

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

Printing date 25.01.2024

Version number 4.04 (replaces version 4.03)

Revision: 25.01.2024

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

· **1.1 Product identifier**

· **Trade name:** **TENSAMIN 75**

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

No further relevant information available.

· **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)

· **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:**

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**

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

Skin Irrit. 2 H315 Causes skin irritation.

Eye Dam. 1 H318 Causes serious eye damage.

Aquatic Acute 1 H400 Very toxic to aquatic life.

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.

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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-determining components of labelling:
N-(3-aminopropyl)-*N*-dodecylpropane-1,3-diamine
 Isotridecanol, ethoxylated 9EO
L-Lactic acid (2-hydroxy propionic acid)

Hazard statements

 H290 May be corrosive to metals.
 H315 Causes skin irritation.
 H318 Causes serious eye damage.
 H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements

 P234 Keep only in original packaging.
 P264 Wash thoroughly after handling.
 P273 Avoid release to the environment.
 P280 Wear eye protection / face protection.
 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.

Additional information:

 Contains biocidal products: *N*-(3-aminopropyl)-*N*-dodecylpropane-1,3-diamine





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: 2372-82-9 EINECS: 219-145-8	<i>N</i> -(3-aminopropyl)- <i>N</i> -dodecylpropane-1,3-diamine  STOT RE 2, H373;  Skin Corr. 1A, H314;  Aquatic Acute 1, H400;  Acute Tox. 4, H302	≥5- <10%
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CAS: 69011-36-5 Reg.nr.: 01-2119976362-32-XXXX	Isotridecanol, ethoxylated 9EO Eye Dam. 1, H318; Acute Tox. 4, H302	≥3–≤10%
CAS: 79-33-4 EINECS: 201-196-2	L-Lactic acid (2-hydroxy propionic acid) Skin Corr. 1C, H314; Eye Dam. 1, H318, EUH071	≥1–≤2.5%
CAS: 68891-38-3 NLP: 500-234-8	Alcohols, C12-14, ethoxylated, sulfates, sodium salts Skin Irrit. 2, H315; Eye Irrit. 2, H319	≤2.5%
CAS: 5538-95-4	N-dodecylpropan-1,3-diamine Skin Corr. 1C, H314; Eye Dam. 1, H318; Aquatic Acute 1, H400; Acute Tox. 4, H302	≥0.25–<1%

· **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

- **After inhalation:** Supply fresh air.
Seek medical treatment in case of complaints.
- **After skin contact:** If skin irritation continues, consult a doctor.
- **After eye contact:** Protect unharmed eye.
Seek immediate medical advice.
Rinse opened eye for several minutes under running water. Then consult a doctor.
- **After swallowing:** Rinse out mouth and then drink plenty of water.
Do not induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

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

Water spray
Alcohol resistant foam
Fire-extinguishing powder
Use fire extinguishing methods suitable to surrounding conditions.

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

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

· **5.3 Advice for firefighters**

· **Protective equipment:**

Wear self-contained respiratory protective device.

· **Additional information**

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

Cool endangered receptacles with water spray.

Collect contaminated fire fighting water separately. It must not enter the sewage system.

* **6 Accidental release measures**

· **6.1 Personal precautions, protective equipment and emergency procedures**

Use respiratory protective device against the effects of fumes/dust/aerosol.

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:**

Weak acid solution

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Use neutralising agent.

Dispose contaminated material as waste according to section 13.

· **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 interior ventilation, especially at floor level. (Fumes are heavier than air).

Do not refill residue into storage receptacles.

Keep receptacles tightly sealed.

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- **Information about fire - and explosion protection:** No special measures required.
- **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 foodstuffs.
- **Further information about storage conditions:** Store under lock and key and out of the reach of children.
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:** The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **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:** Use suitable respiratory protective device only when aerosol or mist is formed.
Filter ABEK-P3
- **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: ≥ 0.19 mm
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from

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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 6).

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:**

Impervious protective clothing
Protective work clothing

9 Physical and chemical properties

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

· **General Information**

· **Physical state**

Fluid

· **Colour:**

Yellow

· **Odour:**

Amine-like

· **Odour threshold:**

Not determined.

· **Melting point/freezing point:**

Undetermined.

· **Boiling point or initial boiling point and boiling range**

100 °C (CAS: 7732-18-5 water, distilled, conductivity or of similar purity)

· **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**

10

· **Viscosity:**

· **Kinematic viscosity at 40 °C**

6.92 mm²/s

· **Dynamic at 20 °C:**

5 mPas

· **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:**

1.02 g/cm³

· **Relative density**

Not determined.

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- **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.
- **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** May be corrosive to metals.
- **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 and stored according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** High temperatures and direct sunlight
- **10.5 Incompatible materials:** No further relevant information available.

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- **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	>2,655–3,429 mg/kg (rat)
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- **Skin corrosion/irritation** Causes skin irritation.
- **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:** Very toxic for fish
Toxic for fish
- **Additional ecological information:**
- **General notes:** This surfactant complies with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

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*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.*

Very toxic for aquatic organisms

Toxic for aquatic organisms

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**

*UN3267 CORROSIVE LIQUID, BASIC, ORGANIC,
N.O.S. (N-(3-aminopropyl)-N-dodecylpropane-1,3-
diamine, L-Lactic acid (2-hydroxy propionic acid)),
ENVIRONMENTALLY HAZARDOUS*

· **IMDG**

*CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.
(N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine,
L-Lactic acid (2-hydroxy propionic acid)), MARINE
POLLUTANT*

· **IATA**

*CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.
(N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine,
L-Lactic acid (2-hydroxy propionic acid))*

· **Class**

8 Corrosive substances.

· **Label**

8

· **ADR, IMDG, IATA**

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- **14.5 Environmental hazards:** *Product contains environmentally hazardous substances: N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine*
- **Marine pollutant:** *No*
- **Special marking (ADR):** *Symbol (fish and tree)*
- **14.6 Special precautions for user:** *Symbol (fish and tree)*
- **Hazard identification number (Kemler code):** *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):** *5L*
- **Excepted quantities (EQ):** *Code: E0*
- **Transport category:** *Not permitted as Excepted Quantity*
- **Tunnel restriction code:** *1*
- **Limited quantities (LQ):** *E*
- **Excepted quantities (EQ):** *5L*
- **UN "Model Regulation":** *Code: E0*
- **UN "Model Regulation":** *Not permitted as Excepted Quantity*
- **UN "Model Regulation":** *UN 3267 CORROSIVE LIQUID, BASIC, ORGANIC, N. O. S. (N-(3-AMINOPROPYL)-N-DODECYLPROPANE-1,3-DIAMINE, L-LACTIC ACID (2-HYDROXY PROPIONIC ACID)), 8, III, 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.

· **Reportable explosives precursors**

None of the ingredients is listed.

· **Reportable poisons**

None of the ingredients is listed.

· **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:**

N-(3-aminopropyl)-*N*-dodecylpropane-1,3-diamine
Isotridecanol, ethoxylated 9EO
L-Lactic acid (2-hydroxy propionic acid)

· **Hazard statements**

H290 May be corrosive to metals.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H410 Very toxic to aquatic life with long lasting effects.

· **Precautionary statements**

P234 Keep only in original packaging.
P264 Wash thoroughly after handling.
P273 Avoid release to the environment.
P280 Wear eye protection / face protection.
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.

· **Directive 2012/18/EU**

· **Named dangerous substances - ANNEX I**

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.

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H315 Causes skin irritation.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H373 May cause damage to organs through prolonged or repeated exposure.

H400 Very toxic to aquatic life.

EUH071 Corrosive to the respiratory tract.

· **Contact:**

Wim Lampaert

MSc Chemistry

· **Abbreviations and acronyms:**

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)

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. 1C: Skin corrosion/irritation – Category 1C

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

STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

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

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

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