



SAFETY DATA SHEET SODIUM HYPOCHLORITE

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

1.1. Product identifier

Product name	SODIUM HYPOCHLORITE
Product number	037GL
CAS number	7681-52-9
EU index number	017-011-00-1
EC number	231-668-3

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

Identified uses	Chlorine Bleach
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1.3. Details of the supplier of the safety data sheet

Supplier	GILLMAN'S COMMERCIAL. Mercia Road, St. Oswald's Road Gloucester GL1 2SG 01452 509050
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1.4. Emergency telephone number

Emergency telephone	01452 509050 (08.30 - 17.30hr Monday - Friday)
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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

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

EC number	231-668-3
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Hazard pictograms



Signal word	Danger
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Hazard statements	H314 Causes severe skin burns and eye damage. H400 Very toxic to aquatic life.
Precautionary statements	P260 Do not breathe vapour/ spray. P264 Wash contaminated skin thoroughly after handling. 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): Take off immediately all contaminated clothing. Rinse skin with water or 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. 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. P501 Dispose of contents/ container in accordance with national regulations.
Contains	SODIUM HYPOCHLORITE SOLUTION, ... % CI ACTIVE

2.3. Other hazards

SECTION 3: Composition/information on ingredients

3.2. Mixtures

SODIUM HYPOCHLORITE SOLUTION 14-15%	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)
Skin Corr. 1B - H314	C;R34. N;R50. R31.
Aquatic Acute 1 - H400	

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

Composition comments This Product is SODIUM HYPOCHLORITE 14/15%

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	Move affected person to fresh air at once. If breathing stops, provide artificial respiration. Keep affected person warm and at rest. Get medical attention immediately.
Ingestion	Never give anything by mouth to an unconscious person. Do not induce vomiting. Promptly get affected person to drink large volumes of water to dilute the swallowed chemical. Give milk instead of water if readily available. After the liquid has been swallowed, try to induce vomiting by having affected person touch back of his throat with his finger. Do not use acidic antidotes or sodium bicarbonate.
Skin contact	Remove affected person from source of contamination. Remove contaminated clothing and rinse skin thoroughly with water. Get medical attention promptly if symptoms occur after washing.
Eye contact	Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes and get medical attention.

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

Inhalation	May cause an asthma-like shortness of breath.
Ingestion	May cause chemical burns in mouth and throat.
Skin contact	Burns can occur.
Eye contact	Irritation, burning, lachrymation, blurred vision after liquid splash.

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

Notes for the doctor	Treat symptomatically.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Use fire-extinguishing media suitable for the surrounding fire.

5.2. Special hazards arising from the substance or mixture

Specific hazards Thermal decomposition or combustion products may include the following substances: Very toxic or corrosive gases or vapours. Toxic, irritating or flammable fumes from reaction with water or steam. May ignite other combustible materials.

5.3. Advice for firefighters

Protective actions during firefighting Control run-off water by containing and keeping it out of sewers and watercourses. Cool containers exposed to flames with water until well after the fire is out. Move containers from fire area if it can be done without risk. If risk of water pollution occurs, notify appropriate authorities.

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 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 Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. Stop leak if possible without risk. DO NOT touch spilled material! Provide adequate ventilation. Contain spillage with sand, earth or other suitable non-combustible material. Avoid the spillage or runoff entering drains, sewers or watercourses. Provide adequate ventilation. Flush contaminated area with plenty of water. Cover with reducing agent (e.g. sodium bisulphite/thiosulphate or a ferrous salt plus 2M H₂SO₄). Transfer to container of water and neutralise with soda ash.

6.4. Reference to other sections

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Keep away from heat, sparks and open flame. Avoid spilling. Avoid contact with skin and eyes. Provide adequate ventilation. Avoid inhalation of vapours. Use approved respirator if air contamination is above an acceptable level. Read and follow manufacturer's recommendations. Wear suitable protective equipment for prolonged exposure and/or high concentrations of vapours, spray or mist.

7.2. Conditions for safe storage, including any incompatibilities

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Storage precautions Keep away from flammable and combustible materials. Store in tightly-closed, original container in a dry, cool and well-ventilated place. Protect from light.

Storage class Corrosive storage.

7.3. Specific end use(s)

SECTION 8: Exposure controls/Personal protection

8.1. Control parameters

Occupational exposure limits

Long-term exposure limit (8-hour TWA): No std.

Short-term exposure limit (15-minute): No std.

8.2. Exposure controls

Appropriate engineering controls Provide adequate general and local exhaust ventilation.

Eye/face protection Wear chemical splash goggles.

Hand protection Wear protective gloves made of the following material: Rubber (natural, latex). Nitrile rubber. Polyvinyl chloride (PVC).

Other skin and body protection Use engineering controls to reduce air contamination to permissible exposure level. Provide eyewash station and safety shower. Wear appropriate clothing to prevent repeated or prolonged skin contact.

Hygiene measures Wash 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 wet or contaminated. Contaminated clothing should be placed in a closed container for disposal or decontamination. Warn cleaning personnel of any hazardous properties of the product.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance Clear liquid.

Colour Yellow.

Odour Characteristic. Chlorine.

Vapour pressure 20 @ °C

Relative density 1.250 - 1.270 @ @ 20°C

Solubility(ies) Miscible with water. Aqueous solutions are basic.

9.2. Other information

Molecular weight 74.45

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity Strong acids.

10.2. Chemical stability

Stability Unstable. Avoid the following conditions: Heat, sparks, flames. Avoid contact with acids.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions The following materials may react strongly with the product: Acids.

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10.4. Conditions to avoid

Conditions to avoid Avoid exposure to high temperatures or direct sunlight.

10.5. Incompatible materials

Materials to avoid Strong acids.

10.6. Hazardous decomposition products

Hazardous decomposition products Fire creates: Thermal decomposition or combustion products may include the following substances: Corrosive gases or vapours. Chlorine.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological effects No information available.

Acute toxicity - oral

ATE oral (mg/kg) 13,333.33333333

Acute and chronic health hazards

Gas or vapour is toxic or extremely irritating, even on brief exposure. This product is corrosive. This product may cause skin and eye irritation. Prolonged contact may cause burns. May cause chemical eye burns. Chronic respiratory failure. Mild dermatitis, allergic skin rash. Contact with concentrated chemical may cause severe skin damage. Swallowing concentrated chemical may cause severe internal injury.

Route of exposure Inhalation Ingestion. Skin and/or eye contact

Target organs Eyes Gastro-intestinal tract Respiratory system, lungs Skin

Medical symptoms Severe irritation, burning and tearing. Severe lung irritation. Pulmonary oedema, frothy sputum. Severe skin irritation. Nausea, vomiting.

SECTION 12: Ecological information

Ecotoxicity The product contains substances which are toxic to aquatic organisms and which may cause long-term adverse effects in the aquatic environment.

12.1. Toxicity

Toxicity Very toxic to aquatic organisms.

12.2. Persistence and degradability

12.3. Bioaccumulative potential

Bioaccumulative potential No data available on bioaccumulation.

12.4. Mobility in soil

Mobility The product is soluble in water.

12.5. Results of PBT and vPvB assessment

12.6. Other adverse effects

SECTION 13: Disposal considerations

13.1. Waste treatment methods

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Disposal methods Confirm disposal procedures with environmental engineer and local regulations. Refer to Croner's. Absorb in vermiculite, dry sand or earth and place into containers. Dispose of waste via a licensed waste disposal contractor. If liquid, combine with reducing agent (e.g. sodium bisulphite/ thiosulphate or a Ferrous salt plus 2M H₂SO₄). Neutralize with soda ash and flush to sewer with large amounts of water. With clean shovel place material into dry container, cover and move.

SECTION 14: Transport information

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 label	8
IMDG class	8
ICAO class/division	8

Transport labels



14.4. Packing group

ADR/RID packing group	III
IMDG packing group	III
ICAO packing group	III

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant



14.6. Special precautions for user

Emergency Action Code	2X
Tunnel restriction code	(E)

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

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SECTION 15: Regulatory information

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

National regulations Chemicals (hazard Information & Packaging) Regulations 2002

15.2. Chemical safety assessment

SECTION 16: Other information

General information	This information is given in good faith and is based upon current available data. The suitability of this product for any particular use is not suggested. The user must determine if the product is correct for any particular application. This document is not a specification.
Key literature references and sources for data	Dangerous Properties of Industrial Chemicals, 6.edition, N.Sax, 1984. Hazardous Materials, Emergency Response Guidebook, DOT-P 5800.3, 1984. Chemical Hazards of the Workplace, Proctor & Hughes, Lippincott, 1978
Revision date	07/05/2019
Revision	02
Supersedes date	24/09/2018
SDS number	037GL
Risk phrases in full	R31 Contact with acids liberates toxic gas. R34 Causes burns. R50 Very toxic to aquatic organisms.
Hazard statements in full	H302 Harmful if swallowed. H318 Causes serious eye damage. H314 Causes severe skin burns and eye damage. H400 Very toxic to aquatic life.