

## Safety data sheet

### according to 1907/2006/EC, Article 31

Printing date 25.01.2024

Version number 3.02 (replaces version 3.01)

Revision: 25.01.2024

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

#### · 1.1 Product identifier

· Trade name: **TENSALC MRE**

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

No further relevant information available.

· 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

### 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.

#### · 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



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**Trade name: TENSALC MRE**

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- **Signal word** Danger
  
- **Hazard-determining components of labelling:** sodium hydroxide  
tetrasodium ethylenediaminetetraacetate
- **Hazard statements** H314 Causes severe skin burns and eye damage.
- **Precautionary statements**
  - P260 Do not breathe mist/vapours/spray.
  - 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.
  - 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.

### 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 %	10–25%
CAS: 64-02-8 EINECS: 200-573-9 Reg.nr.: 01-2119486762-27-XXXX	tetrasodium ethylenediaminetetraacetate ⚠ Eye Dam. 1, H318; ⚠ Acute Tox. 4, H302	≥3–≤10%

- **Additional information:** For the wording of the listed hazard phrases refer to section 16.

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#### 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  
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:

*Use fire extinguishing methods suitable to surrounding conditions.*

##### · 5.2 Special hazards arising from the substance or mixture

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

##### · 5.3 Advice for firefighters

##### · Protective equipment:

*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:

*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).*

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· **6.4 Reference to other sections**

Use neutralising agent.  
Dispose contaminated material as waste according to section 13.  
Ensure adequate ventilation.

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:**

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: 1310-73-2 sodium hydroxide (10–25%)

WEL (Great Britain) Short-term value: 2 mg/m<sup>3</sup>

· **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.  
Do not inhale gases / fumes / aerosols.  
Avoid contact with the eyes.  
Avoid contact with the eyes and skin.

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· **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 penetration times, rates of diffusion and the degradation*

· **Material of gloves**

*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**

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

· **Eye/face protection**



Tightly sealed goggles

**9 Physical and chemical properties**

· **9.1 Information on basic physical and chemical properties**

· **General Information**

· <b>Physical state</b>	Fluid
· <b>Colour:</b>	Yellow-brown
· <b>Odour:</b>	Characteristic
· <b>Odour threshold:</b>	Not determined.
· <b>Melting point/freezing point:</b>	Undetermined.
· <b>Boiling point or initial boiling point and boiling range</b>	100 °C
· <b>Flammability</b>	Not applicable.
· <b>Lower and upper explosion limit</b>	
· <b>Lower:</b>	Not determined.
· <b>Upper:</b>	Not determined.
· <b>Flash point:</b>	Not applicable
· <b>Auto-ignition temperature:</b>	571 °C
· <b>Decomposition temperature (SADT):</b>	Not determined.
· <b>pH at 20 °C</b>	13 (OECD 122)
· <b>Viscosity:</b>	
· <b>Kinematic viscosity</b>	Not determined.
· <b>Dynamic:</b>	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:** 1.31 g/cm<sup>3</sup>
- **Relative density** Not determined.
- **Vapour density** 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.
- **Solvent content:**
- **VOC (EC)** 0.00 %
- **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
- **Desensitised explosives** Void

**10 Stability and reactivity**

- **10.1 Reactivity** No further relevant information available.

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- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

**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	4,444 mg/kg
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**CAS: 1310-73-2 sodium hydroxide**

Oral	LD50	2,000 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.

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· **12.7 Other adverse effects**

· **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.*

*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**

*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**

*UN3266 CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (SODIUM HYDROXIDE SOLUTION, tetrasodium ethylenediaminetetraacetate)*

· **IMDG, IATA**

*CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (SODIUM HYDROXIDE SOLUTION, tetrasodium ethylenediaminetetraacetate)*

· **Class**

*8 Corrosive substances.*

· **Label**

*8*

· **ADR, IMDG, IATA**

*II*

· **14.5 Environmental hazards:**

· **Marine pollutant:**

*No*

· **14.6 Special precautions for user**

*Warning: Corrosive substances.*

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- **Hazard identification number (Kemler code):** 80
- **EMS Number:** F-A,S-B
- **Segregation groups** (SGG18) Alkalis
- **Stowage Category** B
- **Stowage Code** SW2 Clear of living quarters.
- **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** 2
- **Tunnel restriction code** E
- **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 3266 CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (SODIUM HYDROXIDE SOLUTION, TETRASODIUM ETHYLENEDIAMINETETRAACETATE), 8, II

**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.

· **Reportable explosives precursors**

None of the ingredients is listed.

· **Reportable poisons**

CAS: 1310-73-2 sodium hydroxide

12% of total caustic alkalinity

· **Labelling according to**

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

· **Hazard pictograms**



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· <b>Signal word</b>	<i>Danger</i>
· <b>Hazard-determining components of labelling:</b>	<i>sodium hydroxide tetrasodium ethylenediaminetetraacetate</i>
· <b>Hazard statements</b>	<i>H314 Causes severe skin burns and eye damage.</i>
· <b>Precautionary statements</b>	<i>P260 Do not breathe mist/vapours/spray. 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. P501 Dispose of contents/container in accordance with local/regional/national/international regulations.</i>
· <b>Directive 2012/18/EU</b>	
· <b>Named dangerous substances - ANNEX I</b>	<i>None of the ingredients is listed.</i>
· <b>15.2 Chemical safety assessment:</b>	<i>A Chemical Safety Assessment has not been carried out.</i>

**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.*

· <b>Relevant phrases</b>	<i>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.</i>
· <b>Contact:</b>	<i>Wim Lampaert MSc Chemistry</i>
· <b>Abbreviations and acronyms:</b>	<i>RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA) ICAO: International Civil Aviation Organisation ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO) ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)</i>

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*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)*

*VOC: Volatile Organic Compounds (USA, EU)*

*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*

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

**\* Data compared to the  
previous version altered.**