



SAFETY DATA SHEET

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

According to Regulation (EC) No 1907/2006, Annex II, as amended by Regulation (EU) No 453/2010

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

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

2.2. Label elements

Pictogram



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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. P310 Immediately call a POISON CENTER/doctor. P321 Specific treatment (see medical advice on this label). P363 Wash contaminated clothing before reuse. P391 Collect spillage. P405 Store locked up.

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**

SODIUM HYPOCHLORITE SOLUTION, ... % CI ACTIVE		10-30%
CAS number: 7681-52-9	EC number: 231-668-3	REACH registration number: 01-2119488154-34-XXXX
M factor (Acute) = 10		
Classification	Classification (67/548/EEC or 1999/45/EC)	
Met. Corr. 1 - H290	C;R34 R31 N;R50	
Skin Corr. 1B - H314		
Eye Dam. 1 - H318		
Aquatic Acute 1 - H400		

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.
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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.
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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.
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6.2. Environmental precautions

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



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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	Wear protective gloves. Neoprene. Nitrile rubber. Polyethylene. Polyvinyl chloride (PVC). EN 374
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.

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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 Acids. Ammonium compounds. Organic materials. Metals, particularly copper, nickel and iron. Metal salts.

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

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.

SECTION 12: Ecological Information

Ecotoxicity High acute aquatic toxicity.

12.1. Toxicity

Toxicity Very toxic to aquatic organisms.

Acute toxicity - fish LC₅₀, 96 hours: 0.06 mg/l, Fish

Acute toxicity - aquatic invertebrates EC₅₀, 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

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

Bioaccumulative potential The product is not bioaccumulating.

12.4. Mobility in soil

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

12.5. Results of PBT and vPvB assessment

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

12.6. Other adverse effects

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

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

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

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Tunnel restriction code (E)

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

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). The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 (SI 2009 No. 1348) (as amended) ["CDG 2009"]. The Hazardous Waste Regulations 2005.
EU legislation	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended). Regulation (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) 1907/2006, Commission Directive 2000/39/EC of 8 June 2000 establishing a first list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work (as amended). Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended). Commission Decision 2000/532/EC as amended by Decision 2001/118/EC establishing a list of wastes and hazardous waste pursuant to Council Directive 75/442/EEC on waste and Directive 91/689/EEC on hazardous waste with amendments.
Guidance	Technical Guidance WM2: Hazardous Waste. 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.