

SAFETY DATA SHEET

Natriumhypoklorit 15%

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

1.1. Product identifier

Trade name

Natriumhypoklorit 15%

Unique formula identifier (UFI)

4200-U0CW-500G-QRA8

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

Relevant identified uses of the substance or mixture

PC8 Disinfection

Restricted to professional users.

Product code (A.I.S.E.)

AISE-P810 / Disinfection product. Semi-automatic process.

Use descriptors (REACH)

Sectors of use	Description
LCS "PW"	Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
Process category	Description
PROC 1	Anvendelse i lukket proces, ingen sandsynlighed for eksponering.
PROC 2	Use in closed, continuous process with occasional controlled exposure
Environmental release category	Description
ERC 8a	Wide dispersive indoor use of processing aids in open systems
ERC9a	Wide dispersive indoor use of processing aids in close systems

Uses advised against

None known.

1.3. Details of the supplier of the safety data sheet

Company and address

NCA-Verodan A/S

Industriparken 5

DK-9560 Hadsund

Denmark

Tel.: +45 7027 1630

www.ncaa.dk

E-mail

mail@ncaa.dk

Revision

24/03/2025

SDS Version

1.0

1.4. Emergency telephone number

Contact the poison hotline: +45 82 12 12 12 (24 hour service)

See section 4 "First aid measures".

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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 2; H411, Toxic to aquatic life with long lasting effects.

2.2. Label elements

Hazard pictogram(s)



Signal word

Danger

Hazard statement(s)

May be corrosive to metals. (H290)

Causes severe skin burns and eye damage. (H314)

Very toxic to aquatic life with long lasting effects. (H410)

Precautionary statement(s)

General

-

Prevention

Do not breathe vapour/mist. (P260)

Wear eye protection/protective gloves/protective clothing. (P280)

Response

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. (P303+P361+P353)

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing. (P305+P351+P338)

Storage

Store in a container with a resistant inner liner. (P406)

Disposal

Dispose of contents/container in accordance with local regulation (P501)

Hazardous substances

sodium hypochlorite

Additional labelling

EUH031, Contact with acids liberates toxic gas.

Active substance(s):

sodium hypochlorite (12.3 g/100g)

UFI: 4200-U0CW-500G-QRA8

Labelling of contents according to Detergents Regulation (EC) No 648/2004

>5% - <15%

· Chlorine-based bleaching Agents

2.3. Other hazards

Additional warnings

This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification.

This product does not contain any substances considered to be endocrine disruptors in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2023/707.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable. This product is a mixture.

3.2. Mixtures

Product/substance	Identifiers	% w/w	Classification	Note
sodium hypochlorite	CAS No.: 7681-52-9 EC No.: 231-668-3 REACH: 01-2119488154-34-xxxx Index No.: 017-011-00-1	10-15%	EUH031 Met. Corr. 1, H290 Skin Corr. 1B, H314 Eye Dam. 1, H318 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 2, H411	

See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.

Other information

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SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In the case of accident: Contact a doctor or casualty department – take the label or this safety data sheet. Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.

Inhalation

IF INHALED: Move to fresh air and keep at rest in a position comfortable for breathing. If symptoms: Call 112/ambulance for medical assistance. If no symptoms: Call a POISON CENTRE or a doctor.

Skin contact

IF ON SKIN: Immediately wash skin with plenty of water. Thereafter take off all contaminated clothing and wash it before reuse. Continue to wash the skin with water for 15 minutes. Call a POISON CENTRE or a doctor.

Eye contact

IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing for at least 15 minutes. Call 112/ambulance for medical assistance.

Ingestion

IF SWALLOWED: Immediately rinse mouth. Give something to drink, if exposed person is able to swallow. Do NOT induce vomiting. Call 112/ambulance for medical assistance.

Burns

Not applicable.

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

Tissue-damaging effects: This product contains substances with skin corrosive properties. Inhaled vapour or aerosols may produce adverse effects to lungs, irritations and burns in the respiratory organs as well as coughing. Dermal contact and contact with the eye cause irreversible effects.

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

IF exposed or concerned:

Get immediate medical advice/attention.

Information to medics

The eyes should also be rinsed repeatedly on the way to the doctor if eye exposure to alkaline chemicals (pH > 11), amines and acids like acetic acid, formic acid or propionic acid
Bring this safety data sheet or the label from this product.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Not applicable.

5.2. Special hazards arising from the substance or mixture

Fire will result in dense smoke. Exposure to combustion products may harm your health. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.

If the product is exposed to high temperatures, e.g. in the event of fire, dangerous decomposition compounds are produced. These are:

Halogenated compounds

Some metal oxides

Oxygen, hypochlorous acid, chlorine.

5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact the chemical emergency services on 72 85 20 00 (24 h service) in order to obtain further advice.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid direct contact with spilled substances.

Contaminated areas may be slippery.

6.2. Environmental precautions

Avoid discharge to lakes, streams, sewers, etc. In the event of leakage to the surroundings, contact local environmental authorities.

6.3. Methods and material for containment and cleaning up

Limit spillage and collect using granular absorbent or similar materials, and dispose of it in accordance with the regulations on dangerous waste.

Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.

Wherever possible cleaning should be performed with normal cleaning agents. Avoid use of solvents.

6.4. Reference to other sections

See section 13 "Disposal considerations" on handling of waste.

See section 8 "Exposure controls/personal protection" for protective measures.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

It is recommended to install waste collection trays in order to prevent emissions to the waste water system and surrounding environment.

Avoid direct contact with the product.

Smoking, drinking and consumption of food is not allowed in the work area.

See section 8 "Exposure controls/personal protection" for information on personal protection.

7.2. Conditions for safe storage, including any incompatibilities

Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

Store in a container with a resistant inner liner.

Recommended storage material

Keep only in original packaging.

Storage conditions

> 0°C

Dry, cool and well ventilated

Incompatible materials

Strong acids, alkali metals, metal powders, oxidizing materials and amines. Contact with metals can result in decomposition with the formation of oxygen.

Acids

7.3. Specific end use(s)

This product should only be used for applications quoted in section 1.2.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No substances are listed in the national list of substances with an occupational exposure limit.

DNEL

sodium hypochlorite

Duration:	Route of exposure:	DNEL:
Long term – Local effects - General population	Inhalation	1.55 mg/m ³
Long term – Local effects - Workers	Inhalation	1,4 mg/m ³
Long term – Local effects - Workers	Inhalation	1.55 mg/m ³
Long term – Systemic effects - General population	Inhalation	1.55 mg/m ³
Long term – Systemic effects - Workers	Inhalation	1.55 mg/m ³
Short term – Local effects - General population	Inhalation	3.1 mg/m ³
Short term – Local effects - Workers	Inhalation	3 mg/m ³
Short term – Local effects - Workers	Inhalation	3.1 mg/m ³
Short term – Systemic effects - General population	Inhalation	3.1 mg/m ³
Short term – Systemic effects - Workers	Inhalation	3.1 mg/m ³
Long term – Systemic effects - General population	Oral	260 µg/kg bw/day

PNEC

sodium hypochlorite

Route of exposure:	Duration of Exposure:	PNEC:
Freshwater		0,0126 mg/l
Freshwater		210 ng/L
Freshwater sediment		0,047 mg/l
Intermittent release (freshwater)		260 ng/L
Marine water		0,0126 mg/l
Marine water		42 ng/L
Marine water sediment		0,047 mg/l
Predators		11.1 mg/kg
Sewage treatment plant		4.69 mg/L

8.2. Exposure controls

Apply general control to prevent unnecessary exposure

General recommendations

Smoking, drinking and consumption of food is not allowed in the work area.

Exposure scenarios

There are no exposure scenarios implemented for this product.

Exposure limits

Occupational exposure limits have not been defined for the substances in this product.

Appropriate technical measures

Ensure that eyewash stations and safety showers are located within easy reach.

Apply standard precautions during use of the product. Avoid inhalation of vapours.

Hygiene measures

In between use of the product and at the end of the working day all exposed areas of the body must be washed thoroughly. Pay special attention to hands, forearms and face.

Measures to avoid environmental exposure

Keep damming materials near the workplace. If possible, collect spillage during work.

Individual protection measures, such as personal protective equipment

Generally

In the event the work process is within scope of the Danish statutory order on work with code numbered products (Work Inspectorate Order no. 302/1993), then personal protection equipment shall be selected as set out herein. If applicable, please refer to the code number of this product in section 15.

Use only CE marked protective equipment.

Respiratory Equipment

Work situation	Type	Class	Colour	Standards
When there is risk of formation of mist/aerosol	Combination filter A2B2P2	Class 2	Brown/Gray/White	EN14387



Skin protection

Work situation	Recommended	Type/Category	Standards
When there is risk of splash- / intermittent exposure	Dedicated work clothing should be worn.	-	-



Hand protection

Material	Glove thickness (mm)	Breakthrough time (min.)	Standards
Nitrile	0,38	> 480	EN374-2, EN374-3, EN388
Neoprene (Neoprene)	0,6	> 240	EN374-2, EN374-3, EN388



Eye protection

Type	Standards
Wear safety glasses with side shields.	EN166



SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state

Liquid

Colour

Yellowish

Odour / Odour threshold

Sharp/pungent

pH

13

Density (g/cm³)

1.21

Kinematic viscosity

No data available.

Particle characteristics

Does not apply to liquids.

Phase changes

Melting point/Freezing point (°C)

No data available.

Softening point/range (°C)

Does not apply to liquids.

Boiling point (°C)

No data available.

Vapour pressure

20 millibar

Relative vapour density

No data available.

Decomposition temperature (°C)

No data available.

Data on fire and explosion hazards

Flash point (°C)

Not applicable - inorganic material

Flammability (°C)

Not applicable - inorganic material

Auto-ignition temperature (°C)

No data available.

Lower and upper explosion limit (% v/v)

No data available.

Solubility

Solubility in water

Completely soluble

n-octanol/water coefficient (LogKow)

No data available.

Solubility in fat (g/L)

No data available.

9.2. Other information

Other physical and chemical parameters

No data available.

Oxidizing properties

No data available.

SECTION 10: Stability and reactivity

10.1. Reactivity

Contact with acids liberates toxic gas.

Reacts violently with alkali metals, metal powders, oxidizing materials and amines.

10.2. Chemical stability

The product is stable under the conditions, noted in section 7 "Handling and storage".

10.3. Possibility of hazardous reactions

Contact with acids liberates toxic gas.

10.4. Conditions to avoid

Protect from sunlight. Do not expose to temperatures exceeding 20 °C/68 °F.

10.5. Incompatible materials

Strong acids, alkali metals, metal powders, oxidizing materials and amines. Contact with metals can result in decomposition with the formation of oxygen.

Acids

10.6. Hazardous decomposition products

Oxygen, hypochlorous acid, chlorine.

Thermal decomposition may produce corrosive vapours.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Product/substance	sodium hypochlorite
Species:	Rat
Route of exposure:	Oral
Test:	LD50
Result:	1100 mg/kg ·

Product/substance	sodium hypochlorite
Species:	Rat
Route of exposure:	Dermal
Test:	LD50
Result:	> 2000 mg/kg ·

Product/substance	sodium hypochlorite
Species:	Rat
Route of exposure:	Inhalation
Test:	LC50
Result:	> 10500 mg/kg ·

Skin corrosion/irritation

Causes severe skin burns and eye damage.

Serious eye damage/irritation

Causes serious eye damage.

Respiratory sensitisation

Based on available data, the classification criteria are not met.

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.

11.2. Information on other hazards

Long term effects

Tissue-damaging effects: This product contains substances with skin corrosive properties. Inhaled vapour or aerosols may produce adverse effects to lungs, irritations and burns in the respiratory organs as well as coughing. Dermal contact and contact with the eye cause irreversible effects.

Endocrine disrupting properties

This mixture/product does not contain any substances known to have hormone-disrupting properties in relation to health.

Other information

None known.

SECTION 12: Ecological information

12.1. Toxicity

Product/substance	sodium hypochlorite
Species:	Fish
Duration:	96 hours
Test:	LC50
Result:	0,06 mg/l ·

Product/substance	sodium hypochlorite
Species:	Crustacean
Duration:	48 hours
Test:	EC50
Result:	0,141 mg/l ·

Product/substance	sodium hypochlorite
Species:	Algae
Duration:	No data available.
Test:	NOEC
Result:	0,0021 mg/l ·

Toxic to aquatic life with long lasting effects.

12.2. Persistence and degradability

Based on available data, the classification criteria are not met.

12.3. Bioaccumulative potential

Product/substance	sodium hypochlorite
LogKow:	-3,4200
Conclusion:	No potential for bioaccumulation

12.4. Mobility in soil

sodium hypochlorite
LogKoc = 0.8679, High mobility potential.

12.5. Results of PBT and vPvB assessment

This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification.

12.6. Endocrine disrupting properties

This mixture/product does not contain any substances considered to have endocrine-disrupting properties in relation to the environment.

12.7. Other adverse effects

This product contains substances that are toxic to the environment. May result in adverse effects to aquatic organisms.

This product contains substances, which may cause adverse long-term effects to the aquatic environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product is covered by the regulations on hazardous waste. (*)
HP 8 – Corrosive
HP 12 – Release of an acute toxic gas
HP 14 – Ecotoxic
Dispose of contents/container to an approved waste disposal plant.
Commission Regulation (EU) No 1357/2014 of 18 December 2014 on waste.

EWC code

Waste group H:
Waste with low
energy content
16 09 04* Oxidising substances, not otherwise specified







Specific labelling

Not applicable.

Contaminated packing

Packaging containing residues of the product must be disposed of similarly to the product.

SECTION 14: Transport information

	14.1 UN / ID	14.2 UN proper shipping name	14.3 Hazard class(es)	14.4 PG*	14.5 Env**	Other information:
ADR	UN1791	HYPOCHLORITE SOLUTION	Transport hazard class: 8 Label: 8 Classification code: C9  	II	Yes	Limited quantities: 1 L Tunnel restriction code: (E) See below for additional information .
IMDG	UN1791	HYPOCHLORITE SOLUTION	Transport hazard class: 8 Label: 8 Classification code: C9  	II	Yes	Limited quantities: 1 L EmS: F-A S-B See below for additional information .
IATA	UN1791	HYPOCHLORITE SOLUTION	Transport hazard class: 8 Label: 8 Classification code: C9  	II	Yes	See below for additional information .

* Packing group

** Environmental hazards

Additional information

This product is within scope of the regulations of transport of dangerous goods.

ADR / See Table A, section 3.2.1 for any information on special provisions, requirements, or warnings in connection with transport. See section 5.4.3, for instructions in writing regarding mitigation of damages in relation to incidents or accidents during transport.

IMDG / See section 3.2.1, for any information on special provisions, requirements, or warnings in connection with transport.

IATA / See Table 4.2 for any information on special provisions, requirements, or warnings in connection with transport.

14.6. Special precautions for user

Not applicable.

14.7. Maritime transport in bulk according to IMO instruments

No data available.

SECTION 15: Regulatory information

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

Restrictions for application

Restricted to professional users.

People under the age of 18 shall not be exposed to this product.

Demands for specific education

No specific requirements.

SEVESO - Categories / dangerous substances

E1 - ENVIRONMENTAL HAZARDS, Qualifying quantity (lower-tier): 100 tonnes / (upper-tier): 200 tonnes

Biocidal Products Regulations

Product type: PT2 - Disinfectants and algacides not intended for direct application to humans or animals, PT4 -

Food and feed area

Restrictions on use

-

Directions for use and dose rate

-

Additional information

-

Labelling of contents according to Detergents Regulation (EC) No 648/2004

>5% - <15%

· Chlorine-based bleaching Agents

Regulation on work involving coded products

Code number (1993): 0-4.

Additional information

Not applicable.

Sources

The Danish Working Environment Authority's executive order no. 1049 of 30 May 2021 on young people's work.

Based on Council Directive 94/33 / EC of 22 June 1994 on the protection of young people at work.

Regulation (EC) No 648/2004 of the European Parliament and of the Council of 31 March 2004 on detergents.

Executive Order no. 372 of 25 April 2016 on control of the risk of major accidents with dangerous substances.

Regulation (EU) No 528/2012 of the European Parliament and of the Council of 22 May 2012 concerning the making available on the market and use of biocidal products.

Commission Regulation (EU) No 1357/2014 of 18 December 2014 on waste.

Arbejdstilsynets bekendtgørelse nr. 301 af 13. maj 1993 om fastsættelse af kodenumre med senere ændringer.

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 (CLP).

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).

15.2. Chemical safety assessment

No

SECTION 16: Other information

Full text of H-phrases as mentioned in section 3

H302, Contact with acids liberates toxic gas.

H314, May be corrosive to metals.

H314, Causes severe skin burns and eye damage.

H318, Causes serious eye damage.

H400, Very toxic to aquatic life.

H411, Toxic to aquatic life with long lasting effects.

The full text of identified uses as mentioned in section 1

LCS "PW" = Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

PROC 1 = Anvendelse i lukket proces, ingen sandsynlighed for eksponering.

PROC 2 = Use in closed, continuous process with occasional controlled exposure

ERC 8a = Wide dispersive indoor use of processing aids in open systems

ERC9a = Wide dispersive indoor use of processing aids in close systems

Abbreviations and acronyms

ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway

ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road

ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

CAS = Chemical Abstracts Service

CE = Conformité Européenne (European conformity)

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]

CSA = Chemical Safety Assessment

CSR = Chemical Safety Report

DMEL = Derived Minimal Effect Level

DNEL = Derived No Effect Level

EINECS = European Inventory of Existing Commercial chemical Substances

ES = Exposure Scenario

EUH statement = CLP-specific Hazard statement

EuPCS = European Product Categorisation System

EWG = European Waste Catalogue

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

GWP = Global warming potential

IARC = International Agency for Research on Cancer (IARC)

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

OECD = Organisation for Economic Co-operation and Development

PBT = Persistent, Bioaccumulative and Toxic

PNEC = Predicted No Effect Concentration

RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail

RRN = REACH Registration Number

SCL = A specific concentration limit

SVHC = Substances of Very High Concern

STOT-RE = Specific Target Organ Toxicity - Repeated Exposure

STOT-SE = Specific Target Organ Toxicity - Single Exposure

TWA = Time weighted average

UN = United Nations

UVBC = Unknown or variable composition, complex reaction products or of biological materials

VOC = Volatile Organic Compound

vPvB = Very Persistent and Very Bioaccumulative

Additional information

The classification of the mixture in regard of health hazards is in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP).

The classification of the substance/mixture in regard of environmental hazards are in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP).

The safety data sheet is validated by

JEH

Other

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a triangle.

The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification.

Country-language: DK-en