Revision: 25.01.2024



Safety data sheet according to 1907/2006/EC, Article 31

Printing date 25.01.2024

Version number 3.01 (replaces version 3.00)

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

· 1.1 Product identifier

· Trade name: CHLORODES NSE

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

Sector of Use SU3 Industrial uses: Uses of substances as such or in

preparations at industrial sites

SU22 Professional uses: Public domain (administration,

education, entertainment, services, craftsmen)

Product category PC35 Washing and cleaning products (including solvent based

products)

• Process category PROC1 Chemical production or refinery in closed process without

likelihood of exposure or processes with equivalent containment

conditions.

PROC2 Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with

equivalent containment conditions

PROC8b Transfer of substance or mixture (charging and

discharging) at dedicated facilities

· Environmental release

category ERC4 Use of non-reactive processing aid at industrial site (no

inclusion into or onto article)

· Application of the substance

/ the mixture Alcaline cleaning product for use in food industry.

· 1.3 Details of the supplier of the safety data sheet

· Manufacturer/Supplier: Tensio

Doornpark 36 9120 Beveren Belgium

Tel.: +32 3 755 48 74 Fax.: +32 3 755 51 55

e-mail: info@tensio.be

· Further information

obtainable from: Product Safety Departement: SDS@tensio.be

· 1.4 Emergency telephone

number:

België / Belgique: Antigifcentrum / Centre Antipoison: +32 70 245

245

Nederland: Nationaal Vergiftigingen Informatie Centrum: +31 30

274 88 88

+44 700 393 7989

Members of the public seeking specific information on poisons

should contact:

In England and Wales: NHS 111 - dial 111

In Scotland: NHS 24 - dial 111



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2 Hazards identification

· 2.1 Classification of the substance or mixture

· Classification according to Regulation (EC) No 1272/2008

Skin Corr. 1A H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H318 Causes serious eye damage.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

· 2.2 Label elements

· Labelling according to

Regulation (EC) No 1272/2008 The product is classified and labelled according to the GB CLP

regulation.

· Hazard pictograms

GHS05

· Signal word Danger

· Hazard-determining

components of labelling: potassium hydroxide

sodium hypochlorite, solution

· **Hazard statements** H314 Causes severe skin burns and eye damage.

H412 Harmful to aquatic life with long lasting effects.

• **Precautionary statements** P260 Do not breathe dusts or mists.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye

protection/face protection/hearing protection.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all

contaminated clothing. Rinse skin with water [or

shower].

P305+P351+P338 IF IN EYES: Rinse cautiously with water for

several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

P321 Specific treatment (see on this label).

P405 Store locked up.

P501 Dispose of contents/container in accordance

with local/regional/national/international

regulations.

· 2.3 Other hazards

· Results of PBT and vPvB assessment

PBT: Not applicable.vPvB: Not applicable.



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3 Composition/information on ingredients

· 3.2 Mixtures

• **Description:** Mixture of substances listed below with nonhazardous additions.

· Dangerous components:		
CAS: 1312-76-1 EINECS: 215-199-1 Reg.nr.: 01-2119456888-17- XXXX	Silicic acid, potassium salt Skin Irrit. 2, H315; Eye Irrit. 2, H319	≥2.5–<10%
CAS: 1310-58-3 EINECS: 215-181-3 Reg.nr.: 01-2119487136-33- XXXX	potassium hydroxide Skin Corr. 1A, H314; Acute Tox. 4, H302 Specific concentration limits: Skin Corr. 1A; H314: $C \ge 5$ % Skin Corr. 1B; H314: $2 \% \le C < 5 \%$ Skin Irrit. 2; H315: $0.5 \% \le C < 2 \%$ Eye Irrit. 2; H319: $0.5 \% \le C < 2 \%$	≥5–≤10%
CAS: 7681-52-9 EINECS: 231-668-3 Reg.nr.: 01-2119488154-34- XXXX	sodium hypochlorite, solution Skin Corr. 1B, H314; Eye Dam. 1, H318; Aquatic Acute 1, H400 (M=10); Aquatic Chronic 1, H410 (M=1); ↑ Acute Tox. 4, H302, EUH031 Specific concentration limit: EUH031: C ≥ 5 %	≥1-<2.5%
CAS: 61788-90-7 EINECS: 263-016-9	cocoalkyldimethylamine oxide Eye Dam. 1, H318; Aquatic Acute 1, H400; Skin Irrit. 2, H315	≥0.25-<1%
· Additional information:	For the wording of the listed hazard phrases refer to s	ection 16.

4 First aid measures

· 4.1 Description of first aid measures

• General information: Immediately remove any clothing soiled by the product.

· After inhalation: In case of unconsciousness place patient stably in side position for

transportation.

· After skin contact: Immediately wash with water and soap and rinse thoroughly.

· After eye contact: Rinse opened eye for several minutes under running water. Then

consult a doctor.

· After swallowing: Drink plenty of water and provide fresh air. Call for a doctor

immediately.

· 4.2 Most important symptoms and effects, both acute and

delayed Skin contact: burns, pain, redness.

Eye contact: lesions, irritations, pain, tearing, redness.

Inhalation: malaise, dizziness

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Ingestion: burns, irritation, pain.

· 4.3 Indication of any immediate medical attention and special treatment needs

and special treatment needed Treat symptomatically. An eyewash is recommended in the

immediate work area.

5 Firefighting measures

· 5.1 Extinguishing media

· Suitable extinguishing agents:

5.2 Special hazards arising

from the substance or mixture

5.3 Advice for firefighters

· Protective equipment:

Use fire extinguishing methods suitable to surrounding conditions.

During heating or in case of fire poisonous gases are produced.

During mouning of in ouco of the polocitous guests are product

6 Accidental release measures

 6.1 Personal precautions, protective equipment and emergency procedures

Mount respiratory protective device.

Mouth respiratory protective device.

Wear protective equipment. Keep unprotected persons away.

· 6.2 Environmental precautions:

Do not allow product to reach sewage system or any water course. Inform respective authorities in case of seepage into water course

or sewage system.

Do not allow to enter sewers/ surface or ground water.

· 6.3 Methods and material for

containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders,

universal binders, sawdust). Use neutralising agent.

Dispose contaminated material as waste according to section 13.

Ensure adequate ventilation.

· 6.4 Reference to other

sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

· 7.1 Precautions for safe

handling

Do not refill residue into storage receptacles.

Ensure good ventilation/exhaustion at the workplace.

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Prevent formation of aerosols.

· Information about fire - and

explosion protection: Keep respiratory protective device available.

· 7.2 Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by

storerooms and receptacles: Store in a cool location.

· Information about storage in

one common storage facility: Not required.

· Further information about

storage conditions: Keep container tightly sealed.

· 7.3 Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

· 8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

CAS: 1310-58-3 potassium hydroxide (≥5–≤10%)

WEL (Great Britain) Short-term value: 2 mg/m3

• Additional information: The lists valid during the making were used as basis.

· 8.2 Exposure controls · Appropriate engineering

controls No further data; see section 7.

· Individual protection measures, such as personal protective equipment

· General protective and

hygienic measures: Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

• Respiratory protection: In case of brief exposure or low pollution use respiratory filter

device. In case of intensive or longer exposure use self-contained

respiratory protective device.

· Hand protection



Protective gloves

The glove material has to be impermeable and resistant

to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the

material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be

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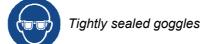
calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove

material

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye/face protection



9 Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· General Information

· Physical state Fluid

· Colour: According to product specification

Odour: Characteristic
 Odour threshold: Not determined.
 Melting point/freezing point: Undetermined.

· Boiling point or initial boiling point and

boiling range 100 °C

· Flammability Not applicable.

· Lower and upper explosion limit

Lower: Not determined.
 Upper: Not determined.
 Flash point: Not applicable
 Decomposition temperature (SADT): Not determined.

· pH at 20 °C >12

· Viscosity:

Kinematic viscosityDynamic:Not determined.Not determined.

· Solubility

· water: Not miscible or difficult to mix.

· Partition coefficient n-octanol/water (log

value) Not determined.

· Vapour pressure at 20 °C: 23 hPa

Density and/or relative density

Density at 20 °C:
 Relative density
 Vapour density
 Not determined.
 Not determined.

9.2 Other information

· Appearance:

· Form: Fluid

· Important information on protection of health and environment, and on safety.

· **Ignition temperature:** Product is not selfigniting.

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• Explosive properties: Product does not present an explosion hazard.

· Change in condition

· Evaporation rate Not determined.

· Information with regard to physical hazard classes

· Explosives Void · Flammable gases Void · Aerosols Void · Oxidising gases Void · Gases under pressure Void · Flammable liquids Void · Flammable solids Void · Self-reactive substances and mixtures Void · Pyrophoric liquids Void · Pyrophoric solids Void · Self-heating substances and mixtures Void · Substances and mixtures, which emit flammable gases in contact with water Void Oxidising liquids Void · Oxidising solids Void Organic peroxides Void · Corrosive to metals Void Void · Desensitised explosives

10 Stability and reactivity

• 10.1 Reactivity No further relevant information available.

· 10.2 Chemical stability · Thermal decomposition /

conditions to be avoided: No decomposition if used according to specifications.

· 10.3 Possibility of hazardous

reactions
Reacts with acids releasing chlorine.

10.4 Conditions to avoid
No further relevant information available.

10.5 Incompatible materials:
No further relevant information available.

· 10.6 Hazardous

decomposition products: Chlorine

11 Toxicological information

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

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

· LD/LC50 values relevant for classification:

ATE (Acute Toxicity Estimates)

Oral LD50 3,367 mg/kg (rat)

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· **Skin corrosion/irritation** Causes severe skin burns and eye damage.

- · Serious eye damage/irritation Causes serious eye damage.
- · 11.2 Information on other hazards
- · Endocrine disrupting properties

None of the ingredients is listed.

12 Ecological information

· 12.1 Toxicity

· Aquatic toxicity: No further relevant information available.

· 12.2 Persistence and

degradability No further relevant information available.

· 12.3 Bioaccumulative

potential No further relevant information available.

12.4 Mobility in soil No further relevant information available.

12.5 Results of PBT and vPvB assessment
 PBT: Not applicable.
 vPvB: Not applicable.

· 12.6 Endocrine disrupting

properties The product does not contain substances with endocrine disrupting

properties.

· 12.7 Other adverse effects

· Remark: Harmful to fish

· Additional ecological information:

• General notes: Water hazard class 2 (German Regulation) (Self-assessment):

hazardous for water

Do not allow product to reach ground water, water course or

sewage system.

Must not reach sewage water or drainage ditch undiluted or

unneutralised.

Danger to drinking water if even small quantities leak into the

ground.

The surfactants ingredients of the product are biodegradable

according to the requirements of regulation 648/2004/EC.

Harmful to aquatic organisms

Rinse off of bigger amounts into drains or the aquatic environment may lead to increased pH-values. A high pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably reduced, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.



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13 Disposal considerations

· 13.1 Waste treatment methods

Recommendation Must not be disposed together with household garbage. Do not

allow product to reach sewage system.

· Uncleaned packaging:

• Recommendation: Disposal must be made according to official regulations.

14 Transport information

· 14.2 UN proper shipping name

· ADR UN1719 CAUSTIC ALKALI LIQUID, N.O.S.

(POTASSIUM HYDROXIDE, sodium hypochlorite,

solution)

· IMDG, IATA CAUSTIC ALKALI LIQUID, N.O.S. (POTASSIUM

HYDROXIDE, sodium hypochlorite, solution)

· Class 8 Corrosive substances.

· **Label** 8 · **ADR, IMDG, IATA** //

· 14.5 Environmental hazards:

· Marine pollutant: No

• 14.6 Special precautions for user Warning: Corrosive substances.

· Hazard identification number (Kemler code): 80 · EMS Number: F-A,S-B

· Segregation groups (SGG18) Alkalis

· Stowage Category A

Segregation Code SG22 Stow "away from" ammonium salts SG35 Stow "separated from" SGG1-acids

· 14.7 Maritime transport in bulk according to

IMO instruments Not applicable.

· Limited quantities (LQ) 1L
· Excepted quantities (EQ) Code: E2

Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml

Transport category
 Tunnel restriction code
 Limited quantities (LQ)
 Excepted quantities (EQ)

Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml

• UN "Model Regulation": UN 1719 CAUSTIC ALKALI LIQUID, N.O.S.

(POTASSIUM HYDROXIDE, SODIUM

HYPOCHLORITE, SOLUTION), 8, II



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15 Regulatory information

- · 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Poisons Act

•	Regu	lated	expi	osives	pr	ecursors	;
	A /	- C 11		1! 1 -	•	1'-1-1	_

None of the ingredients is listed.

Regulated poisons

None of the ingredients is listed.

Reportable explosives precursors

None of the ingredients is listed.

Reportable poisons

• •		
CAS: 1310-58-3	potassium hydroxide	17% of total caustic alkalinity
CAS: 7681-52-9	sodium hypochlorite, solution	Listed

· Labelling according to

Regulation (EC) No 1272/2008 The product is classified and labelled according to the GB CLP regulation.

· Hazard pictograms



· Signal word Danger

· Hazard-determining

components of labelling: potassium hydroxide

sodium hypochlorite, solution

· Hazard statements H314 Causes severe skin burns and eye damage.

H412 Harmful to aquatic life with long lasting effects.

· Precautionary statements P260 Do not breathe dusts or mists.

P273 Avoid release to the environment. P280

Wear protective gloves/protective clothing/eye

protection/face protection/hearing protection.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all

contaminated clothing. Rinse skin with water [or

shower].

P305+P351+P338 IF IN EYES: Rinse cautiously with water for

several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

P321 Specific treatment (see on this label).

P405 Store locked up.

P501 Dispose of contents/container in accordance

with local/regional/national/international

regulations.

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· Directive 2012/18/EU · Named dangerous substances - ANNEX I

None of the ingredients is listed.

· 15.2 Chemical safety

assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Harmful if swallowed. · Relevant phrases H302

> H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H318 Causes serious eye damage. H319 Causes serious eye irritation. H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

EUH031 Contact with acids liberates toxic gas.

· Contact: Wim Lampaert

MSc Chemistry

· Abbreviations and acronyms: ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous

Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative

ATE: Acute toxicity estimate values Acute Tox. 4: Acute toxicity - Category 4

Skin Corr. 1A: Skin corrosion/irritation - Category 1A Skin Corr. 1B: Skin corrosion/irritation - Category 1B Skin Irrit. 2: Skin corrosion/irritation - Category 2

Eye Dam. 1: Serious eye damage/eye irritation - Category 1

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2 Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard -

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic

hazard - Category 1

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic

hazard - Category 3

· * Data compared to the previous version altered.