

Version number 5.02 (replaces version 5.01) Revision: 25.01.2024 Printing date 25.01.2024

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

· 1.1 Product identifier

CHLORODES CIP SV · Trade name:

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

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

preparations at industrial sites

· Product category PC35 Washing and cleaning products (including solvent based

products)

· Application of the substance

/ the mixture **Biocide**

· 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: +44 700 393 7989

2 Hazards identification

- · 2.1 Classification of the substance or mixture
- · Classification according to Regulation (EC) No 1272/2008

Met. Corr.1 H290 May be corrosive to metals.

Skin Corr. 1A H314 Causes severe skin burns and eye damage. Aquatic Chronic 1 H410 Very toxic 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 GHS09

· 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 effects.

· Precautionary statements Do not breathe dust/fume/gas/mist/vapours/ P260

spray.

(Contd. on page 2)



Printing date 25.01.2024 Version number 5.02 (replaces version 5.01) Revision: 25.01.2024

Trade name: CHLORODES CIP SV

(Contd. of page 1)

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.

· Additional information: EUH031 Contact with acids liberates toxic gas.

· 2.3 Other hazards

· Results of PBT and vPvB assessment

PBT: Not applicable.vPvB: Not applicable.

3 Composition/information on ingredients

· 3.2 Mixtures

Dangerous components:

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

Dangerous components.		
CAS: 1310-73-2 EINECS: 215-185-5 Reg.nr.: 01-2119457892-27- XXXX	sodium hydroxide Skin Corr. 1A, H314; Acute Tox. 4, H302 Specific concentration limits: Skin Corr. 1A; H314: C ≥5 % Skin Corr. 1B; H314: 2 % ≤ C < 5 % Skin Irrit. 2; H315: 0.5 % ≤ C < 2 % Eye Irrit. 2; H319: 0.5 % ≤ C < 2 %	≥5-<10%
CAS: 1310-58-3 EINECS: 215-181-3 Reg.nr.: 01-2119487136-33- XXXX	potassium hydroxide Skin Corr. 1A, H314;	≥2.5–<5%
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%
Additional information:	For the wording of the listed hazard phrases refer to se	ction 16.



Printing date 25.01.2024 Version number 5.02 (replaces version 5.01) Revision: 25.01.2024

Trade name: CHLORODES CIP SV

(Contd. of page 2)

4 First aid measures

· 4.1 Description of first aid measures

• General information: IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue

rinsing.

IF ON SKIN (or hair): Take off immediately all contaminated

clothing. Rinse skin with water [or shower]. Immediately call a POISON CENTER/doctor.

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.

Do not induce vomiting; call for medical help 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 Ingestion: burns, irritation, pain.

· 4.3 Indication of any immediate medical attention

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

Use fire extinguishing methods suitable to surrounding conditions.

Formation of toxic gases is possible during heating or in case of

tire.

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

5.3 Advice for firefighters

· Protective equipment: Wear self-contained respiratory protective device.

Mouth respiratory protective device.



Printing date 25.01.2024 Version number 5.02 (replaces version 5.01) Revision: 25.01.2024

Trade name: CHLORODES CIP SV

(Contd. of page 3)

6 Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures

Mount 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. Dilute with plenty of water.

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 Ensure good ventilation/exhaustion at the workplace.

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: Store away from reducing agents.

Store away from foodstuffs.

Store away from ammonium salts and separated from acids.

Do not store together with acids.

· Further information about

storage conditions: Store in a cool place. Store in the dark.

> Protect from contamination. Do not seal receptacle gas tight.

Protect from heat and direct sunlight.

(Contd. on page 5)



Printing date 25.01.2024 Version number 5.02 (replaces version 5.01) Revision: 25.01.2024

Trade name: CHLORODES CIP SV

(Contd. of page 4)

• 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: 1310-73-2 sodium hydroxide (≥5-<10%)

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

CAS: 1310-58-3 potassium hydroxide (≥2.5–<5%)

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 and skin.

• Respiratory protection: Use suitable respiratory protective device only when aerosol or

mist is formed.

Filter B

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 penetration times, rates of diffusion and the degradation

Material of gloves Nitrile rubber, NBR

Recommended thickness of the material: ≥ 0.4 mm

The selection of the suitable gloves does not only depend on 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 calculated in advance and has therefore to be checked prior to the

application.

(Contd. on page 6)



Printing date 25.01.2024 Version number 5.02 (replaces version 5.01) Revision: 25.01.2024

Trade name: CHLORODES CIP SV

Penetration time of glove

material

(Contd. of page 5)

For the mixture of chemicals mentioned in header 3 the penetration time has to be at least 480 minutes (Permeation according to EN

374 Part 3: Level 1).

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

Tightly sealed goggles

· Body protection: Alkaline resistant protective clothing

9 Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· General Information

Colour: Yellow
Odour: Chlorine-like
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 12.3 (OECD 122)

· Viscosity:

• Kinematic viscosity at 40 °C 1.2 mm²/s (OECD 114)

Dynamic: Not determined.

Solubility

· water: Fully miscible.

· Partition coefficient n-octanol/water (log

value)Not determined.Vapour pressure at 20 °C:23 hPa

· Vapour pressure at 20 °C:

· Density and/or relative density

Density at 20 °C: 1.156 g/cm³ (REACH A.3.)

Relative densityVapour densityNot determined.Not determined.

· 9.2 Other information

· Appearance:

· Form: Fluid

(Contd. on page 7)



Revision: 25.01.2024 Printing date 25.01.2024 Version number 5.02 (replaces version 5.01)

Trade name: CHLORODES CIP SV

(Contd. of page 6)

· Important information on protection of health

and environment, and on safety.

Ignition temperature: Product is not selfigniting.

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

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 Void · Pyrophoric solids 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 May be corrosive to metals.

Void · Desensitised explosives

10 Stability and reactivity

· 10.1 Reactivity No further relevant information available.

· 10.2 Chemical stability Stable under the handling and storage conditions recommended in

Chapter 7.

· Thermal decomposition /

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

· 10.3 Possibility of hazardous

reactions Under handling and storage conditions recommended in chapter 7:

no dangerous reaction known.

· 10.4 Conditions to avoid Avoid reducing agents.

> Avoid ammonium salts. Keep away from acids.

High temperatures and direct sunlight

No further relevant information available. · 10.5 Incompatible materials:

· 10.6 Hazardous

decomposition products: Under recommended handling and storage conditions in chapter 7,

no known hazardous decomposition products. See Chapter 5 for

combustion products.



Printing date 25.01.2024 Version number 5.02 (replaces version 5.01) Revision: 25.01.2024

Trade name: CHLORODES CIP SV

(Contd. of page 7)

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:

CAS: 1310-73-2 sodium hydroxide

Oral LD50 2,000 mg/kg (rat)

CAS: 1310-58-3 potassium hydroxide

Oral LD50 273 mg/kg (rat)

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

· Serious eye damage/irritation Causes severe skin burns and eye damage.

· Respiratory or skin

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

Germ cell mutagenicity
 Based on available data, the classification criteria are not met.
 Carcinogenicity
 Based on available data, the classification criteria are not met.

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
• Aspiration hazard

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

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

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 For information on endocrine disrupting properties see section 11.

· 12.7 Other adverse effects

· Additional ecological information:

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

hazardous for water

(Contd. on page 9)



Printing date 25.01.2024 Version number 5.02 (replaces version 5.01) Revision: 25.01.2024

Trade name: CHLORODES CIP SV

(Contd. of page 8)

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

sewage system.

Must not reach sewage water or drainage ditch undiluted or

unneutralised.

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.

13 Disposal considerations

· 13.1 Waste treatment methods

• Recommendation Dispose of the product and / or its packaging as hazardous waste.

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.

· Recommended cleansing

agents: Water, if necessary together with cleansing agents.

14 Transport information

· 14.2 UN proper shipping name

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

(SODIUM HYDROXIDE, POTASSIUM HYDROXIDE), ENVIRONMENTALLY

HAZARDOUS

· IMDG CAUSTIC ALKALI LIQUID, N.O.S. (SODIUM

HYDROXIDE, POTASSIUM HYDROXIDE),

MARINE POLLUTANT

· IATA CAUSTIC ALKALI LIQUID, N.O.S. (SODIUM

HYDROXIDE, POTASSIUM HYDROXIDE)

· Class 8 Corrosive substances.

· Label 8 · ADR, IMDG, IATA

· 14.5 Environmental hazards: Product contains environmentally hazardous

substances: sodium hypochlorite, solution

· Marine pollutant:

Symbol (fish and tree)

Special marking (ADR): Symbol (fish and tree)

• 14.6 Special precautions for user Warning: Corrosive substances.

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

(Contd. on page 10)



Printing date 25.01.2024 Version number 5.02 (replaces version 5.01) Revision: 25.01.2024

Trade name: CHLORODES CIP SV

(Contd. of page 9)

· Segregation groups 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 2
Tunnel restriction code E
Limited quantities (LQ) 1L
Excepted quantities (EQ) Code

• Excepted quantities (EQ) Code: E2

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 500 ml UN 1719 CAUSTIC ALKALI LIQUID, N.O.S.

(SODIUM HYDROXIDE, POTASSIUM HYDROXIDE), 8, II, ENVIRONMENTALLY

HAZARDOUS

15 Regulatory information

UN "Model Regulation":

- · 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Labelling according to

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

· Hazard pictograms





GHS05 GHS09

· 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 effects.

• Precautionary statements P260 Do not breathe dust/fume/gas/mist/vapours/

spray.

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].

(Contd. on page 11)



Printing date 25.01.2024 Version number 5.02 (replaces version 5.01) Revision: 25.01.2024

Trade name: CHLORODES CIP SV

(Contd. of page 10)

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.

· Directive 2012/18/EU · Named dangerous

substances - ANNEX INone of the components are listed.
None of the ingredients is listed.

Seveso category E1 Hazardous to the Aquatic Environment

Qualifying quantity (tonnes) for the application of lower-

tier requirements 100 t

Qualifying quantity (tonnes) for the application of upper-

tier requirements 200 t

· 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.

Relevant phrases H302 Harmful if swallowed.

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 Met. Corr.1: Corrosive to metals – Category 1 Acute Tox. 4: Acute toxicity – Category 4

Skin Corr. 1A: Skin corrosion/irritation - Category 1A

(Contd. on page 12)



Printing date 25.01.2024

Version number 5.02 (replaces version 5.01)

Trade name: CHLORODES CIP SV

(Contd. of page 11)

Revision: 25.01.2024

Skin Corr. 1B: Skin corrosion/irritation - Category 1B

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

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard -

Category 1

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

hazard - Category 1

* Data compared to the previous version altered.

GB