

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

Printing date 25.01.2024

Version number 2.01 (replaces version 2.00)

Revision: 25.01.2024

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

· **1.1 Product identifier**

· **Trade name:** **TENSAQUA F**

· **Article number:** 99980000637

· **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** Water conditioner

· **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
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
+3237554874

2 Hazards identification

· **2.1 Classification of the substance or mixture**

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

Acute Tox. 4 H302 Harmful if swallowed.

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

Eye Dam. 1 H318 Causes serious eye damage.

Skin Sens. 1 H317 May cause an allergic skin reaction.

STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.

· **2.2 Label elements**

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

(Contd. on page 2)

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

Printing date 25.01.2024

Version number 2.01 (replaces version 2.00)

Revision: 25.01.2024

Trade name: TENSAQUA F

(Contd. of page 1)

· **Hazard pictograms**



GHS05 GHS07 GHS08

· **Signal word**

Danger

· **Hazard-determining components of labelling:**

*potassium hydroxide
hydroxyphosphonoacetic acid
Derivate of acrylic acid copolymer*

· **Hazard statements**

*H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H373 May cause damage to organs through prolonged or repeated exposure.*

· **Precautionary statements**

*P260 Do not breathe dusts or mists.
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).
P362+P364 Take off contaminated clothing and wash it before reuse.
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.*

3 Composition/information on ingredients

· **3.2 Mixtures**

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

(Contd. on page 3)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 25.01.2024

Version number 2.01 (replaces version 2.00)

Revision: 25.01.2024

Trade name: TENSAQUA F

(Contd. of page 2)

Dangerous components:

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: $C \geq 5\%$ Skin Corr. 1B; H314: $2\% \leq C < 5\%$ Skin Irrit. 2; H315: $0.5\% \leq C < 2\%$ Eye Irrit. 2; H319: $0.5\% \leq C < 2\%$	10–25%
CAS: 23783-26-8 ELINCS: 405-710-8	hydroxyphosphonoacetic acid STOT RE 2, H373; Skin Corr. 1B, H314; Acute Tox. 4, H302; Skin Sens. 1, H317	10%
	Derivate of acrylic acid copolymer Met. Corr. 1, H290; Eye Dam. 1, H318; Aquatic Chronic 3, H412	≥ 3 –<10%

Additional information:

For the wording of the listed hazard phrases refer to section 16.

4 First aid measures

4.1 Description of first aid measures
General information:

Immediately remove any clothing soiled by the product. Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

After inhalation:

Supply fresh air and to be sure call for a doctor. 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:

Call for a doctor immediately. 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.

GB

(Contd. on page 4)

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

Printing date 25.01.2024

Version number 2.01 (replaces version 2.00)

Revision: 25.01.2024

Trade name: TENSAQUA F

(Contd. of page 3)

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:** 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:** Not required.
- **Further information about storage conditions:** Keep container tightly sealed.

(Contd. on page 5)

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

Printing date 25.01.2024

Version number 2.01 (replaces version 2.00)

Revision: 25.01.2024

Trade name: TENSAQUA F

(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: 1310-58-3 potassium hydroxide (10–25%)

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.
Store protective clothing separately.
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 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

GB

(Contd. on page 6)

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

Printing date 25.01.2024

Version number 2.01 (replaces version 2.00)

Revision: 25.01.2024

Trade name: TENSAQUA F

(Contd. of page 5)

9 Physical and chemical properties

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

· **General Information**

· Physical state	Fluid
· Colour:	Brown
· 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	12.2
· Viscosity:	
· Kinematic viscosity	Not determined.
· Dynamic:	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:	1.226 g/cm ³
· 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

(Contd. on page 7)

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

Printing date 25.01.2024

Version number 2.01 (replaces version 2.00)

Revision: 25.01.2024

Trade name: TENSAQUA F

(Contd. of page 6)

· 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.
· 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** Harmful if swallowed.

· **LD/LC50 values relevant for classification:**

ATE (Acute Toxicity Estimates)

Oral	LD50	1,365 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 serious eye damage.
 · **Respiratory or skin sensitisation** May cause an allergic skin reaction.

(Contd. on page 8)

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

Printing date 25.01.2024

Version number 2.01 (replaces version 2.00)

Revision: 25.01.2024

Trade name: TENSAQUA F

(Contd. of page 7)

· **STOT-repeated exposure** *May cause damage to organs through prolonged or repeated exposure.*

· **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**

· **Additional ecological information:**

· **General notes:** *Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water*

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Must not reach sewage water or drainage ditch undiluted or unneutralised.

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.*

(Contd. on page 9)

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

Printing date 25.01.2024

Version number 2.01 (replaces version 2.00)

Revision: 25.01.2024

Trade name: TENSAQUA F

(Contd. of page 8)

· **Uncleaned packaging:**

· **Recommendation:**

Disposal must be made according to official regulations.

14 Transport information

· **14.2 UN proper shipping name**

· **ADR**

UN3266 CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (POTASSIUM HYDROXIDE)

· **IMDG, IATA**

CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (POTASSIUM HYDROXIDE)

· **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.

· **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. (POTASSIUM HYDROXIDE), 8, II

GB

(Contd. on page 10)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 25.01.2024

Version number 2.01 (replaces version 2.00)

Revision: 25.01.2024

Trade name: TENSAQUA F

(Contd. of page 9)

* 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: 1310-58-3	potassium hydroxide	17% 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**



GHS05 GHS07 GHS08

· **Signal word**

Danger

· **Hazard-determining components of labelling:**

potassium hydroxide
 hydroxyphosphonoacetic acid
 Derivate of acrylic acid copolymer

· **Hazard statements**

H302 Harmful if swallowed.
 H314 Causes severe skin burns and eye damage.
 H317 May cause an allergic skin reaction.
 H373 May cause damage to organs through prolonged or repeated exposure.

· **Precautionary statements**

P260 Do not breathe dusts or mists.
 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).

(Contd. on page 11)

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

Printing date 25.01.2024

Version number 2.01 (replaces version 2.00)

Revision: 25.01.2024

Trade name: TENSAQUA F

(Contd. of page 10)

P362+P364 Take off contaminated clothing and wash it before reuse.
P405 Store locked up.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I**
- **15.2 Chemical safety assessment:**

None of the ingredients is listed.

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**

H290 May be corrosive to metals.
H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H373 May cause damage to organs through prolonged or repeated exposure.
H412 Harmful to aquatic life with long lasting effects.

· **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)
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
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
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Skin Sens. 1: Skin sensitisation – Category 1

(Contd. on page 12)

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

Printing date 25.01.2024

Version number 2.01 (replaces version 2.00)

Revision: 25.01.2024

Trade name: TENSAQUA F

(Contd. of page 11)

STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

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

GB