SAFETY DATA SHEET

038007A Sodium Hypochlorite 14% 25L (EA) 104-0297


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

1.1. Product identifier

Product name 038007A Sodium Hypochlorite 14% 25L (EA) 104-0297
Product number 800-104-0297

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

Identified uses Industrial and professional cleaning.
Uses advised against None identified.

1.3. Details of the supplier of the safety data sheet

Supplier COVENTRY CHEMICALS LTD
WOODHAMS RD
SISKIN DRIVE
COVENTRY
CV3 4FX
Tel: +44 (0) 02476639739
Fax: +44 (0) 02476639717
Email: sales@coventrychemicals.com
Contact person For content of safety data sheet:sds@coventrychemicals.com

1.4. Emergency telephone number

Emergency telephone +44 (0) 1865407333 (Strictly for emergencies only: incidents involving damage to human health and/or the environment)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification
Physical hazards Not Classified
Health hazards Skin Corr. 1B - H314 Eye Dam. 1 - H318
Environmental hazards Aquatic Acute 1 - H400


2.2. Label elements

Pictogram

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038007A Sodium Hypochlorite 14% 25L (EA) 104-0297

Signal word
Danger

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

Precautionary statements
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): Take off immediately all contaminated clothing.
Rinse skin with water/shower.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P501 Dispose of contents/container in accordance with national regulations.

Contains
SODIUM HYPOCHLORITE SOLUTION, ... % CI ACTIVE

Supplementary precautionary statements
P260 Do not breathe vapour/spray.
P264 Wash contaminated skin thoroughly after handling.
P273 Avoid release to the environment.
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/shower.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P501 Dispose of contents/container in accordance with national regulations.

2.3. Other hazards
This product does not contain any substances classified as PBT or vPvB.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

<table>
<thead>
<tr>
<th>SODIUM HYPOCHLORITE SOLUTION, ... % CI ACTIVE</th>
<th>10-30%</th>
</tr>
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<tbody>
<tr>
<td>CAS number: 7681-52-9</td>
<td>EC number: 231-668-3</td>
</tr>
<tr>
<td>M factor (Acute) = 10</td>
<td>REACH registration number: 01-2119488154-34-XXXX</td>
</tr>
</tbody>
</table>

Classification
Skin Corr. 1B - H314
Eye Dam. 1 - H318
Aquatic Acute 1 - H400

Classification (67/548/EEC or 1999/45/EC)
C;R34 R31 N;R50

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information
Provide eyewash station and safety shower. SPEED IS ESSENTIAL. OBTAIN IMMEDIATE MEDICAL ATTENTION.

Inhalation
Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Keep affected person warm and at rest. Get medical attention immediately. For breathing difficulties, oxygen may be necessary.

Ingestion
Never give anything by mouth to an unconscious person. Rinse mouth thoroughly with water. Give plenty of water to drink. DO NOT induce vomiting. Get medical attention immediately.
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Skin contact
Remove affected person from source of contamination. Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention promptly if symptoms occur after washing.

Eye contact
Immediately flush with plenty of water for at least 15 minutes. Remove any contact lenses and hold eyelids open widely. Get medical attention immediately. Continue to rinse. Get medical attention immediately.

4.2. Most important symptoms and effects, both acute and delayed
General information
The severity of the symptoms described will vary dependent on the concentration and the length of exposure. Chemical burns must be treated by a physician. Get medical attention immediately.

Inhalation
Gas (chlorine), emitted under fire or acidic conditions, is toxic by inhalation.

Ingestion
Will immediately cause corrosion of, and damage to, the gastrointestinal tract.

Skin contact
May cause serious chemical burns to the skin.

Eye contact
May cause severe inflammation, corneal ulcers and permanent impairment of vision.

4.3. Indication of any immediate medical attention and special treatment needed
Notes for the doctor
Symptomatic treatment and supportive therapy as indicated. Aspiration hazard if swallowed. Entry into the lungs following ingestion or vomiting may cause chemical pneumonitis.

SECTION 5: Firefighting measures

5.1. Extinguishing media
Suitable extinguishing media
The product is not flammable. Use fire-extinguishing media suitable for the surrounding fire. Foam, carbon dioxide or dry powder.

5.2. Special hazards arising from the substance or mixture
Specific hazards
Oxidising agent; may assist combustion. Containers may burst if overheated.

Hazardous combustion products
Fire or high temperatures create: Chlorine. Oxides of: Chlorine. Hydrogen chloride (HCl).

5.3. Advice for firefighters
Protective actions during firefighting
Control run-off water by containing and keeping it out of sewers and watercourses.

Special protective equipment for firefighters
Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
Personal precautions
Wear protective clothing as described in Section 8 of this safety data sheet.

6.2. Environmental precautions
Environmental precautions
Avoid release to the environment. Do not discharge into drains or watercourses or onto the ground.

6.3. Methods and material for containment and cleaning up
Methods for cleaning up
Stop leak if possible without risk. Absorb in vermiculite, dry sand or earth and place into containers. Flush contaminated area with plenty of water.

6.4. Reference to other sections
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Reference to other sections
For waste disposal, see Section 13. See Section 11 for additional information on health hazards.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions
Avoid spilling. Avoid contact with skin and eyes. Avoid the formation of mists. Provide adequate ventilation. Wear protective clothing as described in Section 8 of this safety data sheet. Do not eat, drink or smoke when using the product. Good personal hygiene procedures should be implemented. Wash hands and any other contaminated areas of the body with soap and water before leaving the work site. Avoid contact with acids and other cleaning agents.

Advice on general occupational hygiene
Do not eat, drink or smoke when using this product. Good personal hygiene procedures should be implemented. Wash hands and any other contaminated areas of the body with soap and water before leaving the work site.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions
Store in a cool and well-ventilated place. Store in vented containers. Store away from the following materials: Acids. Protect from light. Suitable containers: high density polyethylene.

Storage class
Corrosive storage.

7.3. Specific end use(s)

Specific end use(s)
The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

Ingredient comments
No exposure limits known for ingredient(s). In case of Chlorine emmission, the WEL for Chlorine should be observed: Short Term Exposure Limit (STEL) 1 ppm / 2.9 mg/m3. Long Term Exposure Limit (LTEL) 0.5 ppm / 1.5 mg/m3.

SODIUM HYPOCHLORITE SOLUTION, ... % CI ACTIVE (CAS: 7681-52-9)

DNEL
Industry - Inhalation; Long term local effects: 1.55 mg/m³
Industry - Inhalation; Long term systemic effects: 1.55 mg/m³
Industry - Inhalation; Short term local effects: 3.1 mg/m³
Industry - Inhalation; Short term systemic effects: 3.1 mg/m³
Consumer - Inhalation; Long term local effects: 1.55 mg/m³
Consumer - Inhalation; Long term systemic effects: 1.55 mg/m³
Consumer - Inhalation; Short term local effects: 3.1 mg/m³
Consumer - Inhalation; Short term systemic effects: 3.1 mg/m³
Consumer - Oral; Long term systemic effects: 0.26 mg/kg/day

PNEC
- Fresh water; 0.00021 mg/l
- Marine water; 0.000042 mg/l
- Intermittent release; 0.00026 mg/l
- STP; 0.03 mg/l

8.2. Exposure controls

Protective equipment

4/10
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Appropriate engineering controls
Provide adequate ventilation. Avoid inhalation of vapours. Observe any occupational exposure limits for the product or ingredients.

Eye/face protection
Wear tight-fitting, chemical splash goggles or face shield.

Hand protection

Other skin and body protection
Wear appropriate clothing to prevent any possibility of skin contact. Use barrier creams to prevent skin contact.

Hygiene measures
Provide eyewash station and safety shower. Wash hands at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes contaminated. Promptly remove any clothing that becomes contaminated. Use appropriate skin cream to prevent drying of skin.

Respiratory protection
If ventilation is inadequate, suitable respiratory protection must be worn. Type approved for mists if OES likely to be exceeded. Wear a respirator fitted with the following cartridge: Gas filter, type B.

Environmental exposure controls
Users should be aware of environmental considerations and their duties under the environmental protection act. Further information may be found on Government websites: www.dti.gov.uk/access/index/htm and www.envirowise.gov.uk.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance
Liquid.

Colour
Yellowish. Green.

Odour
Chlorine.

Odour threshold
Not applicable.

pH
pH (concentrated solution): >11

Melting point
-17°C

Initial boiling point and range
110°C @

Flash point
Not applicable.

Evaporation rate
No information available.

Evaporation factor
Not applicable.

Vapour pressure
No information available.

Vapour density
Not determined.

Relative density
1.2 - 1.3 @ 20°C

Bulk density
Not applicable.

Solubility(ies)
Soluble in water.

Auto-ignition temperature
Not applicable.

Decomposition Temperature
Not applicable.

Viscosity
Not determined.

Explosive properties
Not applicable.

Oxidising properties
Not applicable.
Comments

Information applies to a solution of 15% (nominal) available chlorine.

9.2. Other information

Other information

Not relevant.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity

Reacts with many inorganic and organic compounds Contact with acids liberates toxic chlorine gas.

10.2. Chemical stability

Stability

Stable under the prescribed storage conditions. Decomposes over time. Factors that increase the rate of decomposition: increase in temperature, certain metallic impurities, high initial concentration, fall in pH below 11 and exposure to light.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions

Contact with acids liberates toxic chlorine gas. Oxidising agent; may assist combustion. Reacts with ammonia solutions and amines to form explosive compounds.

10.4. Conditions to avoid

Conditions to avoid

Avoid exposure to high temperatures or direct sunlight.

10.5. Incompatible materials

Materials to avoid


10.6. Hazardous decomposition products

Hazardous decomposition products

Chlorine.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological effects

Data for sodium hypochlorite solution 15% shows low acute oral toxicity: LC50 (rat, oral) 1100 mg/kg (as available chlorine).

Other health effects

There is no evidence that the product can cause cancer.

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg)

1,100

Species

Rat

Notes (oral LD₅₀)

Value used for Chemical Safety Assessment.

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg)

2,000

Species

Rat

Skin sensitisation

- Guinea pig: Not sensitising.

General information

This product has low toxicity.
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**Inhalation**  Spray/mists may cause respiratory tract irritation. A single exposure may cause the following adverse effects: Coughing. Difficulty in breathing.

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

**Skin contact**  May cause serious chemical burns to the skin.

**Eye contact**  Causes burns. A single exposure may cause the following adverse effects: Corneal damage.

**Acute and chronic health hazards**  Gas (chlorine), emitted under fire or acidic conditions, is toxic by inhalation.

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**SECTION 12: Ecological information**

**Ecotoxicity**  High acute aquatic toxicity.

12.1. **Toxicity**  Very toxic to aquatic organisms.

**Acute toxicity - fish**  \( LC_{50}, \) 96 hours: 0.06 mg/l, Fish

**Acute toxicity - aquatic invertebrates**  \( EC_{50}, \) 48 hours: 0.141 mg/l, Daphnia magna

**Acute toxicity - aquatic plants**  Can cause damage to aquatic plants.

**Acute toxicity - terrestrial**  Can cause damage to vegetation.

12.2. **Persistence and degradability**  This product contains inorganic compounds which are not biodegradable. Reacts with organic substances in soil and sediments and degrades rapidly to chloride salts. Substantially removed in biological treatment processes.

12.3. **Bioaccumulative potential**  The product is not bioaccumulating.

12.4. **Mobility in soil**  The product is water-soluble and may spread in water systems.

12.5. **Results of PBT and vPvB assessment**  This product does not contain any substances classified as PBT or vPvB.

12.6. **Other adverse effects**  There is evidence that sodium hypochlorite inhibits the aerobic treatment process at a concentration of 0.05 mg/l.

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**SECTION 13: Disposal considerations**

13.1. **Waste treatment methods**

**General information**  Waste is classified as hazardous waste. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. When handling waste, the safety precautions applying to handling of the product should be considered.

**Disposal methods**  Dispose of via an authorised and appropriately licensed waste contractor.

**Waste class**  EWC Code: 06 02 05

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**SECTION 14: Transport information**
038007A Sodium Hypochlorite 14% 25L (EA) 104-0297

14.1. UN number
UN No. (ADR/RID) 1791
UN No. (IMDG) 1791
UN No. (ICAO) 1791

14.2. UN proper shipping name
Proper shipping name (ADR/RID) HYPOCHLORITE SOLUTION
Proper shipping name (IMDG) HYPOCHLORITE SOLUTION
Proper shipping name (ICAO) HYPOCHLORITE SOLUTION
Proper shipping name (ADN) HYPOCHLORITE SOLUTION

14.3. Transport hazard class(es)
ADR/RID class 8
ADR/RID subsidiary risk
ADR/RID label 8
IMDG class 8
IMDG subsidiary risk
ICAO class/division 8
ICAO subsidiary risk

Transport labels

14.4. Packing group
ADR/RID packing group II
IMDG packing group II
ICAO packing group II

14.5. Environmental hazards
Environmentally hazardous substance/marine pollutant

14.6. Special precautions for user
IMDG Code segregation group 8. Hypochlorites
EmS F-A, S-B
Emergency Action Code 2X
Hazard Identification Number (ADR/RID) 80
Tunnel restriction code (E)

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

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

SECTION 15: Regulatory information

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

National regulations
The Control of Substances Hazardous to Health Regulations 2002 (SI 2002 No. 2677) (as amended).

EU legislation

Guidance
COSHH Essentials.
ECHA Guidance on the Application of the CLP Criteria.
ECHA Guidance on the compilation of safety data sheets.
Workplace Exposure Limits EH40.

15.2. Chemical safety assessment

A Chemical Safety Assessment (CSA) has been completed for Sodium hypochlorite. Currently we do not have information from our suppliers about this.

SECTION 16: Other information

Abbreviations and acronyms used in the safety data sheet
EWC European Waste Catalogue

General information
Only trained personnel should use this material.

Revision date 12/05/2015
Revision 1
Supersedes date 18/08/2011
SDS number 20445
Risk phrases in full
R31 Contact with acids liberates toxic gas.
R34 Causes burns.
R50 Very toxic to aquatic organisms.
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**Hazard statements in full**

H290 May be corrosive to metals.
H314 Causes severe skin burns and eye damage.
H314 Causes severe skin burns and eye damage.
H318 Causes serious eye damage.
H318 Causes serious eye damage.
H400 Very toxic to aquatic life.
H400 Very toxic to aquatic life.