

SAFETY DATA SHEET

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



MANUDISH EVOKLIKS

WM 0715425

Order number: 0715425

Version 3.1

Revision Date 15.07.2026

Print Date 16.07.2026

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

1.1 Product identifier

Trade name : MANUDISH EVOKLIKS
UFI : GUR2-F0WG-400T-JS4A

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 irritation, Category 2 H315: Causes skin irritation.

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 : H315 Causes skin irritation.
H318 Causes serious eye damage.

Precautionary Statements : P102 Keep out of reach of children.
Prevention:
P264 Wash skin thoroughly after handling.
P280 Wear protective gloves/ eye protection/ face protection.

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Response:

P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.

P332 + P313 If skin irritation occurs: Get medical advice/ attention.

Disposal:

P501 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,
sulfates, sodium salts
1-Propanaminium, 3-amino-N-
(carboxymethyl)-N,N-dimethyl-
, N-(C8-18 and C18-unsatd.
acyl) derivs., hydroxides, inner
salts
D-Glucopyranose, oligomeric,
C10-16-alkyl glycosides
Octan-1-ol, ethoxylated

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.

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

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Alcohols, C12-14, ethoxylated, sulfates, sodium salts	68891-38-3 500-234-8 01-2119488639-16	Skin Irrit. 2; H315 Eye Dam. 1; H318 Aquatic Chronic 3; H412 specific concentration limit	>= 15 - < 20

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		Eye Irrit. 2; H319 5 - < 10 % Eye Dam. 1; H318 ≥ 10,0 %	
1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18 and C18-unsatd. acyl) derivs., hydroxides, inner salts	147170-44-3 931-333-8 01-2119489410-39	Eye Dam. 1; H318 Aquatic Chronic 3; H412 specific concentration limit Eye Irrit. 2; H319 > 4 - 10 % Eye Dam. 1; H318 > 10 %	≥ 5 - < 10
ethanol	64-17-5 200-578-6 603-002-00-5 01-2119457610-43	Flam. Liq. 2; H225 Eye Irrit. 2; H319 specific concentration limit Eye Irrit. 2; H319 ≥ 50 %	≥ 5 - < 10
Decan-1-ol.ethoxylated	26183-52-8 500-046-6	Eye Irrit. 2; H319 Acute Tox. 4; H302	≥ 3 - < 5
D-Glucopyranose, oligomeric, C10-16-alkyl glycosides	110615-47-9 600-975-8 01-2119489418-23	Skin Irrit. 2; H315 Eye Dam. 1; H318 specific concentration limit Eye Dam. 1; H318 > 12 - 30 % Eye Irrit. 2; H319 1 - 12 % H315, H318 > 30 %	≥ 1 - < 3
Octan-1-ol, ethoxylated	27252-75-1 500-058-1	Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Dam. 1; H318	≥ 1 - < 3
Amide polyglycol ether	85536-23-8 932-164-2 01-2119565130-50	Skin Irrit. 2; H315 Aquatic Chronic 3; H412	≥ 1 - < 2,5
sodium benzoate	532-32-1 208-534-8 01-2119460683-35	Eye Irrit. 2; H319	≥ 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.

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- 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 | : | 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 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 | : | corrosive effects
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 fire fighting | : | 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

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|----------------------|---|--|
| Personal precautions | : | Use personal protective equipment.
Ensure adequate ventilation. |
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6.2 Environmental precautions

Environmental precautions : Try to prevent the material from entering drains or water courses.

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.

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 : Vapors may form explosive mixtures with air. Use explosion-proof equipment.

Vapors may form explosive mixtures with air.

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:

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Substance name	End Use	Routes of exposure	Potential health effects	Value
Alcohols, C12-14, ethoxylated, sulfates, sodium salts	Workers	Inhalation	Long-term systemic effects	175 mg/m3
	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
	Workers	Skin contact	Long-term systemic effects	5830 mg/kg bw/day
1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18 and C18-unsatd. acyl) derivs., hydroxides, inner salts	Consumers	Skin contact		2500 mg/kg bw/day
	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
	Consumers	Dermal	Long-term systemic effects	7,5 mg/kg
ethanol	Workers	Inhalation	Acute local effects	1900 mg/m3
	Workers	Inhalation	Long-term systemic effects	950 mg/m3
	Workers	Skin contact	Long-term systemic effects	343 mg/kg
	Consumers	Inhalation	Acute local effects	950 mg/m3
	Consumers	Skin contact	Long-term systemic effects	206 mg/kg
	Consumers	Inhalation	Long-term systemic effects	114 mg/m3

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	Consumers	Ingestion	Long-term systemic effects	87 mg/kg
	Consumers	Skin contact	Acute local effects	950 mg/m3
D-Glucopyranose, oligomeric, C10-16-alkyl glycosides	Workers	Skin contact	Long-term systemic effects	595000 mg/kg
	Workers	Inhalation	Long-term systemic effects	420 mg/m3
	Consumers	Skin contact	Long-term systemic effects	357000 mg/kg
	Consumers	Inhalation	Long-term systemic effects	124 mg/m3
	Consumers	Ingestion	Long-term systemic effects	35,7 mg/kg
Amide polyglycol ether, Reaction mass of Amides, rape-oil, N-(hydroxyethyl), ethoxylated and Glycerol,ethoxylated	Workers	Skin contact	Acute systemic effects	40 mg/kg
	Consumers	Skin contact	Acute systemic effects	20 mg/kg
	Consumers	Ingestion	Acute systemic effects	20 mg/kg
	Consumers	Skin contact	Long-term systemic effects	0,25 mg/kg
	Consumers	Ingestion	Long-term systemic effects	0,25 mg/kg
	Workers	Inhalation	Long-term systemic effects	7,05 mg/m3
	Workers	Skin contact	Long-term systemic effects	2 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	1,74 mg/m3
	Consumers	Skin contact	Long-term systemic effects	1 mg/kg bw/day
	Consumers	Oral	Long-term systemic effects	1 mg/kg bw/day
sodium chloride	Workers	Skin contact	Acute systemic effects	295,52 mg/kg

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				bw/day
	Workers	Inhalation	Acute systemic effects	2068,62 mg/m3
	Workers	Skin contact	Long-term systemic effects	295,52 mg/kg bw/day
	Workers	Inhalation	Long-term systemic effects	2068,62 mg/m3
	Consumer use	Skin contact	Acute systemic effects	126,65 mg/kg
	Consumer use	Inhalation	Acute systemic effects	443,28 mg/m3
	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/m3
	Consumer use	Skin contact	Long-term systemic effects	126,65 mg/kg bw/day
sodium benzoate	Workers	Skin contact	Long-term local effects	4,5 mg/cm2
	Workers	Inhalation	Long-term local effects	6,3 mg/m3
	Consumers	Ingestion	Long-term systemic effects	25 mg/kg
	Consumers	Skin contact	Long-term systemic effects	20,8 mg/kg
	Consumers	Skin contact	Long-term local effects	2,7 mg/cm2
	Workers	Inhalation	Long-term systemic effects	3 mg/m3
	Workers	Inhalation	Long-term local effects	0,1 mg/m3
	Workers	Skin contact	Long-term systemic effects	62,5 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	1,5 mg/m3
	Consumers	Inhalation	Long-term local effects	0,06 mg/m3
	Consumers	Skin contact	Long-term systemic effects	31,25 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic	16,6 mg/kg

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

Substance name	Environmental Compartment	Value
Alcohols, C12-14, ethoxylated, sulfates, sodium salts	Fresh water	0,129 mg/l
	Sea water	0,024 mg/l
	Fresh water sediment	4,835 mg/kg dry weight (d.w.)
	Sea sediment	0,4835 mg/kg dry weight (d.w.)
	Soil	7,5 mg/kg dry weight (d.w.)
	STP	10000 mg/l
	intermittent release	0,071 mg/l
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
	Sea water	0,00135 mg/l
	Fresh water sediment	1 mg/kg
	Sea sediment	0,1 mg/kg
	STP	3000 mg/l
	Soil	0,8 mg/kg
ethanol	Fresh water	0,96 mg/l
	Sea water	0,79 mg/l
	Fresh water sediment	3,6 mg/kg
	Soil	0,63 mg/kg
	STP	580 mg/l
	intermittent release	2,75 mg/l
D-Glucopyranose, oligomeric, C10-16-alkyl glycosides	Fresh water	0,176 mg/l
	Sea water	0,018 mg/l

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	Fresh water sediment	1,516 mg/kg
	Sea sediment	0,065 mg/kg
	Soil	0,654 mg/kg
	STP	5000 mg/l
	intermittent release	0,0295 mg/l
Amide polyglycol ether, Reaction mass of Amides, rape-oil, N-(hydroxyethyl), ethoxylated and Glycerol,ethoxylated	Fresh water	0,0022 mg/l
	Sea water	0,00022 mg/l
	STP	10 mg/l
	Fresh water sediment	7,395 mg/kg
	Sea sediment	0,741 mg/kg
	Soil	1,47 mg/kg dry weight (d.w.)
sodium chloride	Fresh water	5 mg/l
	Soil	4,86 mg/kg dry weight (d.w.)
	STP	500 mg/l
sodium benzoate	Intermittent use/release	0,305 mg/l
	Sewage treatment plant	10 mg/l
	Fresh water	0,581 mg/l
	Sea water	0,058 mg/l
	STP	10 mg/l
	Fresh water sediment	2,5 mg/l
	Sea sediment	0,25 mg/l
	Soil	0,159 mg/l

8.2 Exposure controls

Personal protective equipment

Eye/face protection : If splashes are likely to occur, wear:

Tightly fitting safety goggles

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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 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

Color : light yellow

Odor : neutral

Melting point/freezing point : No data available

Boiling point/boiling range : No data available

Flammability (solid, gas) : No data available

Flammability (liquids) : Not classified as supporting combustion according to the transport regulations.

Lower explosion limit : No data available

Upper explosion limit : No data available

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Flash point	: 48 °C Method: ISO 2719
Ignition temperature	: No data available
Decomposition temperature	: No data available
pH	: ca. 5,5, 100 % at 20 °C
Viscosity, dynamic	: ca. 704 mPa.s at 20 °C
Viscosity, kinematic	: No data available
Water solubility	: completely miscible
Solubility in other solvents	: No data available
Partition coefficient: n-octanol/water	: No data available
Vapor pressure	: No data available
Density	: ca. 1,044 g/cm ³ at 20 °C
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.

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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

Product:

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

Components:

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

68891-38-3:

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

Acute dermal toxicity : LD50 Dermal (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

ethanol

64-17-5:

Acute oral toxicity : LD50 Oral (Rat): 10.470 mg/kg
Method: OECD Test Guideline 401

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

Acute inhalation toxicity : LC50 (Rat): 51 mg/l
Exposure time: 4 h

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

LD50 Dermal (Rabbit): > 10.000 mg/kg

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Method: OECD Test Guideline 402

D-Glucopyranose, oligomeric, C10-16-alkyl glycosides

110615-47-9:

Acute oral toxicity : LD50 Oral: > 5.000 mg/kg
Acute dermal toxicity : LD50 Dermal (Rat): > 5.000 mg/kg
Method: OECD Test Guideline 402

Octan-1-ol, ethoxylated

27252-75-1:

Acute oral toxicity : LD50 (Rat): > 300 - 2.000 mg/kg
Method: OECD Test Guideline 401
Acute dermal toxicity : LD50 Dermal (Rat): > 5.000 mg/kg
Method: OECD Test Guideline 402

Amide polyglycol ether

85536-23-8:

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

sodium benzoate

532-32-1:

Acute oral toxicity : LD50 Oral (Rat): 3.140 mg/kg
Acute inhalation toxicity : LC50 (Rat): 12,2 mg/l
Acute dermal toxicity : LD50 Dermal (Rabbit): > 2.000 mg/kg

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.
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

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ethanol

64-17-5:

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

Decan-1-ol,ethoxylated

26183-52-8:

Result : No skin irritation

Octan-1-ol, ethoxylated

27252-75-1:

Species : Rabbit
Method : OECD Test Guideline 404
Result : irritating

Amide polyglycol ether

85536-23-8:

Species : Rabbit
Result : Skin irritation

sodium benzoate

532-32-1:

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

Serious eye damage/eye irritation

Product:

Remarks : May cause irreversible eye damage.

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.

ethanol

64-17-5:

Species : Rabbit
Method : OECD Test Guideline 405
Result : Mild eye irritation

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Decan-1-ol.ethoxylated

26183-52-8:

Result : Eye irritation

Octan-1-ol, ethoxylated

27252-75-1:

Species : Rabbit
Method : OECD Test Guideline 405
Result : Irreversible effects on the eye

Amide polyglycol ether

85536-23-8:

Species : Rabbit
Result : No eye irritation

sodium benzoate

532-32-1:

Species : Rabbit
Method : OECD Test Guideline 405
Result : Eye irritation

Respiratory or skin sensitization

Product:

Remarks : No data available

Components:

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

68891-38-3:

Routes of exposure : Dermal
Species : Guinea pig
Result : Does not cause skin sensitization.

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

147170-44-3:

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

ethanol

64-17-5:

Result : Not a skin sensitizer.

Amide polyglycol ether

85536-23-8:

Species : Guinea pig

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Result : Does not cause skin sensitization.

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

Amide polyglycol ether

85536-23-8:

Genotoxicity in vitro : Test Type: Ames test
Method: OECD Test Guideline 471
Result: negative

Test Type: Chromosome aberration test in vitro
Method: OECD Test Guideline 473
Result: negative

Test Type: Micronucleus test
Method: Mutagenicity (micronucleus test)
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:

ethanol

64-17-5:

Species : Rat, male
NOAEL : > 20 mg/kg
Method : OECD Test Guideline 403

Species : Rat, female
NOAEL : 1.730 mg/kg
Method : OECD Test Guideline 408

Amide polyglycol ether

85536-23-8:

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Species : Rat
NOAEL : 150 mg/kg
Application Route : Oral
Remarks : Subacute toxicity

Species : Rat
NOAEL : 200 mg/kg
Application Route : Oral

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, sulfates, 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: flow-through 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
Exposure time: 96 h
Test Type: flow-through test
Method: OECD Test Guideline 203

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	LC50 (Brachydanio rerio (zebrafish)): 7,1 mg/l Exposure time: 96 h
	NOEC (Fish): 0,1 - 1 mg/l Exposure time: 28 Days
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 EC50 (Daphnia): 1 - 10 mg/l Exposure time: 48 h NOEC (Daphnia): 0,1 - 1 mg/l Exposure time: 21 Days
Toxicity to algae/aquatic plants	: EC50 (Desmodesmus subspicatus (green algae)): 27,7 mg/l Exposure time: 72 h Test Type: Growth inhibition Method: OECD Test Guideline 201 GLP: yes 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 EC50 (algae): 27,7 mg/l Exposure time: 72 h Test Type: Growth inhibition NOEC (algae): 0,93 mg/l Exposure time: 72 h EC50 (algae): 10 - 100 mg/l Exposure time: 72 h NOEC (algae): 0,1 - 1 mg/l Exposure time: 72 h
Toxicity to microorganisms	: EC50 (Pseudomonas putida): > 10 g/l

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Exposure time: 16 h
Test Type: Cell multiplication inhibition test
Method: DIN 38412
GLP: yes

EC10 (*Pseudomonas putida*): > 10 g/l
Exposure time: 16 h
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

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: 56 d
Species: *Eisenia fetida* (earthworms)
Method: OECD Test Guideline 222
Remarks: Information taken from reference works and the literature.

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

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- 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

ethanol

64-17-5:

- Toxicity to fish : LC50 (*Oncorhynchus mykiss* (rainbow trout)): 13 g/l
Exposure time: 96 h
Method: OECD Test Guideline 203

LC50 (*Leuciscus idus* (Golden orfe)): 8.150 mg/l
Exposure time: 48 h

LC50 (*Pimephales promelas* (fathead minnow)): > 0,1 g/l
Exposure time: 96 h

LC50 (Fish): 11.200 mg/l
- Toxicity to daphnia and other aquatic invertebrates : EC50 (*Daphnia magna* (Water flea)): 12.340 mg/l
Exposure time: 48 h

EC50 : 5.012 mg/l
- Toxicity to algae/aquatic plants : EC50 (*Chlorella vulgaris* (Fresh water algae)): 275 mg/l
Exposure time: 72 h
Test Type: Growth inhibition
Method: OECD Test Guideline 201

EC50 (*Scenedesmus capricornutum* (fresh water algae)): 12.900 mg/l
Exposure time: 48 h
Test Type: Growth inhibition
Method: No information available.

EC0 (*Scenedesmus quadricauda* (Green algae)): 5.000 mg/l
Exposure time: 168 h

EC50 : 4.432 mg/l

EC10 : 11,5 mg/l

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EC10 : 280 mg/l

Toxicity to microorganisms : EC50 (*Pseudomonas putida*): 11.800 mg/l
Exposure time: 16 h
Test Type: Cell multiplication inhibition test

Decan-1-ol.ethoxylated

26183-52-8:

Toxicity to daphnia and other aquatic invertebrates : EC50 (*Daphnia*): 15 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : EC50 : 19,6 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

D-Glucopyranose, oligomeric, C10-16-alkyl glycosides

110615-47-9:

Toxicity to fish : LC50 (Fish): > 1 - 10 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203

LC50 (*Brachydanio rerio* (zebrafish)): 2,95 mg/l
Exposure time: 96 h
Test Type: semi-static test
Method: OECD Test Guideline 203

LC50 (*Danio rerio* (zebra fish)): 5,9 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (*Daphnia*): > 10 - 100 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202

EC50 (*Daphnia magna* (Water flea)): 7 mg/l
Exposure time: 48 h

Toxicity to algae/aquatic plants : EC50 : > 10 - 100 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

EC50 (*Desmodesmus subspicatus* (green algae)): 12,5 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

Toxicity to microorganisms : EC0 (*Pseudomonas putida*): > 100 mg/l
Exposure time: 16 h
Method: DIN 38412

Toxicity to fish (Chronic toxicity) : NOEC: > 1 mg/l
Exposure time: 28 d
Species: *Brachydanio rerio*
Method: OECD Test Guideline 204

NOEC: 1,8 mg/l
Exposure time: 28 d
Species: *Brachydanio rerio*
Method: OECD Test Guideline 204

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Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: > 1 mg/l
Exposure time: 21 d
Species: Daphnia magna (Water flea)
Method: see user defined free text

EC10: 1,76 mg/l
Exposure time: 21 d
Species: Daphnia magna (Water flea)
Method: OECD Test Guideline 202

Octan-1-ol, ethoxylated, Octan-1-ol, ethoxylated (4 EO)

27252-75-1:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): 10 - 100 mg/l
Exposure time: 96 h
Test Type: semi-static test
Method: ISO 7346/2

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 100 mg/l
Exposure time: 24 h
Method: DIN 38412

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

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

Toxicity to fish (Chronic toxicity) : NOEC: > 1 mg/l

Amide polyglycol ether, Reaction mass of Amides, rape-oil, N-(hydroxyethyl), ethoxylated and Glycerol,ethoxylated

85536-23-8:

Toxicity to fish : LC50 (Fish): 2,9 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia): 3,8 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : EC50 : 410 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201
Remarks: Fresh water

NOEC : 4,9 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0,4 mg/l
Exposure time: 21 d
Species: Daphnia magna (Water flea)
Test Type: Reproduction Test
Method: OECD Test Guideline 211

sodium benzoate

532-32-1:

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Toxicity to fish	: LC50 (Pimephales promelas (fathead minnow)): 484 mg/l Exposure time: 96 h LC50 (Fish): 1.500 mg/l Exposure time: 24 h NOEC (Pimephales promelas (fathead minnow)): 392,5 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
Toxicity to algae/aquatic plants	: (Chlorella vulgaris (Fresh water algae)): > 100 mg/l Exposure time: 72 h Method: OECD Test Guideline 201 ErC50 (Pseudokirchneriella subcapitata (microalgae)): 30,5 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	: NOEC: 5,81 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea) LOEC: > 5,81 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea)

12.2 Persistence and degradability

Components:

Alcohols, C12-14, ethoxylated, sulfates, 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 Method: OECD 301 D Result: Readily biodegradable. Biodegradation: 93 % Exposure time: 28 d
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Biochemical Oxygen Demand (BOD)	: 285 mg/g Incubation time: 5 d
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Chemical Oxygen Demand (COD)	: 518 mg/g
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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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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

ethanol

64-17-5:

Biodegradability : Result: Readily biodegradable.
Biodegradation: 97 %
Method: OECD Test Guideline 301

D-Glucopyranose, oligomeric, C10-16-alkyl glycosides

110615-47-9:

Biodegradability : Result: rapidly biodegradable
Method: OECD Test Guideline 301

Biodegradation: > 99,4 %
Exposure time: 28 d

Octan-1-ol, ethoxylated, Octan-1-ol, ethoxylated (4 EO)

27252-75-1:

Biodegradability : Result: rapidly biodegradable

Amide polyglycol ether, Reaction mass of Amides, rape-oil, N-(hydroxyethyl), ethoxylated and Glycerol,ethoxylated

85536-23-8:

Biodegradability : Result: rapidly biodegradable

sodium benzoate

532-32-1:

Biodegradability : Result: Readily biodegradable.
Biodegradation: 90 %
Exposure time: 7 d
Method: OECD 301 B

12.3 Bioaccumulative potential

Components:

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

68891-38-3:

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

ethanol

64-17-5:

Bioaccumulation : Concentration: 3,2 mg/l

Partition coefficient: n-octanol/water : log Pow: -0,32

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D-Glucopyranose, oligomeric, C10-16-alkyl glycosides

110615-47-9:

Partition coefficient: n-octanol/water : log Pow: < -0,07 (20 °C)

Amide polyglycol ether, Reaction mass of Amides, rape-oil, N-(hydroxyethyl), ethoxylated and Glycerol,ethoxylated

85536-23-8:

Partition coefficient: n-octanol/water : log Pow: 5

sodium benzoate

532-32-1:

Partition coefficient: n-octanol/water : log Pow: -2,27

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

68891-38-3:

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.

Components:

27252-75-1:

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.

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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 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
RID
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
RID
Not dangerous goods
IMDG
Not dangerous goods
IATA
Not dangerous goods

14.4 Packing group

ADR
Not dangerous goods
RID
Not dangerous goods
IMDG
Not dangerous goods
IATA
Not dangerous goods

14.5 Environmental hazards

ADR
Not dangerous goods
RID
Not dangerous goods

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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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) : 75-21-8

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: : portionClass 3: 1,46 %
: Organic Substances: : portionClass 1: 1,32 %
: Carcinogenic substances: : portionClass 2: < 0,01 %
: mutagenic: : < 0,01 %
: Toxic to reproduction: Not applicable

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: 6,06 %

according to Detergents Regulation EC 648/2004 : 15 - <30% anionic surfactants, 5 - <15% amphoteric surfactants, non-ionic surfactants, LACTIC ACID

15.2 Chemical Safety Assessment

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SECTION 16: Other information

Full text of H-Statements

H225	: Highly flammable liquid and vapor.
H302	: Harmful if swallowed.
H315	: Causes skin irritation.
H318	: Causes serious eye damage.
H319	: Causes serious eye irritation.
H412	: Harmful to aquatic life with long lasting effects.

Full text of other abbreviations

Acute Tox.	: Acute toxicity
Aquatic Chronic	: Long-term (chronic) aquatic hazard
Eye Dam.	: Serious eye damage
Eye Irrit.	: Eye irritation
Flam. Liq.	: Flammable liquids
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 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 Irrit. 2	H315
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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Werner & Mertz
Professional

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