

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended



Werner & Mertz  
Professional

## MANUDISH ESSENTIAL

WM 0715230

Order number: 0715230

Version 8.11

Revision Date 13.03.2025

Print Date 11.03.2026

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

#### 1.1 Product identifier

Trade name : MANUDISH ESSENTIAL  
UFI : QSU2-POCY-J00N-1CXH

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

Use of the Substance/Mixture : Cleaning agent  
Restricted to professional users.

#### 1.3 Details of the supplier of the safety data sheet

Company : Tana Chemie GmbH  
Rheinallee 96  
55120 Mainz  
Telephone : +49613196403  
Telefax : +4961319642526  
E-mail address : Produktsicherheit@werner-mertz.com  
Responsible/issuing person  
Contact person : Product development / product safety

#### 1.4 Emergency telephone number

EU: 112

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### Classification (REGULATION (EC) No 1272/2008)

Skin irritation, Category 2 H315: Causes skin irritation.

Eye irritation, Category 2 H319: Causes serious eye irritation.

#### 2.2 Label elements

##### Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word : Warning

Hazard statements : H315 Causes skin irritation.  
H319 Causes serious eye irritation.

Precautionary statements : P102 Keep out of reach of children.

##### Response:

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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P337 + P313

If eye irritation persists: Get medical advice/  
attention.

Safety data sheet available on request.

### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

#### Components

| Chemical name   | CAS-No.<br>EC-No.<br>Index-No.<br>Registration number | Classification  | Concentration<br>(% w/w) |
|---|---|---|--------------------------|
| Alcohols, C12-14, ethoxylated, sulfates, sodium salts   | 68891-38-3<br>500-234-8<br>01-2119488639-16           | Skin Irrit. 2; H315<br>Eye Dam. 1; H318<br>Aquatic Chronic 3;<br>H412<br><br>specific concentration<br>limit<br>Eye Irrit. 2; H319<br>5 - < 10 %<br>Eye Dam. 1; H318<br>>= 10,0 %<br>Skin Irrit. 2; H315<br>>= 10 % | >= 10 - < 20             |
| 1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18 and C18-unsatd. acyl) derivs., hydroxides, inner salts | 147170-44-3<br>931-333-8<br>01-2119489410-39          | Eye Dam. 1; H318<br>Aquatic Chronic 3;<br>H412<br><br>specific concentration<br>limit<br>Eye Irrit. 2; H319<br>> 4 - 10 %<br>Eye Irrit. 1; H318<br>> 10 %   | >= 4 - < 10              |
| sodium octyl sulphate   | 142-31-4<br>205-535-5<br>01-2119966154-35             | Skin Irrit. 2; H315<br>Eye Dam. 1; H318<br><br>specific concentration<br>limit<br>Eye Irrit. 2; H319<br>10 - < 20 %<br>Eye Dam. 1; H318<br>>= 20,0 %  | >= 1 - < 3               |

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### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

- General advice : Move out of dangerous area.  
Consult a physician.  
Show this safety data sheet to the doctor in attendance.
- If inhaled : Move to fresh air.  
If symptoms persist, call a physician.
- In case of skin contact : Take off contaminated clothing and shoes immediately.  
Wash off with soap and plenty of water.  
If symptoms persist, call a physician.
- In case of eye contact : Protect unharmed eye.  
If easy to do, remove contact lens, if worn.  
Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.  
If eye irritation persists, consult a specialist.
- If swallowed : Clean mouth with water and drink afterwards plenty of water.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.  
Obtain medical attention.

#### 4.2 Most important symptoms and effects, both acute and delayed

- Symptoms : Irritation
- Risks : No information available.

#### 4.3 Indication of any immediate medical attention and special treatment needed

- Treatment : For specialist advice physicians should contact the Poisons Information Service.

### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

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

- Specific hazards during firefighting : Do not allow run-off from fire fighting to enter drains or water courses.
- Hazardous combustion products : No hazardous combustion products are known

#### 5.3 Advice for firefighters

- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.
- Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

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Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

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### SECTION 6: Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.  
Ensure adequate ventilation.

#### 6.2 Environmental precautions

Environmental precautions : Do not flush into surface water or sanitary sewer system.

#### 6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).  
Keep in suitable, closed containers for disposal.

#### 6.4 Reference to other sections

For personal protection see section 8., Treat recovered material as described in the section "Disposal considerations"., Refer to section 15 for specific national regulation.

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### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

Advice on safe handling : Avoid contact with skin and eyes.  
For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.  
Dispose of rinse water in accordance with local and national regulations.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink. When using do not smoke.  
Wash hands before breaks and at the end of workday.

#### 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Store in original container. Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container.

Further information on storage stability : No decomposition if stored and applied as directed.

#### 7.3 Specific end use(s)

Specific use(s) : Cleaning agent

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### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

Contains no substances with occupational exposure limit values.

**Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:**

| Substance name   | End Use   | Exposure routes | Potential health effects   | Value             |
|--|-----------|-----------------|----------------------------|-------------------|
| Alcohols, C12-14, ethoxylated, sulfates, sodium salts, Poly(oxy-1,2-ethanediyl), .alpha.-sulfo-.omega.-hydroxy-, C12-14-alkyl ethers, sodium salts | Workers   | Skin contact    | Long-term systemic effects | 2750 mg/kg bw/day |
|  | Workers   | Inhalation      | Long-term systemic effects | 175 mg/m3         |
|  | Consumers | Skin contact    | Long-term systemic effects | 1650 mg/kg bw/day |
|  | Consumers | Inhalation      | Long-term systemic effects | 52 mg/m3          |
|  | Consumers | Ingestion       | Long-term systemic effects | 15 mg/kg bw/day   |
|  | Consumers | Skin contact    | Long-term local effects    | 0,079 mg/cm2      |
| 1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18 and C18-unsatd. acyl) derivs., hydroxides, inner salts                          | Workers   | Inhalation      | Long-term systemic effects | 44 mg/m3          |
|  | Workers   | Dermal          | Long-term systemic effects | 12,5 mg/kg        |
|  | Consumers | Oral            | Long-term systemic effects | 7,5 mg/kg         |
| sodium octyl sulphate  | Consumers | Dermal          | Long-term systemic effects | 7,5 mg/kg         |
|  | Workers   | Skin contact    | Long-term systemic effects | 4060 mg/kg        |
|  | Workers   | Inhalation      | Long-term systemic effects | 285 mg/m3         |

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|                 |              |              |                            |                           |
|-----------------|--------------|--------------|----------------------------|---------------------------|
|                 | Consumers    | Skin contact | Long-term systemic effects | 2440 mg/kg                |
|                 | Consumers    | Inhalation   | Long-term systemic effects | 85 mg/m <sup>3</sup>      |
|                 | Consumers    | Ingestion    | Long-term systemic effects | 24 mg/kg                  |
| sodium chloride | Workers      | Skin contact | Acute systemic effects     | 295,52 mg/kg bw/day       |
|                 | Workers      | Inhalation   | Acute systemic effects     | 2068,62 mg/m <sup>3</sup> |
|                 | Workers      | Skin contact | Long-term systemic effects | 295,52 mg/kg bw/day       |
|                 | Workers      | Inhalation   | Long-term systemic effects | 2068,62 mg/m <sup>3</sup> |
|                 | Consumer use | Skin contact | Acute systemic effects     | 126,65 mg/kg              |
|                 | Consumer use | Inhalation   | Acute systemic effects     | 443,28 mg/m <sup>3</sup>  |
|                 | Consumer use | Ingestion    | Acute systemic effects     | 126,65 mg/kg              |
|                 | Consumer use | Oral         | Long-term systemic effects | 126,65 mg/kg bw/day       |
|                 | Consumer use | Inhalation   | Long-term systemic effects | 443,28 mg/m <sup>3</sup>  |
|                 | Consumer use | Skin contact | Long-term systemic effects | 126,65 mg/kg bw/day       |

### Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

| Substance name   | Environmental Compartment | Value       |
|--|---------------------------|-------------|
| Alcohols, C12-14, ethoxylated, sulfates, sodium salts, Poly(oxy-1,2-ethanediyl), .alpha.-sulfo-.omega.-hydroxy-, C12-14-alkyl ethers, sodium salts | Fresh water               | 0,24 mg/l   |
|  | Marine water              | 0,024 mg/l  |
|  | Soil                      | 7,5 mg/kg   |
|  | STP                       | 10000 mg/l  |
|  | intermittent release      | 0,071 mg/l  |
|  | Marine sediment           | 0,092 mg/kg |

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|   |                      |                              |
|---|----------------------|------------------------------|
|   | Fresh water sediment | 0,917 mg/kg                  |
| 1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18 and C18-unsatd. acyl) derivs., hydroxides, inner salts | Fresh water          | 0,0135 mg/l                  |
|   | Marine water         | 0,00135 mg/l                 |
|   | Fresh water sediment | 1 mg/kg                      |
|   | Marine sediment      | 0,1 mg/kg                    |
|   | STP                  | 3000 mg/l                    |
|   | Soil                 | 0,8 mg/kg                    |
| sodium octyl sulphate   | Fresh water          | 0,1357 mg/l                  |
|   | Marine water         | 0,01357 mg/l                 |
|   | STP                  | 1,35 mg/l                    |
|   | Fresh water sediment | 1,5 mg/kg                    |
|   | Marine sediment      | 0,15 mg/kg                   |
|   | Soil                 | 0,22 mg/kg                   |
| sodium chloride   | Fresh water          | 5 mg/l                       |
|   | Soil                 | 4,86 mg/kg dry weight (d.w.) |
|   | STP                  | 500 mg/l                     |

### 8.2 Exposure controls

#### Personal protective equipment

Eye/face protection : If splashes are likely to occur, wear:  
 Tightly fitting safety goggles

Hand protection

Material : For prolonged or repeated contact use protective gloves.

It is suggested the usage of chemical resistant gloves made of butyl rubber or nitrile rubber category III according to EN 374.

As alternative, a different type of gloves might be used if, accordingly to the recommendations of the producer, guarantee the

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same level of protection.

Remarks : Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).

Skin and body protection : not required under normal use

Respiratory protection : Not required; except in case of aerosol formation.

Recommended Filter type:

ABEK-P3-filter

### SECTION 9: Physical and chemical properties

#### 9.1 Information on basic physical and chemical properties

Physical state : liquid

Colour : green

Odour : pleasant

Melting point/freezing point : No data available

Boiling point/boiling range : No data available

Flammability (solid, gas) : No data available

Flammability (liquids) : No data available

Lower explosion limit : No data available

Upper explosion limit : No data available

Flash point : does not flash

Ignition temperature : No data available

Decomposition temperature : No data available

pH : ca. 5,2, 100 %  
at 20 °C

Viscosity, dynamic : ca. 1.000 mPa.s at 20 °C

Viscosity, kinematic : No data available

Water solubility : soluble

Solubility in other solvents : No data available

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|  |   |                                      |
|--|---|--------------------------------------|
| Partition coefficient: n-octanol/water | : | No data available                    |
| Vapour pressure                        | : | No data available                    |
| Density                                | : | ca. 1,036 g/cm <sup>3</sup> at 20 °C |
| Relative density                       | : | No data available                    |
| Relative vapour density                | : | No data available                    |
| Particle characteristics               | : | No data available                    |

### 9.2 Other information

none

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Stable under recommended storage conditions.  
No dangerous reaction known under conditions of normal use.

### 10.2 Chemical stability

No decomposition if stored and applied as directed.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : Stable under recommended storage conditions.  
No decomposition if used as directed.

### 10.4 Conditions to avoid

Conditions to avoid : No data available

### 10.5 Incompatible materials

Materials to avoid : No data available

### 10.6 Hazardous decomposition products

No hazardous decomposition products are known.

## SECTION 11: Toxicological information

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Our company is strongly against animal testing.  
Our company does not place any orders for animal testing for the finished product or the ingredients.  
However, as a result of EU legislation (REACH Regulation), the manufacturers of ingredients or EU importers are obliged to test ingredients with regard to their effects on human health and the environment before they are brought onto the market. Some of the tests made necessary by this took place decades ago.

#### Acute toxicity

Acute toxicity : Not Rated

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### Components:

#### Alcohols, C12-14, ethoxylated, sulfates, sodium salts

##### 68891-38-3:

Acute oral toxicity : LD50 Oral (Rat): 4.100 mg/kg  
Method: OECD Test Guideline 401  
GLP: no

LD50 Oral (Rat): 2.870 mg/kg  
Method: OECD Test Guideline 401

LD50 (Rat): 7.400 mg/kg  
Method: OECD Test Guideline 401

LD50 (Rat): 2.000 - 5.000 mg/kg  
Method: OECD Test Guideline 401

LD50 (Rat): > 2.000 mg/kg

Acute dermal toxicity : LD50 (Rat): > 2.000 mg/kg  
Method: OECD Test Guideline 402  
GLP: yes

#### 1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18 and C18-unsatd. acyl) derivs., hydroxides, inner salts

##### 147170-44-3:

Acute oral toxicity : LD50 Oral (Rat): > 5.000 mg/kg  
Method: OECD Test Guideline 401

LD50 Oral (Rat): 2.335 mg/kg

LD50 (Rat): > 2.000 mg/kg  
Method: OECD Test Guideline 402

Acute dermal toxicity : LD50 Dermal (Rat): > 2.000 mg/kg  
Method: OECD Test Guideline 402

#### sodium octyl sulphate

##### 142-31-4:

Acute oral toxicity : LD50 Oral (Rat): > 2.000 mg/kg  
Method: OECD Test Guideline 423

Acute dermal toxicity : LD50 Dermal (Rabbit): > 2.000 mg/kg  
Method: OECD Test Guideline 402

### Skin corrosion/irritation

#### Product:

Remarks : May cause skin irritation and/or dermatitis.

### Components:

#### Alcohols, C12-14, ethoxylated, sulfates, sodium salts

##### 68891-38-3:

Species : Rabbit  
Assessment : Irritating to skin.

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Method : OECD Test Guideline 404

**1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18 and C18-unsatd. acyl) derivs., hydroxides, inner salts**

**147170-44-3:**

Species : Rabbit  
Method : OECD Test Guideline 404  
Result : No skin irritation

**sodium octyl sulphate**

**142-31-4:**

Result : Skin irritation

**Serious eye damage/eye irritation**

**Product:**

Remarks : Vapours may cause irritation to the eyes, respiratory system and the skin.  
Causes serious eye irritation.

**Components:**

**Alcohols, C12-14, ethoxylated, sulfates, sodium salts**

**68891-38-3:**

Species : Rabbit  
Assessment : Risk of serious damage to eyes.  
Method : OECD Test Guideline 405

**1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18 and C18-unsatd. acyl) derivs., hydroxides, inner salts**

**147170-44-3:**

Result : Causes serious eye damage.

**sodium octyl sulphate**

**142-31-4:**

Result : Causes serious eye damage.

**Respiratory or skin sensitisation**

**Product:**

Remarks : No data available

**Components:**

**Alcohols, C12-14, ethoxylated, sulfates, sodium salts**

**68891-38-3:**

Result : Does not cause skin sensitisation.

**1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18 and C18-unsatd. acyl) derivs., hydroxides, inner salts**

**147170-44-3:**

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Species : Guinea pig  
Method : OECD Test Guideline 406  
Result : Not a skin sensitizer.

### Germ cell mutagenicity

Germ cell mutagenicity : Not Rated

### Components:

#### Alcohols, C12-14, ethoxylated, sulfates, sodium salts

##### 68891-38-3:

Genotoxicity in vitro : Method: OECD Test Guideline 471  
Result: negative

Carcinogenicity : Not Rated

Reproductive toxicity : Not Rated

STOT - single exposure : The substance or mixture is not classified as specific target organ toxicant, single exposure.

STOT - repeated exposure : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

### Repeated dose toxicity

#### Components:

##### sodium octyl sulphate

##### 142-31-4:

Species : Rat  
NOAEL : 488 mg/kg  
Application Route : Oral  
Method : OECD Test Guideline 408

Species : Rat  
LOAEL : 1016 mg/kg  
Application Route : Oral  
Method : OECD Test Guideline 408

Species : Mouse  
NOAEL : 400 mg/kg  
Application Route : Dermal  
Method : OECD Test Guideline 411

Aspiration toxicity : Not Rated

## 11.2 Information on other hazards

### Further information

#### Product:

Remarks : No data available

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### SECTION 12: Ecological information

#### 12.1 Toxicity

##### Components:

**Alcohols, C12-14, ethoxylated, sulfates, sodium salts, Poly(oxy-1,2-ethanediyl), .alpha.-sulfo-omega.-hydroxy-, C12-14-alkyl ethers, sodium salts**

##### **68891-38-3:**

- Toxicity to fish : LC50 (Danio rerio (zebra fish)): 7,1 mg/l  
Exposure time: 96 h  
Test Type: flow-through test  
Method: OECD Test Guideline 203  
GLP: yes
- LC50 (Fish): > 1 - 10 mg/l  
Test Type: semi-static test  
Method: OECD Test Guideline 203
- LC50 (Leuciscus idus (Golden orfe)): 10 - 100 mg/l  
Method: OECD Test Guideline 203
- NOEC (Oncorhynchus mykiss (rainbow trout)): 0,14 mg/l  
Exposure time: 28 d  
Test Type: flow-through test  
Method: OECD Test Guideline 204
- LC50 (Brachydanio rerio (zebrafish)): 1 - 10 mg/l  
Test Type: flow-through test  
Method: OECD Test Guideline 203
- LC50 (Brachydanio rerio (zebrafish)): 7,1 mg/l  
Exposure time: 96 h
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia pulex (Water flea)): 7,4 mg/l  
Exposure time: 48 h  
Test Type: Immobilization  
Method: OECD Test Guideline 202
- EC50 (Daphnia magna (Water flea)): > 1 - 10 mg/l  
Exposure time: 48 h  
Test Type: static test  
Method: OECD Test Guideline 202
- NOEC (Daphnia magna (Water flea)): 0,27 mg/l  
Exposure time: 21 d  
Test Type: flow-through test  
Method: OECD Test Guideline 211
- (Daphnia magna (Water flea)): 7,2 mg/l  
Exposure time: 48 h
- LC50 : 1,17 mg/l  
Exposure time: 96 h
- EC50 : 7,2 mg/l  
Exposure time: 48 h
- Toxicity to algae/aquatic plants : EC50 (Desmodesmus subspicatus (green algae)): 27,7 mg/l  
Exposure time: 72 h

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Test Type: Growth inhibition  
Method: OECD Test Guideline 201  
GLP: yes

EC50 (*Scenedesmus subspicatus*): 10 - 100 mg/l  
Method: OECD Test Guideline 201

EC50 (*Desmodesmus subspicatus* (green algae)): > 10 - 100 mg/l  
Exposure time: 72 h  
Test Type: static test  
Method: OECD Test Guideline 201

NOEC : 0,95 mg/l  
Test Type: Growth inhibition  
Method: OECD Test Guideline 201

NOEC (*Desmodesmus subspicatus* (green algae)): 0,93 mg/l  
Exposure time: 72 h  
Test Type: static test  
Method: OECD Test Guideline 201

ErC50 (algae): 27 mg/l  
Exposure time: 72 h

NOEC (algae): 0,93 mg/l  
Exposure time: 72 h

Toxicity to microorganisms : EC50 (*Pseudomonas putida*): > 10 g/l  
Exposure time: 16 h  
Test Type: Cell multiplication inhibition test  
Method: DIN 38412  
GLP: yes

EC10 (*Pseudomonas putida*): > 10 g/l  
Test Type: Cell multiplication inhibition test

Toxicity to fish (Chronic toxicity) : NOEC: 1 - 10 mg/l  
Species: *Leuciscus idus* (Golden orfe)  
  
NOEC: 0,14 mg/l  
Exposure time: 28 d  
Species: *Oncorhynchus mykiss* (rainbow trout)  
Method: OECD Test Guideline 204

NOEC: 0,2 mg/l  
Exposure time: 28 d  
Species: Fish

NOEC: > 0,1 - 1 mg/l  
Exposure time: 28 d  
Species: *Oncorhynchus mykiss* (rainbow trout)  
Method: OECD Test Guideline 204

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: > 0,1 - 1 mg/l  
Exposure time: 21 d  
Species: *Daphnia magna* (Water flea)  
Method: OECD Test Guideline 211

EC50: 0,37 mg/l  
Exposure time: 21 d

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0,74 mg/l  
Exposure time: 21 d

NOEC: 0,27 mg/l  
Exposure time: 21 d

Toxicity to soil dwelling organisms : NOEC: 750 mg/kg  
Exposure time: 96 d  
Species: Eisenia fetida (earthworms)  
Method: OECD Test Guideline 222

### 1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18 and C18-unsatd. acyl) derivs., hydroxides, inner salts

#### 147170-44-3:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 2 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

LC50 (Brachydanio rerio): > 1 - 10 mg/l  
Method: ISO 7346/2

NOEC (Oncorhynchus mykiss (rainbow trout)): > 0,1 - 1 mg/l

LC50 (Fish): 1,1 mg/l

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 1 - 10 mg/l  
Method: OECD Test Guideline 202

NOEC (Daphnia magna (Water flea)): > 0,1 - 1 mg/l  
Method: OECD Test Guideline 211

Toxicity to algae/aquatic plants : EC50 (Desmodesmus subspicatus (green algae)): > 1 - 10 mg/l  
Method: OECD Test Guideline 201

ErC50 (algae): 2,4 mg/l

Toxicity to microorganisms : EC0 (Pseudomonas putida): > 100 mg/l  
Method: OECD Test Guideline 209

Toxicity to fish (Chronic toxicity) : NOEC: > 0,1 - 1 mg/l  
Species: Oncorhynchus mykiss (rainbow trout)  
Method: OECD Test Guideline 210

NOEC: 0,135 mg/l

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: > 0,1 - 1 mg/l  
Species: Daphnia magna (Water flea)  
Method: OECD Test Guideline 211

### sodium octyl sulphate

#### 142-31-4:

Toxicity to fish : LC50 (Brachydanio rerio (zebrafish)): > 100 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 100 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202

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|  |   |  |
|--|---|--|
| Toxicity to algae/aquatic plants                                       | : | EC50 : > 100 mg/l<br>EC50 (Desmodesmus subspicatus (green algae)): > 511 mg/l<br>Exposure time: 72 h                       |
| Toxicity to microorganisms   | : | EC0 : > 100 mg/l   |
| Toxicity to fish (Chronic toxicity)                                    | : | Lowest Observed Effect Concentration: > 1,357 mg/l<br>Exposure time: 42 d<br>Species: Pimephales promelas (fathead minnow) |
| Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) | : | NOEC: 1,4 mg/l<br>Exposure time: 21 d<br>Species: Daphnia magna (Water flea)<br>Method: OECD Test Guideline 211            |

### 12.2 Persistence and degradability

#### Product:

Biodegradability : Remarks: The surfactant(s) contained in this preparation complies (comply) with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents.

#### Components:

**Alcohols, C12-14, ethoxylated, sulfates, sodium salts, Poly(oxy-1,2-ethanediyl), .alpha.-sulfo-omega.-hydroxy-, C12-14-alkyl ethers, sodium salts**

##### **68891-38-3:**

Biodegradability : Test Type: aerobic  
Result: rapidly biodegradable  
Biodegradation: > 70 %  
Exposure time: 28 d  
Method: OECD 301 A

Test Type: anaerobic  
Result: Biodegradable  
Biodegradation: > 60 %  
Exposure time: 41 d

**1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18 and C18-unsatd. acyl) derivs., hydroxides, inner salts**

##### **147170-44-3:**

Biodegradability : Result: rapidly biodegradable  
Biodegradation: 86 %  
Method: OECD 301 D

Biochemical Oxygen Demand (BOD) : 365 mg/g  
Method: see user defined free text

Chemical Oxygen Demand (COD) : 704 mg/g  
Method: DIN 38409-H-41

#### **sodium octyl sulphate**

##### **142-31-4:**

Biodegradability : Biodegradation: 98,2 %  
Remarks: Expected to be biodegradable

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### 12.3 Bioaccumulative potential

#### Components:

Alcohols, C12-14, ethoxylated, sulfates, sodium salts, Poly(oxy-1,2-ethanediyl), .alpha.-sulfo.-omega.-hydroxy-, C12-14-alkyl ethers, sodium salts

68891-38-3:

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

### 12.4 Mobility in soil

No data available

### 12.5 Results of PBT and vPvB assessment

#### Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

#### Components:

Alcohols, C12-14, ethoxylated, sulfates, sodium salts, Poly(oxy-1,2-ethanediyl), .alpha.-sulfo.-omega.-hydroxy-, C12-14-alkyl ethers, sodium salts

68891-38-3:

Assessment : This substance is not considered to be very persistent and very bioaccumulating (vPvB).. This substance is not considered to be persistent, bioaccumulating and toxic (PBT).

### 12.6 Endocrine disrupting properties

No data available

### 12.7 Other adverse effects

#### Product:

Additional ecological information : There is no data available for this product.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

- Product : Do not dispose of waste into sewer.  
Do not contaminate ponds, waterways or ditches with chemical or used container.  
In accordance with local and national regulations.
- Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.  
Do not re-use empty containers.
- Waste Code : European Waste Catalogue  
20 01 29\*  
According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.

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### SECTION 14: Transport information

#### 14.1 UN number or ID number

**ADR**

Not dangerous goods

**IMDG**

Not dangerous goods

**IATA**

Not dangerous goods

#### 14.2 UN proper shipping name

Not regulated as a dangerous good

#### 14.3 Transport hazard class(es)

**ADR**

Not dangerous goods

**IMDG**

Not dangerous goods

**IATA**

Not dangerous goods

#### 14.4 Packing group

**ADR**

Not dangerous goods

**IMDG**

Not dangerous goods

**IATA**

Not dangerous goods

#### 14.5 Environmental hazards

**ADR**

Not dangerous goods

**IMDG**

Not regulated as a dangerous good

**IATA**

Not dangerous goods

#### 14.6 Special precautions for user

Remarks : Not classified as dangerous in the meaning of transport regulations.

For personal protection see section 8.

#### 14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

### SECTION 15: Regulatory information

#### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals : Not applicable

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) : See Annex XVII to Regulation (EC) no 1907/2006 for Conditions of restriction

Seveso III: Directive 2012/18/EU of the European Parliament and of : Not applicable

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the Council on the control of major-accident hazards involving dangerous substances.

|  |  |
|--|--|
| TA Luft List (Germany)                         | : Total dust: Not applicable<br>: Inorganic substances in powdered form: Not applicable<br>: Inorganic substances in vapour or gaseous form: : portionClass 3: 1,02 %<br>: Organic Substances: Not applicable<br>: Carcinogenic substances: Not applicable<br>: Mutagenic: Not applicable<br>: Toxic to reproduction: Not applicable |
| Volatile organic compounds (VOC) content       | : Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control)<br>Update: Not applicable   |
| according to Detergents Regulation EC 648/2004 | : 5 - <15% anionic surfactants, amphoteric surfactants, <5% non-ionic surfactants, SODIUM BENZOATE   |

### 15.2 Chemical safety assessment

#### SECTION 16: Other information

##### Full text of H-Statements

|      |  |
|------|--|
| H315 | : Causes skin irritation.                            |
| H318 | : Causes serious eye damage.                         |
| H412 | : Harmful to aquatic life with long lasting effects. |

##### Full text of other abbreviations

|                 |                                      |
|-----------------|--------------------------------------|
| Aquatic Chronic | : Long-term (chronic) aquatic hazard |
| Eye Dam.        | : Serious eye damage                 |
| Skin Irrit.     | : Skin irritation                    |

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical

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Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

### Further information

#### Classification of the mixture:

|               |      |
|---------------|------|
| Skin Irrit. 2 | H315 |
| Eye Irrit. 2  | H319 |

#### Classification procedure:

|                        |
|------------------------|
| On basis of test data. |
| Calculation method     |

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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