



SAFETY DATA SHEET

according to Regulation (EU) 2020/878

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Sodium Hypochlorite Solution (Bleach)

Revision 35

Revision date 2022-11-02

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1.1. Product identifier

Product name Sodium Hypochlorite Solution (Bleach)

Product code **QAFS017**

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

Product Use [SU22] Professional uses: Public domain (administration, education, entertainment, services, craftsmen); [PC35] Washing and cleaning products (including solvent based products);

Description A chlorine cleaning, bleaching and sterilising solution containing 5% Available Chlorine.

1.3. Details of the supplier of the safety data sheet

Company Superfine Manufacturing Ltd

Address Orchardbank Industrial Estate

> Forfar Angus Scotland DD8 1TD

Web www.superfine.co.uk Telephone Tel: 01307 463538 Fax: 01307 468505 Fax

Email address of the competent person

nigel@superfine.co.uk

1.4. Emergency telephone number

Emergency telephone number

01307 463538

8.30am to 17.00pm

For medical advice or information you should contact your GP or NHS 111 (or NHS 24 in

Scotland) on 111 (for 24 hour health advice)

If you are a healthcare professional with an enquiry please visit www.TOXBASE.org

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

2.1.2. Classification - EC 1272/2008

Skin Corr. 1A: H314; Aquatic Acute 1: H400; Aquatic Chronic 2: H411;

2.2. Label elements

Hazard pictograms





Signal Word

Danger

Hazard Statement Skin Corr. 1A: H314 - Causes severe skin burns and eye damage.

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2.2. Label elements

	Aquatic Acute 1: H400 - Very toxic to aquatic life.			
	Aquatic Chronic 2: H411 - Toxic to aquatic life with long lasting effects.			
Precautionary Statement:	P260 - Do not breathe dust/fume/gas/mist/vapours/spray.			
Prevention	P280 - Wear protective gloves/protective clothing/eye protection/face protection.			
Precautionary Statement:	P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting.			
Response	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.			
Precautionary Statement:	P501 - Dispose of contents/container to an approved disposal site, in accordance with local			
Disposal	regulations.			
SUPPLEMENTAL HAZARD	HAZARD EUH031 - Contact with acids liberates toxic gas.			
INFORMATION				
	Ingredients as required by Regulation (EC) No 648/2004:.			
	Ingredients - Aqua, Chlorine based bleaching agents (Sodium Hypochlorite).			
	Active Ingredient - Sodium Hypochlorite Solution 5% Cl active.			
2.3. Other hazards				
Other hazards	This substance/mixture is not classified as PBT or vPvB according to current criteria. The			
	substance/mixture does not contain substances with endocrine disrupting properties.			
Further information	Further information			
	Shelf life 6 months from date of delivery.			
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SECTION 3: Composition/information on ingredients

3.2. Mixtures

EC 1272/2008

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. (%w/w)	Classification
Sodium Hypochlorite Solution, % CI Active		7681-52-9	231-668-3	01-2119488154-34	1 - 10%	EUH031; Met. Corr. 1: H290; Skin Corr. 1B: H314; Eye Dam. 1: H318; Aquatic Acute 1: H400; Aquatic Chronic 1: H410;

Sodium Hypochlorite Solution ... % CI Active - M Factor (Acute) = 10, M Factor (Chronic) = 1.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	Move the exposed person to fresh air. Keep the affected person warm and at rest. Get medical attention immediately.
Eye contact	Rinse immediately with plenty of water for 15 minutes holding the eyelids open. Contact lenses should be removed. Get medical attention immediately.
Skin contact	Remove contaminated clothing. Wash off immediately with plenty of soap and water. Get medical attention immediately.
Ingestion	Never give anything by mouth to an unconscious person. DO NOT INDUCE VOMITING. Rinse mouth thoroughly. Get medical attention immediately.

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

Inhalation	Gas or Vapours in high concentrations may irritate the respiratory system. Contact with acids liberates toxic gas. Chlorine.
Eye contact	Causes burns. Risk of serious damage to eyes. May cause permanent damage if eye is not immediately irrigated.
Skin contact	Causes burns.
Ingestion	Ingestion may cause severe irritation of the mouth, the oesophagus and the gastrointestinal tract.

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4.2 Indication of any imm	Revision date 2022-11-0
-	ediate medical attention and special treatment needed
Inhalation	Move the exposed person to fresh air. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Seek medical attention. Show this safety data sheet to the doctor in attendance.
Eye contact	Rinse immediately with plenty of water for 15 minutes holding the eyelids open. Contact lenses should be removed. Seek medical attention. Show this safety data sheet to the doctor in attendance.
Skin contact	Remove contaminated clothing immediately. Rinse immediately with plenty of water. Seek medica attention. Show this safety data sheet to the doctor in attendance.
Ingestion	Drink 1 to 2 glasses of water. Seek medical attention. Show this safety data sheet to the doctor in attendance.
General information	
	If you feel unwell, seek medical advice (show the label where possible). Treat symptomatically.
SECTION 5: Firefightin	g measures
5.1. Extinguishing media	
	This product is not flammable. Use fire-extinguishing media appropriate for surrounding materials Extinguishing media Water spray.
5.2. Special hazards arisin	g from the substance or mixture
	Burning produces irritating, toxic and obnoxious fumes.
5.3. Advice for firefighters	
	Fire fighters should wear self contained positive pressure breathing apparatus (SCBA) and full turnout gear.
Further information	
	In the event of a fire and/or explosion do not breath fumes. Standard procedure for chemical fires. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
SECTION 6: Accidenta	I release measures
6.1. Personal precautions,	protective equipment and emergency procedures
	Wear personal protective equipment listed in section 8. Avoid contact with skin and eyes. Avoid inhalation of vapour or spray/mist. Provide adequate ventilation.
6.2. Environmental precau	tions
	Advise local authorities if large spills cannot be contained.
6.3. Methods and material	for containment and cleaning up
	Absorb with inert, absorbent material. Flush contaminated area with plenty of water. Collect and place in suitable waste disposal containers and seal securely. For waste disposal, see Section 13. Contain and collect extinguishing water.
6.4. Reference to other se	ctions
	See section 2, 7, 8, 13 for further information.
SECTION 7: Handling	and storage
7.1. Precautions for safe h	andling
	Avoid contact with eyes and skin. Do not breathe vapours or spray mist. Adopt best Manual Handling considerations when handling, carrying and dispensing. Avoid release to the environment. Refer to special instructions/Safety data sheets. Provide adequate ventilation. Contact with acids liberates toxic gas. Chlorine.
7.2. Conditions for safe sto	prage, including any incompatibilities
	Protect from frost, heat and sunlight. Store in a cool, dry area. Store in original container. Keep
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7.0. Conditions for outs stores	Revision date 2022-11-0.
7.2. Conditions for safe storage,	
	container tightly closed. Keep away from acids, Combustible materials, Ammonia. May be corrosive to metals.
7.3. Specific end use(s)	
	A chlorine cleaning, bleaching and sterilising solution containing 5% Available Chlorine.
Suitable packaging	
	Plastic containers.
SECTION 8: Exposure contr	ols/personal protection
8.1. Control parameters	
	Occupational exposure controls.
	No exposure limits noted for ingredient(s).
8.2. Exposure controls	
	Adopt best Manual Handling considerations when handling, carrying and dispensing. Avoid contact with skin and eyes. Avoid inhalation of vapour or spray/mist. Handle in accordance with good industrial hygiene and safety practice. Use appropriate personal protective equipment. Wear suitable protective clothing and eye/face protection. Provide eyewash station and safety shower. Remove contaminated clothing and wash the skin thoroughly with soap and water after work.
8.2.1. Appropriate engineering controls	Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapours below there respective threshold limit value. Ensure eyewash stations and safety showers are close to the workstation location. Avoid inhalation of vapour or spray/mist.
Eye / face protection	Avoid contact with eyes. If splashes are likely to occur, wear: safety glasses with side-shields. Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. The following protection should be worn: Wear chemical splash goggles. Personal protective equipment for eye and face protection should comply with European Standard EN166.
Skin protection - Handprotection	Rubber gloves. Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous substance and specific to place of work. For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer.
Skin protection - Other	Wear rubber apron. Wear rubber footwear. Wear suitable protective clothing.
Respiratory protection	If ventilation is inadequate, suitable respiratory protection must be worn. EN 136/140/141/145/143/149.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Prevent further leakage or spillage if safe to do so.

8.2.3. Environmental exposure

controls

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9.1. Information on basic physical and chemical properties

Appearance	Liquid
• •	· ·
	Colourless
Odour	Chlorine
Odour threshold	No data available
рН	> 12.5
Melting point	No data available
Initial boiling point	No data available
Flash point	No data available
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Vapour pressure	No data available
Relative Vapour Density	No data available
Density / Relative Density	1.08 - 1.087
Partition coefficient	No data available
Autoignition temperature	No data available
Viscosity	< 20 centipoise
Explosive properties	No data available
Oxidising properties	No data available
Solubility	Soluble in water

9.2. Other information

Conductivity	No data available
Surface tension	No data available
Gas group	No data available
Benzene Content	No data available
Lead content	No data available
VOC (Volatile organic	
compounds)	

Water solubility

	soluble.	
9.2.1. Information with regard to physical hazard classes		
	No data is available on this product.	

9.2.2. Other safety characteristics

No data is available on this product.

SECTION 10: Stability and reactivity

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Stable under normal conditions. Contact with acids liberates Toxic Gas (CHLORINE).

10.2. Chemical stability

Stable under normal conditions. No particular stability concerns.

10.3. Possibility of hazardous reactions

Strong acids. Strong oxidising agents. Contact with acids liberates Toxic Gas (CHLORINE).

10.4. Conditions to avoid

Protect from frost. Avoid excessive heat for prolonged periods of time. Avoid storing in direct Sun Light.

10.5. Incompatible materials

Strong acids. Amines. contact with metals may result in decomposition with the formation of

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10.5. Incompatible materials	
	Oxygen.
10.6. Hazardous decomposition	products
	No Hazardous decomposition products when stored and handled correctly. Oxygen. hypochlorus acid Chlorine.
SECTION 11: Toxicological	information
11.1 Information on hazard class	
	This mixture has not been tested as a whole for health effects. The health effects have been
	calculated using the methods outlined in Regulation (EC) No 1272/2008 (CLP).
Acute toxicity	based on available data the classification criteria are not met.
Skin corrosion/irritation	Skin Corr. 1A: H314 - Causes severe skin burns and eye damage. Extreme pH - ≥ 11.5. Corrosive to skin.
Serious eye damage/irritation	Causes serious eye damage.
Respiratory or skin sensitisation	based on available data the classification criteria are not met.
Germ cell mutagenicity	based on available data the classification criteria are not met.
Carcinogenicity	based on available data the classification criteria are not met.
Reproductive toxicity	based on available data the classification criteria are not met.
STOT-single exposure	based on available data the classification criteria are not met.
STOT-repeated exposure	based on available data the classification criteria are not met.
Aspiration hazard	based on available data the classification criteria are not met.
Repeated or prolonged exposure	based on available data the classification criteria are not met.
11.1.2. Mixtures	<u>'</u>
	No data available.
11.1.3. Hazard Information	1 No data available.
11.1.3. Hazaru iniormauon	I so
	No data available.
11.1.4. Toxicological Information	1
Sodium Hypochlorite Solution (Bleach)	Oral Rat LD50: 1,100 mg/kg Dermal Rabbit LD50: 2,000 mg/kg
,	Inhalation Rat LC50/4 h: 10,500 mg/l
11.2 Information on other hazard	ds
	No data is available on this product.
SECTION 12: Ecological info	ormation
12.1. Toxicity	
Sodium Hypochlorite Solution	Daphnia EC50/48h: 0.1410 mg/l Fish LC50/96h: 0.0600 mg/l
(Bleach)	Algae EC50/72h: 0.04 mg/l
	, uguo 1000, 111 0.0
12.2. Persistence and degradab	ility
	Substance is inorganic.
12.3. Bioaccumulative potential	
	The product is not bioaccumulating.
Partition coefficient	

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Partition coefficient		
	Sodium Hypochlorite Solution No data available (Bleach)	
12.4. Mobility in soil		
	This product is soluble in water.	
12.5. Results of PBT and vPvB assessment		
	This substance/mixture is not classified as PBT or vPvB according to current criteria.	
12.6 Endocrine disrupting propo	erties	
	No data is available on this product.	
12.7. Other adverse effects		
	No data is available on this product.	
SECTION 13: Disposal considerations		
13.1. Waste treatment methods		
	Dispose of waste and residues in accordance with local authority requirements.	
General information		
	Dispose of in compliance with all local and national requirements.	
Disposal of packaging		
	Do NOT reuse empty containers. Empty containers can be sent to landfill after cleaning, if in compliance with local and national regulations.	
SECTION 14: Transport information		
Hazard pictograms		
14.1. UN number		
	UN1791	
14.2. UN proper shipping name		
	HYPOCHLORITE SOLUTION	
14.3. Transport hazard class(es)		
ADR/RID	8	
Subsidiary risk		
IMDG Subaidiany riak	8	
Subsidiary risk IATA	- 8	
Subsidiary risk	-	
14.4. Packing group	•	
Packing group	l III	
14.5. Environmental hazards		
Environmental hazards	Yes	
Marine pollutant	Yes	
14.6. Special precautions for user		

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14.6. Special precautions for user		
	No additional special precautions.	
14.7 Maritime Transport in bulk according to IMO instruments		
	Not applicable.	
ADR/RID		
Hazard ID	80	
Tunnel Category	(E)	
IMDG		
EmS Code	F-A S-B	
IATA		
Packing Instruction (Cargo)	856	
Maximum quantity	60 L	
Packing Instruction	852	
(Passenger)		
Maximum quantity	5 L	

SECTION 15: Regulatory information

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

Regulations

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), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.

COMMISSION REGULATION (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.

COMMISSION REGULATION (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

15.2. Chemical safety assessment

No information available.

SECTION 16: Other information

Other information

Revision

This document differs from the previous version in the following areas:.

- 1 Product Use.
- 2 Other hazards.
- 2 Further information.
- 2 SUPPLEMENTAL HAZARD INFORMATION.
- 8 Eye / face protection.
- 8 Skin protection Other.
- 9 9.2.2. Other safety characteristics.
- 9 9.2.1. Information with regard to physical hazard classes.
- 11 Repeated or prolonged exposure.
- 11 11.2 Information on other hazards.
- 12 12.6 Endocrine disrupting properties.

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Other information		
	12 - 12.7. Other adverse effects. 15 - Regulations.	
Data sources	Classification and Procedure used to derive the classification for mixtures according to Regulation (EC) No. 1272/2008, as retained and amended in UK law.	
	Skin Corr. 1A: H314 - Causes severe skin burns and eye damage Extreme pH - ≥ 11.5.	
	Aquatic Acute 1: H400 - Very toxic to aquatic life Calculation Method, M Factor (Acute) = 10. Aquatic Chronic 2: H411 - Toxic to aquatic life with long lasting effects Calculation Method, M	
	Factor (Chronic) = 1.	
Text of Hazard Statements in	EUH031 - Contact with acids liberates toxic gas.	
Section 3	Met. Corr. 1: H290 - May be corrosive to metals.	
	Skin Corr. 1B: H314 - Causes severe skin burns and eye damage.	
	Eye Dam. 1: H318 - Causes serious eye damage.	
	Aquatic Acute 1: H400 - Very toxic to aquatic life.	
	Aquatic Chronic 1: H410 - Very toxic to aquatic life with long lasting effects.	
Further information		
	The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy. This information	
	relates only to the specific material designated and may not be valid for such material used in	
	combination with any other materials or in any other process.	