

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

SODIUM HYPOCHLORITE (12,5% CL) NL-REG-13732

Version 2.0

Print Date 15.03.2025

Revision date / valid from 12.05.2023

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

1.1. Product identifier

Trade name	:	SODIUM HYPOCHLORITE (12,5% CL) NL-REG-13732
Substance name	:	sodium hypochlorite, solution
Index-No.	:	017-011-00-1
CAS-No.	:	7681-52-9
EC-No.	:	231-668-3

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

Use of the Substance/Mixture	:	Biocidal product
Uses advised against	:	At this moment we have not identified any uses advised against
Remarks	:	The notified product according to annex VIII of CLP regulation in the above-mentioned countries may only be marketed and used if an additional notification for biocidal products according to the Biocidal Products Regulation (BPR) is available, if applicable. Information on this matter can be obtained from the responsible manufacturer.

1.3. Details of the supplier of the safety data sheet

Company	:	Brenntag N.V. Nijverheidslaan 38 BE 8540 Deerlijk
Telephone	:	+32 (0)56 77 6944
Telefax	:	+32 (0)56 77 5711
E-mail address	:	info@brenntag.be
Responsible/issuing person	:	Master Data Administration

Company	:	Brenntag Nederland B.V. Donker Duyvisweg 44 NL 3316 BM Dordrecht
Telephone	:	+31 (0)78 65 44 944
Telefax	:	+31 (0)78 65 44 919
E-mail address	:	info@brenntag.nl
Responsible/issuing person	:	Master Data Administration

1.4. Emergency telephone number

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Emergency telephone number : Belgium: Antipoison Center - Brussels TEL: +32(0)70 245 245

Netherland: National Poisoning Information Center - Bilthoven
TEL: +31(0) 88 755 8000 (Only for the purpose of informing medical personnel in cases of acute intoxications)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

REGULATION (EC) No 1272/2008			
Hazard class	Hazard category	Target Organs	Hazard statements
Corrosive to metals	Category 1	---	H290
Skin corrosion	Category 1B	---	H314
Serious eye damage	Category 1	---	H318
Short-term (acute) aquatic hazard	Category 1	---	H400
Long-term (chronic) aquatic hazard	Category 2	---	H411

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

Most important adverse effects

Human Health : See section 11 for toxicological information.

Physical and chemical hazards : See section 9/10 for physicochemical information.

Potential environmental effects : See section 12 for environmental information.

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008

Hazard symbols :



Signal word : Danger

Hazard statements : H290 May be corrosive to metals.
H314 Causes severe skin burns and eye damage.
H410 Very toxic to aquatic life with long lasting

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effects.

Precautionary statements

Prevention	:	P273 P260 P280	Avoid release to the environment. Do not breathe gas/ mist/ vapours/ spray. Wear protective gloves/ protective clothing/ eye protection/ face protection.
Response	:	P301 + P330 + P331 P303 + P361 + P353 P305 + P351 + P338 P308 + P310	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed or concerned: Immediately call a POISON CENTER/doctor.
Storage	:	P406	Store in a corrosion resistant container with a resistant inner liner.

Additional Labelling:

EUH031 Contact with acids liberates toxic gas.
Use biocides safely. Always read the label and product information before use.

Hazardous components which must be listed on the label:

- sodium hypochlorite, solution

2.3. Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.1. Substances

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Chemical nature : Aqueous solution

		Classification (REGULATION (EC) No 1272/2008)	
Hazardous components	Amount [%]	Hazard class / Hazard category	Hazard statements
sodium hypochlorite, solution			
Index-No. : 017-011-00-1	>= 10 - < 20	Met. Corr.1	H290
CAS-No. : 7681-52-9		Skin Corr.1B	H314
EC-No. : 231-668-3		Eye Dam.1	H318
		STOT SE3	H335
		Aquatic Acute1	H400
		Aquatic Chronic1	H410
		M-Factor (Acute aquatic toxicity): 10 M-Factor (Chronic aquatic toxicity): 1	EUH031
sodium hydroxide			
Index-No. : 011-002-00-6	<= 1	Met. Corr.1	H290
CAS-No. : 1310-73-2		Skin Corr.1A	H314
EC-No. : 215-185-5		Eye Dam.1	H318
EU REACH-Reg. No. : 01-2119457892-27-xxxx			
		specific concentration limit	
		Skin Irrit. 2; H315	
		0,5 - < 2 %	
		Eye Irrit. 2; H319	
		0,5 - < 2 %	
		Skin Corr. 1A; H314	
	>= 5 %		
	Skin Corr. 1B; H314		
	2 - < 5 %		

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

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice	: Take off all contaminated clothing immediately.
If inhaled	: In case of accident by inhalation: remove casualty to fresh air and keep at rest. If breathing is irregular or stopped, administer artificial respiration. Call a physician immediately.
In case of skin contact	: Wash off immediately with plenty of water. If irritation appears or if the contamination is extensive, seek medical advice.
In case of 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.
If swallowed	: Clean mouth with water and drink afterwards plenty of water.

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	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 his back, place him in the recovery position.
Protection of First Aid Responders	: First Aid responders should pay attention to self-protection and use the recommended protective clothing. If potential for exposure exists refer to Section 8 for specific personal protective equipment.

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

Symptoms	: See Section 11 for more detailed information on health effects and symptoms.
Effects	: See Section 11 for more detailed information on health effects and symptoms.

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

Treatment	: Treat symptomatically.
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SECTION 5: Firefighting 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	: High volume water jet

5.2. Special hazards arising from the substance or mixture

Specific hazards during firefighting	: Incomplete combustion may form toxic pyrolysis products.
Hazardous combustion products	: Chlorine, Hydrogen chloride gas, chlorine oxides

5.3. Advice for firefighters

Special protective equipment for firefighters	: In the event of fire, wear self-contained breathing apparatus. Wear appropriate body protection (full protective suit)
Further advice	: 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.

SECTION 6: Accidental release measures

SODIUM HYPOCHLORITE (12,5% CL) NL-REG-13732**6.1. Personal precautions, protective equipment and emergency procedures**

Personal precautions : Use personal protective equipment. Wear respiratory protection. Keep away unprotected persons. 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 materials for containment and cleaning up

Methods and materials for containment and cleaning up : Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders). Keep in suitable, closed containers for disposal. Do not keep the container sealed.

Further information : Treat recovered material as described in the section "Disposal considerations".

6.4. Reference to other sections

See Section 1 for emergency contact information.
See Section 8 for information on personal protective equipment.
See Section 13 for waste treatment information.

SECTION 7: Handling and storage**7.1. Precautions 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 the eyes. Do not breathe vapours or spray mist. 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 all contaminated clothing immediately.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Keep in an area equipped with alkali resistant flooring. Keep only in the original container. Store in a receptacle equipped with a vent. Suitable materials for containers: polyethylene; Polyvinylchloride; Unsuitable materials for containers: Iron; Copper; Aluminium; Stainless steel

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Advice on protection against fire and explosion	: The product is not flammable. Normal measures for preventive fire protection.
Further information on storage conditions	: Keep in a well-ventilated place. Protect against light. Store in cool place.
Advice on common storage	: Keep away from food, drink and animal feedingstuffs. Do not store together with acids and ammonium salts.

7.3. Specific end use(s)

Specific use(s)	: Biocidal product
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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Contains no substances with occupational exposure limit values.

Component:	sodium hydroxide	CAS-No. 1310-73-2
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Derived No Effect Level (DNEL)/Derived Minimal Effect Level (DMEL)

DNEL		
Workers, Long-term - local effects, Inhalation	:	1,0 mg/m3
DNEL		
Consumers, Long-term - local effects, Inhalation	:	1,0 mg/m3

Other Occupational Exposure Limit Values

Belgium. OELs. Exposure Limit Values to Chemical Substances at Work, Code of Well-being at work, Book VI, Title 1, as amended, Time Weighted Average (TWA):
2 mg/m3

8.2. Exposure controls

Appropriate engineering controls

Refer to protective measures listed in sections 7 and 8.

Personal protective equipment

Respiratory protection

Advice	:	Use respirator with appropriate filter if vapours or aerosol are released. Respiratory protection complying with EN 141. Recommended Filter type: Combination filter:B-P2 Combination filter:B-P3
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In case of intensive or longer exposure use self-contained breathing apparatus.

Hand protection

Advice : Protective gloves complying with EN 374.
Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).
Protective gloves should be replaced at first signs of wear.
Recommended Material:

Material : butyl-rubber
Break through time : ≥ 8 h
Glove thickness : 0,5 mm

Material : Polyvinylchloride
Break through time : ≥ 8 h
Glove thickness : 0,5 mm

Material : polychloroprene
Break through time : ≥ 8 h
Glove thickness : 0,5 mm

Eye protection

Advice : Tightly fitting safety goggles

Skin and body protection

Advice : alkali resistant protective clothing

Environmental exposure controls

General advice : 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.

SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties**

Form : liquid
Physical state : liquid
Colour : green
Odour : of, Chlorine

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Odour Threshold	:	No data available
Melting point/range	:	ca. -30 - -20 °C 13 - 16% solution
Boiling point/boiling range	:	ca. 100 °C (1013 hPa) 13 - 16% solution
Flammability (solid, gas)	:	Not applicable
Upper explosion limit / Upper flammability limit	:	Not applicable
Lower explosion limit / Lower flammability limit	:	Not applicable
Flash point	:	Not applicable
Auto-ignition temperature	:	No data available
Decomposition temperature	:	> 111 °C
Self-Accelerating decomposition temperature (SADT)	:	No data available
pH	:	12 - 13 Concentration: 100 %
Viscosity		
Viscosity, dynamic	:	3 - 4 mPa.s (20 °C) 13 - 16% solution
Viscosity, kinematic	:	No data available
Flow time	:	No data available
Solubility(ies)		
Water solubility	:	completely miscible
Solubility in other solvents	:	No data available
Dissolution Rate	:	No data available
Partition coefficient: n-octanol/water	:	log Pow: -3,42 (20 °C)
Dispersion Stability	:	No data available
Vapour pressure	:	ca. 20 hPa (20 °C) 13 - 16% solution
Relative density	:	No data available

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Density : 1,22 - 1,26 g/cm³ (20 °C)

Bulk density : No data available

Relative vapour density : No data available

Particle characteristics
No data available

9.2 Other information

Explosives : Product is not explosive.

Metal corrosion rate : Corrosive to metals

SECTION 10: Stability and reactivity**10.1. Reactivity**

Advice : Contact with acids liberates toxic gas.

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. May be corrosive to metals.

10.4. Conditions to avoid

Conditions to avoid : Heat
Thermal decomposition : > 111 °C

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

SECTION 11: Toxicological information**11.1. Information on the hazard classes within the meaning of Regulation (EC) No. 1272/2008****Data for the product****Acute toxicity**

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Oral

Based on available data, the classification criteria are not met.
Please find this information in the listing of the component/components below in this section.

Inhalation

Based on available data, the classification criteria are not met.
Please find this information in the listing of the component/components below in this section.

Dermal

Based on available data, the classification criteria are not met.
Please find this information in the listing of the component/components below in this section.

Irritation
Skin

Result : Causes severe burns.

Eyes

Result : Causes serious eye damage.

Sensitisation

Result : No sensitizing effect known.

CMR effects
CMR Properties

Carcinogenicity : It is not considered carcinogenic.
Contains no ingredient listed as a carcinogen
Mutagenicity : It is not considered mutagenic.
Contains no ingredient listed as a mutagen
Reproductive toxicity : It is not considered toxic for reproduction.
Contains no ingredient listed as toxic to reproduction

Specific Target Organ Toxicity
Single exposure

Remarks : The substance or mixture is not classified as specific target organ toxicant, single exposure.

Repeated exposure

Remarks : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Other toxic properties
Repeated dose toxicity

SODIUM HYPOCHLORITE (12,5% CL) NL-REG-13732

; There is no data available for this product.

Aspiration hazard

No aspiration toxicity classification,

Component:	sodium hypochlorite, solution	CAS-No. 7681-52-9
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Acute toxicity
Oral

LD50 : > 1100 mg/kg (Rat; Test substance: Chlorine) (OECD Test Guideline 401)

Inhalation

LC50 : > 10,5 mg/l (Rat; 1 h; Test substance: Chlorine) (OECD Test Guideline 403)

Dermal

LD50 : > 20000 mg/kg (Rabbit; Test substance: Chlorine) (OECD Test Guideline 402)

Irritation
Skin

Result : Severe skin irritation (Rabbit) (OECD Test Guideline 404)
corrosive effects (Human)

Eyes

Result : Causes serious eye damage. (Rabbit) (OECD Test Guideline 405)

Sensitisation

Result : not sensitizing (Buehler Test; Guinea pig) (OECD Test Guideline 406)

CMR effects
CMR Properties

Carcinogenicity : Animal testing did not show any carcinogenic effects.
Mutagenicity : In vitro tests did not show mutagenic effects
In vivo tests did not show mutagenic effects

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Teratogenicity : Did not show teratogenic effects in animal experiments.
 Reproductive toxicity : Animal testing did not show any effects on fertility.

Other toxic properties

Repeated dose toxicity

NOAEL : 50 mg/kg
 (Rat)(Oral; 90 Days) (OECD Test Guideline 408)

Further information

Other relevant toxicity : If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the oesophagus and the stomach.

11.2. Information on other hazards

Data for the product

Endocrine disrupting properties

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 12: Ecological information

12.1. Toxicity

Component:	sodium hypochlorite, solution	CAS-No. 7681-52-9
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Acute toxicity

Fish

LC50 : 0,06 mg/l (Salmo gairdneri; 96 h)
 NOEC : 0,04 mg/l (Menidia peninsulae (tidewater silverside); 96 h)

Toxicity to daphnia and other aquatic invertebrates

EC50 : 0,141 mg/l (Daphnia magna (Water flea); 48 h)

algae

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NOEC : 0,0021 mg/l (algae; 7 Days) Fresh water

Bacteria

EC50 : > 3 mg/l (activated sludge; 3 h)

Chronic toxicity

Fish

NOEC : 0,04 mg/l (Menidia peninsulae (tidewater silverside); 28 d)

Aquatic invertebrates

NOEC 0,007 mg/l (Eastern oyster (Crassostrea virginica); 15 d) Marine water

M-Factor

M-Factor (Acute : 10
Aquat. Tox.)
M-Factor (Chron. : 1
Aquat. Tox.)

12.2. Persistence and degradability

Component:	sodium hypochlorite, solution	CAS-No. 7681-52-9
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Persistence and degradability

Persistence

Result : The product can be degraded by abiotic (e.g. chemical or photolytic) processes.
decomposition by hydrolysis.
Half-life in fresh-water < 1 day

Biodegradability

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

12.3. Bioaccumulative potential

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Component:	sodium hypochlorite, solution	CAS-No. 7681-52-9
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Bioaccumulation

Result : log Kow -3,42 (20 °C)
: Does not bioaccumulate.

12.4. Mobility in soil

Component:	sodium hypochlorite, solution	CAS-No. 7681-52-9
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Mobility

Water : The product is mobile in water environment.
Soil : Highly mobile in soils
Air : not volatile (Henry's Constant)

12.5. Results of PBT and vPvB assessment

Data for the product

Results of PBT and vPvB assessment

Result : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Component:	sodium hypochlorite, solution	CAS-No. 7681-52-9
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Results of PBT and vPvB assessment

Result : The PBT or vPvB criteria of Annex XIII to the REACH Regulation does not apply to inorganic substances.

12.6. Endocrine disrupting properties

Data for the product

Endocrine disrupting potential : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7. Other adverse effects

Data for the product

Additional ecological information

Result : Do not flush into surface water or sanitary sewer system.

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Avoid subsoil penetration.

SECTION 13: Disposal considerations**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 packagings 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 or ID number**

1791

14.2. UN proper shipping name

ADR : HYPOCHLORITE SOLUTION
RID : HYPOCHLORITE SOLUTION
IMDG : HYPOCHLORITE SOLUTION
(Sodium hypochlorite)

14.3. Transport hazard class(es)

ADR-Class : 8
(Labels; Classification Code; Hazard Identification Number; Tunnel restriction code) 8; C9; 80; (E)
RID-Class : 8
(Labels; Classification Code; Hazard Identification Number) 8; C9; 80
IMDG-Class : 8
(Labels; EmS) 8; F-A, S-B

14.4. Packaging group

ADR : II
RID : II
IMDG : II

14.5. Environmental hazards

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Environmentally hazardous according to ADR : yes
 Environmentally hazardous according to RID : yes
 Marine Pollutant according to IMDG-Code : yes

14.6. Special precautions for user

Not applicable.

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

Netherlands : ABM: B (2)

Component:	sodium hypochlorite, solution	CAS-No. 7681-52-9
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EU. REACH, Annex XVII, : Point Nos.: , 3; Listed
 Marketing and Use
 Restrictions (Regulation
 1907/2006/EC)
 Point Nos.: , 75; Listed

EU. Directive : Qualifying quantity for the application of Lower-tier
 2012/18/EU (SEVESO requirements: 100 tonnes; Part 1: Categories of dangerous
 III) on major accident substances; Hazardous to the Aquatic Environment in
 hazards involving Category Acute 1 or Chronic 1
 dangerous substances, Annex I
 Qualifying quantity for the application of Upper-tier
 requirements: 200 tonnes; Part 1: Categories of dangerous
 substances; Hazardous to the Aquatic Environment in
 Category Acute 1 or Chronic 1

Component:	sodium hypochlorite, solution	CAS-No. 7681-52-9
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Notification status

sodium hypochlorite, solution:

Regulatory List	Notification	Notification number
EINECS	YES	231-668-3
DSL	YES	
KECI (KR)	YES	KE-31506
ENCS (JP)	YES	(1)-237
ISHL (JP)	YES	(1)-237
NZIOC	YES	HSR003698
IECSC	YES	

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INSQ	YES	
ONT INV	YES	
TCSI	YES	
PICCS (PH)	YES	
TSCA	YES	
PHARM (JP)	YES	
VN INV	YES	
TH INV	YES	55-1-05972
TH INV	YES	2828.90
AU AIICL	YES	

Component:	sodium hydroxide	CAS-No. 1310-73-2
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Notification status sodium hydroxide:

Regulatory List	Notification	Notification number
EINECS	YES	215-185-5
DSL	YES	
KECI (KR)	YES	97-1-136
KECI (KR)	YES	KE-31487
ENCs (JP)	YES	(1)-410
ISHL (JP)	YES	(1)-410
NZIOC	YES	HSR001547
INSQ	YES	
IECSC	YES	
ONT INV	YES	
TCSI	YES	
PICCS (PH)	YES	
TSCA	YES	
VN INV	YES	
TH INV	YES	2815.11
TH INV	YES	2815.12
TH INV	YES	55-1-01354
PHARM (JP)	YES	
AU AIICL	YES	

15.2. Chemical safety assessment

No data available

SECTION 16: Other information



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

H290	May be corrosive to metals.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.

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Full text of the Notes referred to under section 3.

Abbreviations and Acronyms

AU AIICL	Australia. Industrial Chemicals Act (AIIC) List
BCF	bioconcentration factor
BOD	biochemical oxygen demand
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging
CMR	carcinogenic, mutagenic or toxic to reproduction
COD	chemical oxygen demand
DNEL	derived no-effect level
DSL	Canada. Environmental Protection Act, Domestic Substances List
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
ENCS (JP)	Japan. Kashin-Hou Law List
GHS	Globally Harmonized System of Classification and Labelling of Chemicals
IECSC	China. Inventory of Existing Chemical Substances
INSQ	Mexico. National Inventory of Chemical Substances
ISHL (JP)	Japan. Inventory of Industrial Safety & Health
KECI (KR)	Korea. Existing Chemicals Inventory
LC50	median lethal concentration
LOAEC	lowest observed adverse effect concentration
LOAEL	lowest observed adverse effect level
LOEL	lowest observed effect level
NDSL	Canada. Environmental Protection Act. Non-Domestic Substances List
NLP	no-longer polymer
NOAEC	no observed adverse effect concentration
NOAEL	no observed adverse effect level
NOEC	no observed effect concentration
NOEL	no observed effect level
NZIOC	New Zealand. Inventory of Chemicals
OECD	Organisation for Economic Cooperation and Development
OEL	occupational exposure limit
ONT INV	Canada. Ontario Inventory List
PBT	persistent, bioaccumulative and toxic
PHARM (JP)	Japan. Pharmacopoeia Listing
PICCS (PH)	Philippines. Inventory of Chemicals and Chemical Substances
PNEC	predicted no-effect concentration

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REACH Auth. No.:	REACH Authorisation Number
REACH AuthAppC. No.	REACH Authorisation Application Consultation Number
UK REACH Auth. No.:	UK REACH Authorisation Number
UK REACH AuthAppC. No.	UK REACH Authorisation Application Consultation Number
UK REACH-Reg.No	UK REACH Registration Number
STOT	specific target organ toxicity
SVHC	substance of very high concern
TCSI	Taiwan. Existing Chemicals Inventory
TH INV	Thailand. Existing Chemicals Inventory from FDA
TSCA	US. Toxic Substances Control Act

Further information

Key literature references and sources for data	:	Supplier information and data from the "Database of registered substances" of the European Chemicals Agency (ECHA) were used to create this safety data sheet.
Methods used for product classification	:	The classification for human health, physical and chemical hazards and environmental hazards were derived from a combination of calculation methods and if available test data.
Hints for trainings	:	The workers have to be trained regularly on the safe handling of the products based on the information provided in the Safety Data Sheet and the local conditions of the workplace. National regulations for the training of workers in the handling of hazardous materials must be adhered to.
Other information	:	The information provided in this Safety Data Sheet is correct to our knowledge at the date of its revision. The information given only describes the products with regard to safety arrangements and is not to be considered as a warranty or quality specification and does not constitute a legal relationship. The information contained in this Safety Data Sheet relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

|| Indicates updated section.