

Printing date 25.01.2024 Version number 6.04 (replaces version 6.03) Revision: 25.01.2024

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

· 1.1 Product identifier

CHLORODES FOAM MP · Trade name:

· 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

PC8 Biocidal products · Product category · Process category PROC7 Industrial spraying

PROC8b Transfer of substance or mixture (charging and

discharging) at dedicated facilities

· Environmental release

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

inclusion into or onto article)

· 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

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

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.

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· Hazard pictograms



GHS05 GHS09

· Signal word Danger

· Hazard-determining

components of labelling: sodium hydroxide

sodium hypochlorite, solution

· **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].

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

• **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: 1344-09-8 EINECS: 215-687-4	Silicic acid, sodium salt Eye Dam. 1, H318; Acute Tox. 4, H302; Skin Irrit. 2, H315; STOT SE 3, H335	≥3–<10%

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	,	Contd. of page 2)
CAS: 7681-52-9	sodium hypochlorite, solution	≥1–<2.5%
EINECS: 231-668-3	Skin Corr. 1B, H314; Eye Dam. 1, H318;	
Reg.nr.: 01-2119488154-34-	Aquatic Acute 1, H400 (M=10); Aquatic Chronic 1,	
XXXX	H410 (M=1); (Acute Tox. 4, H302, EUH031	
	Specific concentration limit:	
	EUH031: C ≥ 5 %	
CAS: 61788-90-7	cocoalkyldimethylamine oxide	≥1-<2.5%
EINECS: 263-016-9	Eye Dam. 1, H318; 🍫 Aquatic Acute 1, H400; Skin Irrit. 2, H315	
Additional information: For the wording of the listed hazard phrases refer to section 16.		ection 16.

4 First aid measures

· 4.1 Description of first aid measures

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

clothing. Rinse skin with water [or shower].

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

rinsing.

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: Do not induce vomiting.

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 cont

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.



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5 Firefighting measures

· 5.1 Extinguishing media · Suitable extinguishing

agents:

Carbon dioxide

Fire-extinguishing powder

Water spray

Use fire extinguishing methods suitable to surrounding conditions.

 5.2 Special hazards arising from the substance or

mixture

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

fire.

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.

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.

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· 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: Protect from contamination.

Store in a cool place.

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: 1310-73-2 sodium 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 and skin.

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

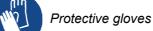
mist is formed.

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



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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.

· Penetration time of glove

material

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

Physical state
Colour:
Odour:
Odour threshold:
Melting point/freezing point:

Fluid

Yellow
Chlorine-like
Not determined.

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: >100°C

• Decomposition temperature (SADT): Not determined. • pH at 20 °C >11.5 (OECD 122)

· Viscosity:

Kinematic viscosityDynamic:Not determined.Not determined.

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· Solubility

· water: Fully miscible.

· 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:** 1.072 g/cm³ (REACH A.3)

Relative densityVapour densityNot 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.

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

· Change in condition

· Evaporation rate Not determined.

· Information with regard to physical hazard classes

Explosives
Flammable gases
Aerosols
Oxidising gases
Gases under pressure
Flammable liquids
Flammable solids
Self-reactive substances and mixtures

Self-reactive substances and mixtures
 Pyrophoric liquids
 Pyrophoric solids
 Self-heating substances and mixtures

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.

· Desensitised explosives Void

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.

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· 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 ammonium salts.

Avoid reducing agents. Keep away from acids.

High temperatures and direct sunlight

· 10.5 Incompatible materials:

No further relevant information available.

· 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.

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 7,483 mg/kg

Skin corrosion/irritation Causes severe skin burns and 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 The contained surfactants in this product are biodegradable

· 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.

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· 12.7 Other adverse effects

· Additional ecological information:

• General notes: The product may not be released into the environment without

control.

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.

Also poisonous for fish and plankton in water bodies.

The surfactants ingredients of the product are biodegradable

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

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 SOLUTION, sodium hypochlorite, solution), ENVIRONMENTALLY

HAZARDOUS

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

HYDROXIDE SOLUTION, sodium hypochlorite,

solution), MARINE POLLUTANT

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

HYDROXIDE SOLUTION, sodium hypochlorite,

solution)

· Class 8 Corrosive substances.

·Label · ADR, IMDG, IATA

· 14.5 Environmental hazards: Product contains environmentally hazardous

substances: sodium hypochlorite, solution

· Marine pollutant: Yes

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

Segregation groups (SGG18) Alkalis

· Stowage Category

SG22 Stow "away from" ammonium salts · Segregation Code

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 Ε · 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

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

> (SODIUM HYDROXIDE SOLUTION, SODIUM HYPOCHLORITE, SOLUTION), 8, 11,

ENVIRONMENTALLY HAZARDOUS

15 Regulatory information

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

None of the ingredients is listed.

Regulated poisons

None of the ingredients is listed.

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Reportable explosives precursors				
None of the ingredients is listed.				
· Reportable poisons				
CAS: 1310-73-2 sodium hydroxide	12% 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





GHS05 GHS0

· **Signal word** Danger

· Hazard-determining

components of labelling: sodium hydroxide

sodium hypochlorite, solution

· **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].

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 I

None 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

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· 15.2 Chemical safety

assessment: A Chemical Safety Assessment has 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.
H335 May cause respiratory 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

Met. Corr.1: Corrosive to metals – Category 1 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

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

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.



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Annex: Exposure scenario

· Short title of the exposure scenario

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

preparations at industrial sites

Product categoryProcess categoryPC8 Biocidal productsPROC7 Industrial spraying

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)

 Description of the activities / processes covered in the

Exposure Scenario See section 1 of the annex to the Safety Data Sheet.

· Conditions of use

· **Duration and frequency** 5 workdays/week.

· Physical parameters

· Physical state Fluid

· Concentration of the

substance in the mixture The substance is main component.

· Used amount per time or

activity tons per day

· Other operational conditions · Other operational conditions affecting environmental

exposure No special measures required.

Use only on hard ground.

· Other operational conditions

affecting worker exposure Avoid contact with eyes.

Avoid contact with the skin.

· Other operational conditions

affecting consumer exposure No special measures required.

Other operational conditions affecting consumer exposure

during the use of the product Not applicable.

· Risk management measures

· Worker protection

· Organisational protective

measures No special measures required.

· Technical protective

measures Ensure that suitable extractors are available on processing

machines

Use product only in enclosed systems.

· Personal protective measures Do not inhale gases / fumes / aerosols.

Avoid contact with the skin.

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Avoid contact with the eyes.
Tightly sealed goggles
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

· Measures for consumer

protection Ensure adequate labelling.

· Environmental protection measures

· Water Generally, prior to the introduction of wastewater into wastewater

treatment plants a neutralisation is required.

Do not allow to reach sewage system.

· **Soil** Prevent contamination of soil.

• **Disposal measures** Ensure that waste is collected and contained.

Disposal procedures Must not be disposed together with household garbage. Do not

allow product to reach sewage system.

• Waste type Partially emptied and uncleaned packaging

· Exposure estimation

· **Consumer** Not relevant for this Exposure Scenario.

· Guidance for downstream

users No further relevant information available.