

SAFETY DATA SHEET

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

1.1. Product identifier

Trade name

Lugtfri Klor +

Product no.

-

REACH registration number

Not applicable

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

Relevant identified uses of the substance or mixture

PC8 Disinfection

Biocidal Products (e.g. Disinfectants, pest control) (PC8)

Washing and Cleaning Products (including solvent based products) (PC35)

Use in closed process, no likelihood of exposure (PROC 1)

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

Roller application or brushing (PROC 10)

Professional uses: Public domain (administration, education, entertainment, services, craftsmen) (SU 22)

Industrial use of substances in closed systems (ERC7)

Wide dispersive indoor use of processing aids in open systems (ERC8a)

Uses advised against

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The full text of any mentioned and identified use categories are given in section 16

1.3. Details of the supplier of the safety data sheet

Company and address

NCA-Verodan A/S

Industriparken 5

DK-9560 Hadsund

+45 70 27 16 30

www.ncaa.dk

Contact person

E-mail

mail@ncaa.dk

SDS date

2018-04-18

SDS Version

2.0

1.4. Emergency telephone number

Contact The National Poisons Information Service (dial 111, 24 h service). See section 4 "First aid measures".

SECTION 2: Hazards identification

▼ 2.1. Classification of the substance or mixture

Skin Corr. 1B; H314

Eye Dam. 1; H318

Aquatic Acute 1; H400

Aquatic Chronic 3; H412

See full text of H-phrases in section 2.2.

2.2. Label elements

▼ Hazard pictogram(s)



▼ **Signal word**

Danger

▼ **Hazard statement(s)**

Causes severe skin burns and eye damage. (H314)

Very toxic to aquatic life. (H400)

Harmful to aquatic life with long lasting effects. (H412)

▼ **Safety statement(s)**

General

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Prevention

Do not breathe mist/vapours/fume/spray. (P260).

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

Response

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. (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

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Disposal

Dispose of contents/container to an approved waste disposal plant. (P501).

▼ **Identity of the substances primarily responsible for the major health hazards**

sodium hypochlorite, solution % Cl active

▼ **2.3. Other hazards**

Not applicable

▼ **Additional labelling**

Not applicable

▼ **Additional warnings**

Not applicable

VOC

Not applicable

SECTION 3: Composition/information on ingredients

▼ **3.1/3.2. Substances/Mixtures**

NAME:	sodium hypochlorite, solution % Cl active
IDENTIFICATION NOS.:	CAS-no: 7681-52-9 EC-no: 231-668-3 REACH-no: 01-2119488154-34-xxxx Index-no: 017-011-00-1
CONTENT:	5 - <10%
CLP CLASSIFICATION:	Met. Corr. 1, STOT SE 3, Skin Corr. 1B, Aquatic Acute 1, Aquatic Chronic 2 H290, H314, H335, H400, H411, EUH031 (M-acute = 10) (M-chronic = 10)
NAME:	dodecyldimethylamine oxide
IDENTIFICATION NOS.:	CAS-no: 1643-20-5 EC-no: 216-700-6
CONTENT:	0.25 - <1%
CLP CLASSIFICATION:	Skin Irrit. 2, Eye Dam. 1, Aquatic Acute 1 H315, H318, H400

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

Other information

ATEmix(oral) > 2000

Eye Cat. 1 Sum = Sum(Ci/S(G)CLi) = 2,6368 - 3,9552

Skin Cat. 2 Sum = Sum(Ci/S(G)CLi) = 7,9112 - 11,8668

N chronic (CAT 3) Sum = Sum(Ci/(M(chronic)*25)*0.1*10^CATi) = 3,164544 - 4,746816

N acute (CAT 1) Sum = Sum(Ci/M(acute))*25) = 3,179424 - 4,769136

Detergent:

> 30%: AQUA

5 - 15%: CHLORINE-BASED BLEACHING AGENTS

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. The doctor can contact The National Poisons Information Service (dial 111, 24 h service). 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

Bring the person into fresh air and stay with him/her.

▼ Skin contact

Remove contaminated clothing and shoes immediately. Ensure to wash exposed skin thoroughly with soap and water. Skin cleanser can be used. DO NOT use solvents or thinners.

▼ Eye contact

Remove contact lenses. Flush eyes with plenty of water or salt water (20-30°C) for at least 15 minutes and continue until irritation stops. Make sure you flush under the upper and lower eyelids. Seek medical assistance immediately and continue flushing.

▼ Ingestion

In the case of ingestion, contact a doctor immediately and bring the safety data sheet or label. If the person is conscious, give them water. DO NOT try to induce vomiting, unless this is recommended by a doctor. Hold head facing down to prevent vomit returning to the mouth and throat. Prevent shock by keeping the injured person warm and calm. Initiate immediate resuscitation if breathing stops. If unconscious, roll the injured person into recovery position. Call an ambulance.

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.

Irritation effects: This product contains substances, which may cause irritation upon exposure to skin, eyes or lungs. Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure.

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

IF exposed or concerned: Get immediate medical advice/attention.

Information to medics

Bring this safety data sheet.

SECTION 5: Firefighting measures

▼ 5.1. Extinguishing media

Recommended: alcohol-resistant foam, carbonic acid, powder, water mist. Waterjets should not be used, since they can spread the fire.

▼ 5.2. Special hazards arising from the substance or mixture

If the product is exposed to high temperatures, e.g. in the event of fire, dangerous catabolic substances are produced. These are: Halogenated compounds. Carbon oxides. Some metal oxides. Fire will result in dense black smoke. Exposure to combustion products may harm your health. Fire fighters should wear appropriate protection equipment. 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.

▼ 5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact The National Poisons Information Service (dial 111, 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. Avoid inhalation of vapours from spilled material.

▼ **6.2. Environmental precautions**

Avoid discharge to lakes, streams, sewers, etc. In the event of leakage to the surroundings, contact local environmental authorities. It is recommended to install waste collection trays to prevent emissions to the waste water system and surrounding environment.

▼ **6.3. Methods and material for containment and cleaning up**

Use sand, sawdust, earth, vermiculite, diatomaceous earth to contain and collect non-combustible absorbent materials and place in container for disposal, according to local regulations. To the extent possible cleaning is performed with normal cleaning agents. Avoid use of solvents.

▼ **6.4. Reference to other sections**

See section on "Disposal considerations" in regard of handling of waste. See section on 'Exposure controls/personal protection' for protective measures.

SECTION 7: Handling and storage

▼ **7.1. Precautions for safe handling**

Smoking, storage of tobacco, consumption and storage of food or liquids are not allowed in the workrooms. It is recommended to install waste collection trays to prevent emissions to the waste water system and surrounding environment. See section on 'Exposure controls/personal protection' for information on personal protection. Avoid direct contact with the product.

▼ **7.2. Conditions for safe storage, including any incompatibilities**

Always store in containers of the same material as the original container. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

▼ **Storage temperature**

No data available.

▼ **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

▼ **OEL**

No substances are listed in The Control of Substances Hazardous to Health Regulations with an occupational exposure limit.

▼ **DNEL / PNEC**

DNEL (sodium hypochlorite, solution % Cl active): 3 mg/m³

Exposure: Inhalation

Duration of Exposure: Short term – Local effects - Workers

DNEL (sodium hypochlorite, solution % Cl active): 1,4 mg/m³

Exposure: Inhalation

Duration of Exposure: Long term – Local effects - Workers

PNEC (sodium hypochlorite, solution % Cl active): 0,0126 mg/l

Exposure: Freshwater

PNEC (sodium hypochlorite, solution % Cl active): 0,047 mg/l

Exposure: Freshwater sediment

PNEC (sodium hypochlorite, solution % Cl active): 0,0126 mg/l

Exposure: Marine water

PNEC (sodium hypochlorite, solution % Cl active): 0,047 mg/l

Exposure: Marine water sediment

8.2. Exposure controls

▼ Control is unnecessary if the product is used as intended.

General recommendations

▼ Observe general occupational hygiene standards.

Exposure scenarios

In the event exposure scenarios are appended to the safety data sheet, the operational conditions and risk management measures in these shall be complied with.

▼ **Exposure limits**

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

▼ **Appropriate technical measures**

Apply standard precautions during use of the product. Avoid inhalation of gas or dust.

▼ **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. Always wash hands, forearms and face.

▼ **Measures to avoid environmental exposure**

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

Individual protection measures, such as personal protective equipment



▼ **Generally**

Use only CE marked protective equipment.

Respiratory Equipment

No specific requirements.

▼ **Skin protection**

Dedicated work clothing should be worn. Wear a protective suit in the event of prolonged periods of work with the product.

▼ **Hand protection**

Recommended: Neoprene. Breakthrough time: > 240 minutes (Class 5)

Material thickness: 0,68 mm.

▼ **Eye protection**

Wear safety glasses with side shields.

SECTION 9: Physical and chemical properties

▼ **9.1. Information on basic physical and chemical properties**

Form	Liquid
Colour	Colourless
Odour	Sharp/pungent
Odour threshold (ppm)	No data available.
pH	11,0
Viscosity (40°C)	No data available.
Density (g/cm ³)	1,14

▼ **Phase changes**

Melting point (°C)	No data available.
Boiling point (°C)	No data available.
Vapour pressure	No data available.
Decomposition temperature (°C)	No data available.
Evaporation rate (n-butylacetate = 100)	No data available.

▼ **Data on fire and explosion hazards**

Flash point (°C)	No data available.
Ignition (°C)	No data available.
Auto flammability (°C)	No data available.
Explosion limits (% v/v)	No data available.
Explosive properties	No data available.

▼ **Solubility**

Solubility in water	Soluble
n-octanol/water coefficient	No data available.

▼ **9.2. Other information**

Solubility in fat (g/L)	No data available.
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SECTION 10: Stability and reactivity

10.1. Reactivity

No data available

▼ **10.2. Chemical stability**

According to EC-Regulation 2015/830

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

▼ **10.3. Possibility of hazardous reactions**

Nothing special

▼ **10.4. Conditions to avoid**

Do not expose to any forms of heat (e.g. solar radiation). May lead to excess pressure.

▼ **10.5. Incompatible materials**

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

10.6. Hazardous decomposition products

The product is not degraded when used as specified in section 1.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

▼ **Acute toxicity**

Substance: sodium hypochlorite, solution % Cl active

Species: Rat

Test: LD50

Route of exposure: Oral

Result: 1100 mg/kg

Substance: sodium hypochlorite, solution % Cl active

Species: Rat

Test: LD50

Route of exposure: Dermal

Result: > 2000 mg/kg

Substance: sodium hypochlorite, solution % Cl active

Species: Rat

Test: LC50

Route of exposure: Inhalation

Result: > 10500 mg/kg

Skin corrosion/irritation

Causes severe skin burns and eye damage.

Serious eye damage/irritation

Causes serious eye damage.

Respiratory or skin sensitisation

No data available.

▼ **Germ cell mutagenicity**

Data on substance: sodium hypochlorite, solution % Cl active

No adverse effect observed.

▼ **Carcinogenicity**

Data on substance: sodium hypochlorite, solution % Cl active

No adverse effect observed.

▼ **Reproductive toxicity**

Data on substance: sodium hypochlorite, solution % Cl active

No adverse effect observed.

STOT-single exposure

No data available.

STOT-repeated exposure

No data available.

Aspiration hazard

No data available.

▼ **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.

Irritation effects: This product contains substances, which may cause irritation upon exposure to skin, eyes or lungs. Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure.

SECTION 12: Ecological information

▼ **12.1. Toxicity**

According to EC-Regulation 2015/830

Substance: sodium hypochlorite, solution % Cl active
 Species: Fish
 Test: LC50
 Duration: 96 h
 Result: 0,06 mg/l

Substance: sodium hypochlorite, solution % Cl active
 Species: Crustacean
 Test: EC50
 Duration: 48 h
 Result: 0,141 mg/l

Substance: sodium hypochlorite, solution % Cl active
 Species: Algae
 Test: NOEC
 Duration:
 Result: 0,0021 mg/l

12.2. Persistence and degradability

Substance	Biodegradability	Test	Result
No data available.			

12.3. Bioaccumulative potential

Substance	Potential bioaccumulation	LogPow	BCF
sodium hypochlorite, solution...	No	-3,42	No data available

12.4. Mobility in soil

sodium hypochlorite, solution...: Log Koc= -2,629898, Calculated from LogPow ().

12.5. Results of PBT and vPvB assessment

This mixture/product does not contain any substances considered to meet the criteria classifying them as PBT and/or vPvB.

12.6. 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 due to poor biodegradability, 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.

Waste

EWC code
 16 09 04 oxidising substances, not otherwise specified

Specific labelling

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Contaminated packing

Contaminated packaging must be disposed of similarly to the product.

SECTION 14: Transport information

14.1 – 14.4

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

ADR/RID

14.1. UN number	1760
14.2. UN proper shipping name	CORROSIVE LIQUID, N.O.S. (HYPOCHLORITE SOLUTION)
14.3. Transport hazard class(es)	8
14.4. Packing group	III
Notes	-
Tunnel restriction code	-

IMDG

UN-no.	1760
Proper Shipping Name	CORROSIVE LIQUID, N.O.S., N.O.S. (NATRIUMHYPOCLORIT)
Class	8

According to EC-Regulation 2015/830

PG*	III
EmS	F-A, S-B
MP**	Yes
Hazardous constituent	-

▼ **IATA/ICAO**

UN-no.	1760
Proper Shipping Name	CORROSIVE LIQUID, N.O.S., N.O.S. (NATRIUMHYPOCLORIT)
Class	8
PG*	III

▼ **14.5. Environmental hazards**

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

14.6. Special precautions for user

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

No data available

(*) Packing group

(**) Marine pollutant

SECTION 15: Regulatory information

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

▼ **Restrictions for application**

People under the age of 18 shall not be exposed to this product cf. Council Directive 94/33/EC of 22 June 1994 on the protection of young people at work.

Demands for specific education

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Additional information

Not applicable The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

Seveso

Seveso III Part 1: E1

Seveso III Part 2: sodium hypochlorite, solution % Cl active

Sources

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

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.

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

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, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 (CLP).

EC regulation 1907/2006 (REACH).

The Control of Major Accident Hazards (COMAH) Regulations 2015.

15.2. Chemical safety assessment

No

SECTION 16: Other information

▼ **Full text of H-phrases as mentioned in section 3**

H290 - May be corrosive to metals.

H314 - Causes severe skin burns and eye damage.

H315 - Causes skin irritation.

H318 - Causes serious eye damage.

According to EC-Regulation 2015/830

H335 - May cause respiratory irritation.
H400 - Very toxic to aquatic life.
H411 - Toxic to aquatic life with long lasting effects.
EUH031 - Contact with acids liberates toxic gas.

The full text of identified uses as mentioned in section 1

PC8 = Biocidal Products (e.g. Disinfectants, pest control)
PC35 = Washing and Cleaning Products (including solvent based products)
PROC 1 = Use in closed process, no likelihood of exposure
PROC 2 = Use in closed, continuous process with occasional controlled exposure
PROC 10 = Roller application or brushing
SU 22 = Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
ERC7 = Industrial use of substances in closed systems
ERC8a = Wide dispersive indoor use of processing aids in open systems

Additional label elements

Not applicable

Other

In accordance with Regulation (EC) No. 1272/2008 (CLP) the evaluation of the classification of the mixture is based on:

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

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

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.

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.

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

The safety data sheet is validated by

AJA

Date of last essential change

(First cipher in SDS version)

2014-09-18(1.0)

Date of last minor change

(Last cipher in SDS version)

2014-09-18