: EC50. Value: 28 mg/l

12.2. Persistence

Component: Sodium hypochlorite, solution 10 – 15% Cl active

Persistence: No data available

Biodegradability:

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



SAFETY DATA SHEET

12.3. Bioaccumulative potential

Remarks: Bioaccumulation is not expected

12.4. Mobility in soil

Remarks: The product is mobile in water environment

12.5. Results of PBT and vPvB assessment

Remarks: No data available

12.6. Other adverse effects

Additional ecological information:

All numerical values for ecotoxicity effects are calculated on the pure substances
Do not flush into surface water or sanitary sewer system

Section 13: Disposal considerations

General information

13.1. Waste treatment methods

Product: Disposal together with normal waste is not allowed. Special disposal required according to local regulations. Do not let product enter drains. Contact waste disposal services.

Contaminated Packaging: Empty contaminated packaging thoroughly. They can be recycled after thorough and proper cleaning. Packagings that cannot be cleaned are to be disposed of in the same manner as the product

European Waste Catalogue Number:

No waste code according to the European Waste Catalogue can be assigned for this product, as the intended use dictates the assignment. The waste code is established in consultation with the regional waste disposer

Section 14: Transport information

14.1. UN Number

ADR	1791
RID	1791
IMDG	1791

14.2. UN Proper shipping name

ADR	HYPOCHLORITE SOLUTION
RID	HYPOCHLORITE SOLUTION
IMDG	HYPOCHLORITE SOLUTION



SAFETY DATA SHEET

14.3. Transport hazard classes

ADR-Class (Labels, Classification Code; Hazard Identification No; Tunnel restriction code)	8 8; C9; 80; (E)
RID-Class (Labels, Classification Code; Hazard Identification No.)	8 8; C9; 80
IMDG-Class (Labels; Ems)	8 8; F-A, S-B

14.4. Packing group

ADR	III
RID	III
IMDG	III

14.5. Environmental hazards

Labelling according to 5.2.1.8 ADR	Fish and tree	
Labelling according to 5.2.1.8 ADR	Fish and tree	
Labelling according to 5.2.1.6.3 IMDG	Fish and tree	
Classification as environmentally hazardous according to 2.9.3 IMDG		YES

14.6. Special precautions for user

Note: Not applicable

14.7. Transport in bulk according to Annex II of Marpol 73/78 and the IBC code

Note: Not applicable

Section 15: Regulatory information

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

15.2. Chemical Safety Assessment

Currently we do not have any information from our supplier about this

Section 16: Other information

Full text of R Phrases referred to under sections 2 and 3

R31: Contact with acids liberates toxic gas

R34: Causes burns

R50: Very toxic to aquatic organisms

Full text of H-Statements referred to under sections 2 and 3

H314: Causes severe skin burns and eye damage

H400: Very toxic to aquatic life



SAFETY DATA SHEET

Further information

Other information:

Restricted to professional users. Attention - Avoid exposure – obtain special instructions before use

This data sheet is prepared in accordance with commission Regulations (EU) No. 453/2010 section 16

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.

SDS Prepared 1st June 2020