

SAFETY DATA SHEET

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



SYSTEM TENSIO

WM 0713279

Order number: 0713279

Version 7.1

Revision Date 16.07.2026

Print Date 16.07.2026

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

1.1 Product identifier

Trade name : SYSTEM TENSIO
UFI : UP2A-P0G9-C009-6PPS

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

EU: 112

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Skin corrosion, Sub-category 1B H314: Causes severe skin burns and eye damage.

Serious eye damage, Category 1 H318: Causes serious eye damage.

2.2 Label elements

Labeling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal Word : Danger

Hazard Statements : H314 Causes severe skin burns and eye damage.

Precautionary Statements : P102 Keep out of reach of children.

Prevention:

P280

Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:

P305 + P351 + P338 + P310

IF IN EYES: Rinse cautiously with

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Disposal:
P501

water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.

Dispose of container into the collection of recyclables only when it is completely empty.

Hazardous ingredients which must be listed on the label:

Alcohols, C12-14. ethoxylated
potassium hydroxide

Additional Labeling:

Safety data sheet available on request.

EUH208 Contains 1,2-benzisothiazol-3(2H)-one. May produce an allergic reaction.

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.

Ecological information: 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.

Toxicological information: 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.

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

Chemical nature : Aqueous surfactant solution.

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Alcohols, C12-14. ethoxylated	68439-50-9 500-213-3	Eye Irrit. 2; H319 Aquatic Acute 1; H400 Aquatic Chronic 3; H412 M-Factor (Acute aquatic toxicity): 1	>= 2,5 - < 3
Alcohols, C12-14. ethoxylated	68439-50-9 500-213-3	Eye Dam. 1; H318 Aquatic Chronic 3; H412 Acute Tox. 4; H302	>= 1 - < 2,5
potassium hydroxide	1310-58-3 215-181-3	Acute Tox. 4; H302 Skin Corr. 1A; H314	>= 2 - < 3

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	019-002-00-8 01-2119487136-33	Met. Corr. 1; H290 Eye Dam. 1; H318 specific concentration limit Skin Corr. 1A; H314 ≥ 5 % Skin Corr. 1B; H314 2 - < 5 % Skin Irrit. 2; H315 0,5 - < 2 % Eye Irrit. 2; H319 0,5 - < 2 % Acute toxicity estimate Acute oral toxicity: 500,0 mg/kg	
sodium hydroxide	1310-73-2 215-185-5 011-002-00-6 01-2119457892-27	Met. Corr. 1; H290 Skin Corr. 1A; H314 Eye Dam. 1; H318 specific concentration limit Skin Corr. 1A; H314 ≥ 5 % Skin Corr. 1B; H314 2 - < 5 % Skin Irrit. 2; H315 0,5 - < 2 % Eye Irrit. 2; H319 0,5 - < 2 %	≥ 0,5 - < 1
1,2-benzisothiazol-3(2H)-one	2634-33-5 220-120-9 613-088-00-6 01-2120761540-60	Eye Dam. 1; H318 Skin Sens. 1A; H317 Aquatic Acute 1; H400 Acute Tox. 2; H330 Acute Tox. 4; H302 Skin Irrit. 2; H315 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 11 M-Factor (Chronic aquatic toxicity): 11 specific concentration limit Skin Sens. 1A; H317 ≥ 0,036 % Skin Irrit. 2; H315 ≥ 10 % Eye Dam. 1; H318 ≥ 3 % Eye Irrit. 2; H319 1 - < 3 % Aquatic Acute 1; H400	≥ 0,0025 - < 0,025

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		>= 25 % Aquatic Chronic 2; H411 >= 25 % Aquatic Chronic 3; H412 2,5 - < 25 % Acute toxicity estimate Acute oral toxicity: 500,0 mg/kg 450 mg/kg Acute inhalation toxicity (dust/mist): 0,21 mg/l	
Substances with a workplace exposure limit :			
propane-1,2-diol	57-55-6 200-338-0 01-2119456809-23		>= 1 - < 3

SECTION 4: First aid measures

4.1 Description of first-aid measures

- General advice : Move out of dangerous area.
Consult a physician.
Show this material safety data sheet to the doctor in attendance.
- If inhaled : Move to fresh air.
Consult a physician after significant exposure.
- In case of skin contact : Take off contaminated clothing and shoes immediately.
Wash off with soap and plenty of water.
Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty.
- In case of eye contact : Small amounts splashed into eyes can cause irreversible tissue damage and blindness.
Protect unharmed eye.
Continue rinsing eyes during transport to hospital.
- If swallowed : Clean mouth with water and drink afterwards plenty of water.
Do NOT induce vomiting.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
Take victim immediately to hospital.

4.2 Most important symptoms and effects, both acute and delayed

- Symptoms : corrosive effects
- Risks : No information available.

Causes serious eye damage.
Causes severe burns.

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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 fire fighting : Do not allow run-off from fire fighting to enter drains or water courses.

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

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.
Ensure adequate ventilation.
Evacuate personnel to safe areas.

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.
To avoid spills during handling keep bottle on a metal tray.
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. Containers which are opened must be carefully resealed and kept upright to prevent leakage. 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

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	Routes of exposure	Potential health effects	Value
propane-1,2-diol	Workers	Inhalation	Long-term systemic effects	168 mg/m3
	Workers	Inhalation	Long-term local effects	10 mg/m3
	Consumers	Inhalation	Long-term systemic effects	50 mg/m3
	Consumers	Inhalation	Long-term local effects	10 mg/m3
	Consumers	Skin contact	Long-term systemic effects	213 mg/m3
	Consumers	Ingestion	Long-term systemic	85 mg/m3

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			effects	
potassium hydroxide	Workers	Inhalation	Long-term local effects	1 mg/m ³
	Consumers	Inhalation	Long-term local effects	1 mg/m ³
sodium hydroxide	Workers	Inhalation	Long-term local effects	1,0 mg/m ³
	Workers	Inhalation	Long-term systemic effects, Long-term local effects	1,5 mg/m ³
	Workers	Inhalation	Short-term exposure, Local effects, Systemic effects	3 mg/m ³
	Consumers	Inhalation	Long-term local effects, Long-term systemic effects	0,6 mg/m ³
	Consumers	Inhalation	Short-term exposure, Local effects, Systemic effects	1,2 mg/m ³
	Consumers	Ingestion	Long-term local effects, Long-term systemic effects	25 mg/m ³

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

Substance name	Environmental Compartment	Value
propane-1,2-diol	Fresh water	260 mg/l
	Sea water	26 mg/l
	Fresh water sediment	572 mg/kg dry weight (d.w.)
	Sea sediment	57,2 mg/kg dry weight (d.w.)
	Soil	50 mg/kg
	intermittent release	183 mg/l
	STP	20000 mg/l

8.2 Exposure controls

Personal protective equipment

Eye/face protection : Tightly fitting safety goggles

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Hand protection

Material : Chemical resistant gloves made of butyl rubber or nitrile rubber category III according to EN 374.

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 : Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Remove and wash contaminated clothing before re-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
Color	: blue
Odor	: characteristic
Melting point/freezing point	: No data available
Boiling point/boiling range	: No information 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	: > 100 °C Method: ASTM D 56, closed cup
Ignition temperature	: No data available
Decomposition temperature	: No data available

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pH	: ca. 12, 100 % at 20 °C
Viscosity, dynamic	: No data available
Viscosity, kinematic	: No data available
Water solubility	: soluble
Solubility in other solvents	: No data available
Partition coefficient: n- octanol/water	: No data available
Vapor pressure	: No data available
Density	: ca. 1,010 g/cm ³
Relative density	: No data available
Relative vapor 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.

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Acute toxicity

Not classified due to lack of data.

Product:

Acute oral toxicity : Acute toxicity estimate: > 2.000 mg/kg
Method: Calculation method

Components:

Alcohols, C12-14. ethoxylated

68439-50-9:

Acute oral toxicity : LD50 Oral (Rat): > 2.000 mg/kg

potassium hydroxide

1310-58-3:

Acute oral toxicity : LD50 (Rat): 273 mg/kg

Acute toxicity estimate: 500,0 mg/kg
Method: Converted acute toxicity point estimate

LD50 Oral (Rat, male): 333 mg/kg
Method: OECD Test Guideline 425

sodium hydroxide

1310-73-2:

Acute oral toxicity : LD50 Oral (Rat): 2.000 mg/kg

1,2-benzisothiazol-3(2H)-one

2634-33-5:

Acute oral toxicity : LD50 (Rat): 1.150 mg/kg

Acute toxicity estimate: 500,0 mg/kg
Method: Converted acute toxicity point estimate

LD50 (Rat): 1.193 mg/kg

LD50 (Rat, male and female): 784 mg/kg
Method: OECD Test Guideline 401
GLP: yes

LD50 (Rat): 490 mg/kg

LD50 (Rat): 670 mg/kg

Acute toxicity estimate: 450 mg/kg
Method: Acute toxicity estimate according to Regulation (EC) No. 1272/2008

Acute inhalation toxicity : LC50 (Rat): 0,25 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist

LC50 (Rat): 0,5 mg/l

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Exposure time: 4 h
Test atmosphere: dust/mist
Method: OPPTS 870.1300
GLP: yes

LC50 (Rat): 0,11 mg/l
Test atmosphere: dust/mist

Acute toxicity estimate: 0,21 mg/l
Test atmosphere: dust/mist
Method: Acute toxicity estimate according to Regulation (EC) No. 1272/2008

Acute dermal toxicity : LD50 (Rat): 4.115 mg/kg

LD50 (Rat, male and female): > 2.000 mg/kg
GLP: yes

LD50 Dermal (Rabbit): > 2.000 mg/kg

propane-1,2-diol

57-55-6:

Acute oral toxicity : LD50 (Rat, male and female): 22.000 mg/kg

LD50 Oral (Rat): 20.000 mg/kg

Acute inhalation toxicity : LC50 (Rabbit): 20 mg/l
Exposure time: 4 h

LC50 (Rabbit): 317.042 mg/l
Exposure time: 2 h
Test atmosphere: dust/mist

Acute dermal toxicity : LD50 Dermal (Rabbit): 20.800 mg/kg

Skin corrosion/irritation

Causes severe burns.

Product:

Remarks : According to the classification criteria of the European Union, the product is not considered as being a skin irritant.

Remarks : Extremely corrosive and destructive to tissue.

Components:

potassium hydroxide

1310-58-3:

Result : Corrosive

sodium hydroxide

1310-73-2:

Result : Corrosive

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1,2-benzisothiazol-3(2H)-one

2634-33-5:

Species : Rabbit
Method : OECD Test Guideline 404
Result : Skin irritation

propane-1,2-diol

57-55-6:

Method : OECD Test Guideline 404
Result : No skin irritation

Serious eye damage/eye irritation

Causes serious eye damage.

Product:

Remarks : May cause irreversible eye damage.

Components:

potassium hydroxide

1310-58-3:

Species : Rabbit
Method : OECD Test Guideline 405
Result : Corrosive

sodium hydroxide

1310-73-2:

Result : Corrosive

1,2-benzisothiazol-3(2H)-one

2634-33-5:

Species : Rabbit
Method : OECD Test Guideline 405
Result : Causes serious eye damage.

Species : Bovine cornea
Method : OECD Test Guideline 437
Result : Risk of serious damage to eyes.

propane-1,2-diol

57-55-6:

Method : OECD Test Guideline 405
Result : Mild eye irritation

Respiratory or skin sensitization

Skin sensitization

Not classified due to lack of data.

Respiratory sensitization

Not classified due to lack of data.

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Product:

Remarks : No data available

Components:

potassium hydroxide

1310-58-3:

Species : Guinea pig
Result : Did not cause sensitization on laboratory animals.

1,2-benzisothiazol-3(2H)-one

2634-33-5:

Routes of exposure : Dermal
Species : Guinea pig
Method : OECD Test Guideline 406
Result : May cause sensitization by skin contact.

Routes of exposure : Dermal
Species : Mouse
Method : OECD Test Guideline 429
Result : May cause sensitization by skin contact.

propane-1,2-diol

57-55-6:

Species : Guinea pig
Method : OECD Test Guideline 406
Result : Does not cause skin sensitization.

Germ cell mutagenicity

Not classified due to lack of data.

Germ cell mutagenicity : Not Rated

Components:

potassium hydroxide

1310-58-3:

Genotoxicity in vitro : Test Type: Ames test
Test system: Salmonella typhimurium
Result: negative

propane-1,2-diol

57-55-6:

Genotoxicity in vitro : Test Type: Ames test
Result: negative

Carcinogenicity

Not classified due to lack of data.

Carcinogenicity : Not Rated

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Reproductive toxicity

Not classified due to lack of data.

Reproductive toxicity : Not Rated

STOT-single exposure

Not classified due to lack of data.

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

STOT-repeated exposure

Not classified due to lack of data.

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

Aspiration toxicity

Not classified due to lack of data.

Aspiration toxicity : Not Rated

11.2 Information on other hazards

Endocrine disrupting properties

Product:

Assessment : 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.

Further information

Product:

Remarks : No data available

SECTION 12: Ecological information

12.1 Toxicity

Components:

Alcohols, C12-14. ethoxylated

68439-50-9:

Toxicity to fish : LC50 (Fish): 1,2 mg/l
Exposure time: 96 h

NOEC (Fish): > 0,1 - 1 mg/l
Exposure time: 30 d

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia): 0,53 mg/l

M-Factor (Acute aquatic toxicity) : 1

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68439-50-9:

- Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 0,423 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0,125 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202
- Toxicity to algae/aquatic plants : EC50 (Desmodesmus subspicatus (green algae)): 0,0455 mg/l
Exposure time: 72 h
Test Type: static test
Method: OECD Test Guideline 201
- EC10 (Desmodesmus subspicatus (green algae)): 0,034 mg/l
Exposure time: 72 h
Test Type: static test
Method: OECD Test Guideline 201
- Toxicity to fish (Chronic toxicity) : EC10: 0,251 mg/l
Exposure time: 30 d
Species: Pimephales promelas (fathead minnow)
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : EC10: 0,054 mg/l
Exposure time: 21 d
Species: Daphnia magna (Water flea)

potassium hydroxide

1310-58-3:

- Toxicity to fish : (Pimephales promelas (fathead minnow)): 880 mg/l
Exposure time: 96 h
Test Type: static test
- LC50 (Gambusia affinis (Mosquito fish)): 80 mg/l
Exposure time: 96 h
- LC50 (Poecilia reticulata (guppy)): 165 mg/l
Exposure time: 24 h
- LC50 (Oncorhynchus mykiss (rainbow trout)): 45,4 mg/l
Exposure time: 96 h
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 660 mg/l
Exposure time: 48 h
Test Type: static test
- EC50 (Ceriodaphnia dubia (water flea)): 40,4 mg/l
Exposure time: 48 h
- Toxicity to algae/aquatic plants : EC50 : 1.337 mg/l
Exposure time: 120 h
- Toxicity to microorganisms : EC50 (Photobacterium phosphoreum): 22 mg/l
Exposure time: 15 min
- Toxicity to soil dwelling organisms : LC50: 850 mg/kg
Exposure time: 90 d

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sodium hydroxide

1310-73-2:

Toxicity to fish

: LC50 (Fish): 33 - 189 mg/l
Exposure time: 96 h

LC50 (*Gambusia affinis* (Mosquito fish)): 125 mg/l
Exposure time: 96 h

LC50 (*Poecilia reticulata* (guppy)): 76 mg/l
Exposure time: 24 h

Toxicity to daphnia and other
aquatic invertebrates

: EC50 (Daphnia): 40,4 mg/l

EC50 (*Daphnia magna* (Water flea)): 76 mg/l
Exposure time: 24 h

EC50 (*Ceriodaphnia* (water flea)): 40,4 mg/l
Exposure time: 48 h
Test Type: Immobilization

Toxicity to microorganisms

: EC50 (*Photobacterium phosphoreum*): 22 mg/l
Exposure time: 15 min

1,2-benzisothiazol-3(2H)-one

2634-33-5:

Toxicity to fish

: LC50 (*Oncorhynchus mykiss* (rainbow trout)): 16,0 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203

LC50 (*Oncorhynchus mykiss* (rainbow trout)): 2,18 mg/l
Exposure time: 96 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 203
GLP: yes

LC50 (*Cyprinodon variegatus* (sheepshead minnow)): ca. 16,7 mg/l
Exposure time: 96 h
Test Type: static test
Analytical monitoring: yes
GLP: yes

NOEC (*Oncorhynchus mykiss* (rainbow trout)): 0,21 mg/l
Exposure time: 28 d
Method: OECD Test Guideline 215

NOEC (*Oncorhynchus mykiss* (rainbow trout)): 2,1 mg/l
Exposure time: 28 d
Method: OECD Test Guideline 215

LC50 (*Oncorhynchus mykiss* (rainbow trout)): 1,6 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203

LC50 (*Oncorhynchus mykiss* (rainbow trout)): 2,2 mg/l
Exposure time: 96 h

Toxicity to daphnia and other

: EC50 (Daphnia): 32,6 mg/l

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aquatic invertebrates

Exposure time: 48 h
Method: OECD Test Guideline 202

EC50 (*Daphnia magna* (Water flea)): 2,94 mg/l
Exposure time: 48 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 202
GLP: yes

EC0 (*Daphnia magna* (Water flea)): 0,643 mg/l
Exposure time: 48 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 202
GLP: yes

EC50 (*Mysidopsis bahia* (opossum shrimp)): 0,9893 mg/l
Exposure time: 96 h
Test Type: static test
Analytical monitoring: yes
GLP: yes

NOEC (*Daphnia*): 1,02 mg/l
Exposure time: 21 d
Method: OECD Test Guideline 211

NOEC (*Daphnia*): 12 mg/l
Exposure time: 21 d

EC50 (*Daphnia magna* (Water flea)): 3,27 mg/l
Exposure time: 48 h

Toxicity to algae/aquatic plants

: EC10 (*Pseudokirchneriella subcapitata* (green algae)): 0,04 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

EC50 (*Pseudokirchneriella subcapitata* (green algae)): 1,1 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

EC50 (*Selenastrum capricornutum* (green algae)): 1,1 mg/l
Exposure time: 72 h
Analytical monitoring: yes
Method: OECD Test Guideline 201
GLP: yes

NOEC (*Selenastrum capricornutum* (green algae)): 0,04 mg/l
Exposure time: 72 h
Analytical monitoring: yes
Method: OECD Test Guideline 201
GLP: yes

EC100 (*Pseudokirchneriella subcapitata* (green algae)): 0,067 mg/l
Exposure time: 72 h

NOEC (*Pseudokirchneriella subcapitata* (green algae)): 0,4 mg/l
Exposure time: 72 h

ErC50 (*Pseudokirchneriella subcapitata* (green algae)): 0,11 mg/l
Exposure time: 72 h

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NOEC (Skeletonema costatum (marine diatom)): 0,027 mg/l
Exposure time: 72 h

EC50 (Selenastrum capricornutum (green algae)): 0,11 mg/l
Exposure time: 72 h

NOEC (Selenastrum capricornutum (green algae)): 0,04 mg/l
Exposure time: 72 h

M-Factor (Acute aquatic toxicity) : 1

1

Toxicity to microorganisms : EC20 (activated sludge): 3,3 mg/l
Exposure time: 3 h
Method: OECD Test Guideline 209

EC50 (activated sludge): 13 mg/l
Exposure time: 3 h
Method: OECD Test Guideline 209

Toxicity to fish (Chronic toxicity) : NOEC: 0,21 mg/l
Species: Oncorhynchus mykiss (rainbow trout)
Method: OECD Test Guideline 215

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 1,2 mg/l
Exposure time: 21 d
Species: Daphnia
Method: OECD Test Guideline 211

M-Factor (Chronic aquatic toxicity) : 1

1

propane-1,2-diol

57-55-6:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 40.613 mg/l
Exposure time: 96 h
Test Type: static test
Method: OECD Test Guideline 203

LC50 (Pimephales promelas (fathead minnow)): 54,9 g/l
Exposure time: 96 h

LC50 (Oncorhynchus mykiss (rainbow trout)): 51.600 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 43.500 mg/l
Exposure time: 48 h

EC50 (Mysidopsis bahia (opossum shrimp)): 18.800 mg/l
Exposure time: 48 h

EC50 (Ceriodaphnia dubia (water flea)): 18.340 mg/l
Exposure time: 48 h
Test Type: static test
Method: OECD Test Guideline 202

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- Toxicity to algae/aquatic plants : EC50 (Selenastrum capricornutum (green algae)): 19.000 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 201
- EC50 (Skeletonema costatum (marine diatom)): 19.100 mg/l
Exposure time: 96 h
- ErC50 (Pseudokirchneriella subcapitata (green algae)): 19.000 mg/l
Exposure time: 96 h
Test Type: static test
Method: OECD Test Guideline 201
- Toxicity to microorganisms : EC50 (Photobacterium phosphoreum): 26,8 g/l
Exposure time: 30 min
- NOEC (Pseudomonas putida): > 20.000 mg/l
Exposure time: 18 h
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 13.020 mg/l
Exposure time: 7 d
Species: Ceriodaphnia dubia (water flea)

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

68439-50-9:

- Biodegradability : Result: rapidly biodegradable

68439-50-9:

- Biodegradability : Result: rapidly biodegradable
Biodegradation: 70,4 %
Exposure time: 28 d
Method: OECD 301 F

potassium hydroxide

1310-58-3:

- Biodegradability : Result: Biodegradable
Remarks: The methods for determining the biological degradability are not applicable to inorganic substances.

sodium hydroxide

1310-73-2:

- Biodegradability : Result: Biodegradable
Remarks: The methods for determining the biological degradability are not applicable to inorganic substances.

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1,2-benzisothiazol-3(2H)-one

2634-33-5:

Biodegradability : Test Type: Primary biodegradation
Result: Biodegradable
Biodegradation: > 90 %
Method: see user defined free text

propane-1,2-diol

57-55-6:

Biodegradability : Test Type: aerobic
Result: Readily biodegradable.
Exposure time: 28 d
Method: OECD 301 F
GLP: yes

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

Test Type: anaerobic
Result: rapidly biodegradable
Biodegradation: 81 %
Exposure time: 28 d
Method: OECD 301 F

Biochemical Oxygen Demand (BOD) : 960 - 1.080 mg/g

Chemical Oxygen Demand (COD) : 1.630 mg/g

12.3 Bioaccumulative potential

Components:

potassium hydroxide

1310-58-3:

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

sodium hydroxide

1310-73-2:

Bioaccumulation : Species: Fish
Remarks: No bioaccumulation is to be expected (log Pow <= 4).

1,2-benzisothiazol-3(2H)-one

2634-33-5:

Bioaccumulation : Species: Fish
Bioconcentration factor (BCF): 6,95
Method: OECD Test Guideline 305

Partition coefficient: n-octanol/water : log Pow: 0,7

propane-1,2-diol

57-55-6:

Bioaccumulation : Bioconcentration factor (BCF): 0,09

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Remarks: Bioaccumulation is unlikely.

Partition coefficient: n-
octanol/water

: Pow: 0,0851 (20,5 °C)
log Pow: -1,07 (20,5 °C)
pH: 6,2 - 6,4
Method: OECD Test Guideline 107
GLP: yes

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

68439-50-9:

Assessment : Not persistent, bioaccumulative, and toxic (PBT).. Not very persistent and very bioaccumulative (vPvB).

potassium hydroxide

1310-58-3:

Assessment : Not very persistent and very bioaccumulative (vPvB).. Not persistent, bioaccumulative, and toxic (PBT).

1,2-benzisothiazol-3(2H)-one

2634-33-5:

Assessment : Not very persistent and very bioaccumulative (vPvB).. Not persistent, bioaccumulative, and toxic (PBT).

12.6 Endocrine disrupting properties

Product:

Assessment : 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.

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.

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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 Catalog
20 01 29*
According to the European Waste Catalog, 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.

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.

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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

: Directive 96/82/EC does not apply

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. : Not applicable

TA Luft List (Germany) : Total dust: Not applicable
: Inorganic substances in powdered form: Not applicable
: Inorganic substances in vapor or gaseous form: Not applicable
: Organic Substances: : portionClass 1: 0,7 %
: Carcinogenic substances: Not applicable
: mutagenic: Not applicable
: Toxic to reproduction: Not applicable

Volatile organic compounds (VOC) content : Directive 1999/13/EC
Update: Percent volatile: 2,50 %
25,28 g/l

Volatile organic compounds (VOC) content : Directive 2010/75/EU of 24 November 2010 on industrial and livestock rearing emissions (integrated pollution prevention and control)
Update: Percent volatile: 3,9 %

according to Detergents Regulation EC 648/2004 : 5 - <15% non-ionic surfactants, <5% phosphonates, anionic surfactants, optical brighteners, PHENOXYETHANOL, BENZISOTHIAZOLINONE

15.2 Chemical Safety Assessment

There is no data available for this product.

SECTION 16: Other information

Full text of H-Statements

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.
H330 : Fatal if inhaled.
H400 : Very toxic to aquatic life.

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H410 : Very toxic to aquatic life with long lasting effects.
H412 : Harmful to aquatic life with long lasting effects.

Full text of other abbreviations

Acute Tox. : Acute toxicity
Aquatic Acute : Short-term (acute) aquatic hazard
Aquatic Chronic : Long-term (chronic) aquatic hazard
Eye Dam. : Serious eye damage
Eye Irrit. : Eye irritation
Met. Corr. : Corrosive to Metals
Skin Corr. : Skin corrosion
Skin Irrit. : Skin irritation
Skin Sens. : Skin sensitization

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 Standardization; 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 Organization 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 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, Authorization 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 Corr. 1B H314
Eye Dam. 1 H318

Classification procedure:

Calculation method
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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