

SAFETY DATA SHEET

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



TANET SR 13C 4X2 L EAST/WEST

WM 1112706

Order number: 0712706

Version 12.1

Revision Date 10.07.2026

Print Date 14.07.2026

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

1.1 Product identifier

Trade name : TANET SR 13C 4X2 L EAST/WEST
UFI : WJX9-D0C7-N00J-F9QP

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)

Flammable liquids, Category 3	H226: Flammable liquid and vapor.
Eye irritation, Category 2	H319: Causes serious eye irritation.
Skin irritation, Category 2	H315: Causes skin irritation.
Long-term (chronic) aquatic hazard, Category 3	H412: Harmful to aquatic life with long lasting effects.

2.2 Label elements

Labeling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal Word : Warning

Hazard Statements : H226 Flammable liquid and vapor.

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Precautionary Statements	H315	Causes skin irritation.
	H319	Causes serious eye irritation.
	H412	Harmful to aquatic life with long lasting effects.
	P102	Keep out of reach of children.
	Prevention: P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
	P280	Wear protective gloves/ eye protection/ face protection.
	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.
	P337 + P313	If eye irritation persists: Get medical advice/ attention.
	Disposal: P501	Dispose of container into the collection of recyclables only when it is completely empty.

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

Chemical nature : Aqueous surfactant solution.

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
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 %	≥ 25 - < 30

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Sulfonic acids, C14-17-sec-alkane, sodium salts	97489-15-1 307-055-2 01-2119489924-20	Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Dam. 1; H318 Aquatic Chronic 3; H412 specific concentration limit Acute Tox. 4; H302 > 60 % Eye Dam. 1; H318 > 15 % Eye Irrit. 2; H319 10 - 15 % Skin Irrit. 2; H315 > 10 %	>= 5 - < 10
Amides, C12-18 and C18-unsatd., N,N-bis(hydroxyethyl)	90622-74-5 292-477-9 01-2119489409-22	Eye Dam. 1; H318 Skin Irrit. 2; H315 Aquatic Chronic 2; H411	>= 5 - < 10
Alcohols, C9 – C11 –iso-, C10 –rich, ethoxylated	78330-20-8 02-2119549526-31	Eye Dam. 1; H318 Acute Tox. 4; H302 specific concentration limit Eye Irrit. 2; H319 1 - 10 % Eye Dam. 1; H318 > 10 %	>= 1 - < 3
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 Eye Irrit. 2; H319 5 - < 10 % Eye Dam. 1; H318 >= 10,0 %	>= 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.
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.

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- 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 induce vomiting.
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 : Alcohol-resistant foam

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
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 : Use water spray to cool unopened containers.
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.

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Ensure adequate ventilation.
Remove all sources of ignition.
Evacuate personnel to safe areas.
Beware of vapors accumulating to form explosive concentrations.
Vapors can accumulate in low areas.

6.2 Environmental precautions

Environmental precautions : Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Neutralize with acid.
Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

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.
Take precautionary measures against static discharges.
Container may be opened only under exhaust ventilation hood.
Open drum carefully as content may be under pressure.
Dispose of rinse water in accordance with local and national regulations.

Advice on protection against fire and explosion : Use explosion-proof equipment. Avoid formation of aerosol. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.

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. Store in cool place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Electrical installations / working materials must comply with the technological safety standards. 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	Routes of exposure	Potential health effects	Value
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
	Consumers	Ingestion	Long-term systemic effects	87 mg/kg
	Consumers	Skin contact	Acute local effects	950 mg/m3
Sulfonic acids, C14-17-sec-alkane, sodium salts	Workers	Skin contact	Acute local effects	2,8 mg/cm2
	Workers	Skin contact	Long-term systemic effects	5 mg/kg
	Workers	Inhalation	Long-term systemic effects	35 mg/m3
	Workers	Skin contact	Long-term local effects	2,8 mg/cm2
	Consumers	Skin contact	Acute local effects	2,8 mg/cm2
	Consumers	Skin contact	Long-term systemic effects	3,57 mg/kg
	Consumers	Inhalation	Long-term systemic effects	12,4 mg/m3
	Consumers	Ingestion	Long-term systemic	7,1 mg/kg

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			effects	
	Consumers	Skin contact	Long-term local effects	2,8 mg/cm2
Amides, C12-18 and C18-unsatd., N,N-bis(hydroxyethyl)	Workers	Skin contact	Long-term systemic effects	4,16 mg/kg
	Workers	Inhalation	Long-term systemic effects	73,4 mg/m3
	Workers	Skin contact	Long-term local effects	0,09 mg/cm2
	Consumers	Skin contact	Long-term systemic effects	2,5 mg/kg
	Consumers	Inhalation	Long-term systemic effects	21,73 mg/m3
	Consumers	Ingestion	Long-term systemic effects	6,25 mg/kg
	Consumers	Skin contact	Long-term local effects	0,056 mg/cm2
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
	Consumers	Skin contact		2500 mg/kg bw/day

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

Substance name	Environmental Compartment	Value
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

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	STP	580 mg/l
	intermittent release	2,75 mg/l
Sulfonic acids, C14-17-sec-alkane, sodium salts	Fresh water	0,04 mg/l
	Sea water	0,004 mg/l
	Fresh water sediment	9,4 mg/kg
	Sea sediment	0,94 mg/kg
	Soil	9,4 mg/kg
	STP	600 mg/l
	intermittent release	0,06 mg/l
	Oral	53,3 mg/kg
Amides, C12-18 and C18-unsatd., N,N-bis(hydroxyethyl)	Fresh water	0,007 mg/l
	Sea water	0,0007 mg/l
	Fresh water sediment	0,161 mg/kg
	Soil	0,28 mg/kg
	STP	830 mg/l
	intermittent release	0,024 mg/l
	Sea sediment	0,0161 mg/kg
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

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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 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 : orange

Odor : characteristic

Melting point/freezing point : No data available

Boiling point/boiling range : No data available

Flammability (solid, gas) : No data available

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Flammability (liquids)	: Not classified as supporting combustion according to the transport regulations.
Lower explosion limit	: No data available
Upper explosion limit	: No data available
Flash point	: 28,6 °C
Ignition temperature	: No data available
Decomposition temperature	: No data available
pH	: ca. 10,1, 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. 0,967 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.
Vapors may form explosive mixture with air.

10.4 Conditions to avoid

Conditions to avoid : Heat, flames and sparks.

10.5 Incompatible materials

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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

Product:

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

Components:

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
Method: OECD Test Guideline 402

Sulfonic acids, C14-17-sec-alkane, sodium salts

97489-15-1:

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

Acute dermal toxicity : LD50 Dermal (Mouse): > 2.000 mg/kg

Amides, C12-18 and C18-unsatd., N,N-bis(hydroxyethyl)

90622-74-5:

Acute oral toxicity : LD50 Oral (Rat): > 5.000 mg/kg

Acute dermal toxicity : LD50 Dermal (Rabbit): > 2.000 mg/kg

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Alcohols, C9 – C11 –iso-, C10 –rich, ethoxylated

78330-20-8:

Acute oral toxicity : LD50 Oral (Rat): 500 - 2.000 mg/kg
LD50 Oral (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

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

Skin corrosion/irritation

Product:

Remarks : May cause skin irritation and/or dermatitis.

Components:

ethanol

64-17-5:

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

Amides, C12-18 and C18-unsatd., N,N-bis(hydroxyethyl)

90622-74-5:

Result : Skin irritation

Alcohols, C9 – C11 –iso-, C10 –rich, ethoxylated

78330-20-8:

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

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

68891-38-3:

Species : Rabbit
Assessment : Irritating to skin.
Method : OECD Test Guideline 404

Serious eye damage/eye irritation

Product:

Remarks : May cause irreversible eye damage.

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Causes serious eye irritation.

Components:

ethanol

64-17-5:

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

Amides, C12-18 and C18-unsatd., N,N-bis(hydroxyethyl)

90622-74-5:

Species	:	Rabbit
Result	:	Irreversible effects on the eye

Alcohols, C9 – C11 –iso-, C10 –rich, ethoxylated

78330-20-8:

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

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

68891-38-3:

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

Respiratory or skin sensitization

Product:

Remarks	:	No data available
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Components:

ethanol

64-17-5:

Result	:	Not a skin sensitizer.
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Amides, C12-18 and C18-unsatd., N,N-bis(hydroxyethyl)

90622-74-5:

Result	:	Not a skin sensitizer.
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Alcohols, C9 – C11 –iso-, C10 –rich, ethoxylated

78330-20-8:

Test Type	:	Maximization Test
Species	:	Guinea pig
Method	:	OECD Test Guideline 406
Result	:	Did not cause sensitization on laboratory animals.

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

68891-38-3:

Routes of exposure : Dermal
Species : Guinea pig
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

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

Sulfonic acids, C14-17-sec-alkane, sodium salts

97489-15-1:

Species : Rat, male and female
NOAEL : 200 mg/kg
Application Route : Oral

Species : Mouse
NOAEL : 500 mg/kg
Application Route : Dermal

Aspiration toxicity : Not Rated

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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 : Solvents may degrease the skin.

SECTION 12: Ecological information

12.1 Toxicity

Components:

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

Sulfonic acids, C14-17-sec-alkane, sodium salts

97489-15-1:

Toxicity to fish : LC50 (*Danio rerio* (zebra fish)): 1 - 10 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (*Daphnia magna* (Water flea)): 9,81 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202
GLP: yes

Toxicity to algae/aquatic plants : EC50 (*Scenedesmus subspicatus*): > 61 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201
GLP: yes

Toxicity to microorganisms : see user defined free text (*Pseudomonas putida*): 600 mg/l
Exposure time: 16 h
Method: DIN 38412

Toxicity to fish (Chronic toxicity) : NOEC:
Exposure time: 28 d
Species: *Oncorhynchus mykiss* (rainbow trout)
Analytical monitoring: yes
Method: OECD Test Guideline 204
GLP: yes

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0,36 mg/l
Exposure time: 22 d
Species: *Daphnia magna* (Water flea)
Method: OECD Test Guideline 202
GLP: yes

Toxicity to soil dwelling organisms : NOEC: 470 mg/kg
Exposure time: 56 d
Species: *Eisenia fetida* (earthworms)
Method: OECD Test Guideline 222
GLP: yes

Amides, C12-18 and C18-unsatd., N,N-bis(hydroxyethyl)

90622-74-5:

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

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
Exposure time: 28 d
Species: *Oncorhynchus mykiss* (rainbow trout)

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: > 0,01 - 0,1 mg/l
Exposure time: 21 d

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toxicity)

Species: Daphnia magna (Water flea)

Alcohols, C9 – C11 –iso-, C10 –rich, ethoxylated, Alcohols, C9-11-iso-, C10-rich, ethoxylated

78330-20-8:

Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): 10 - 100 mg/l
Exposure time: 96 h
Method: DIN 38412

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 10 - 100 mg/l
Exposure time: 48 h
Method: DIN 38412

NOEC (Daphnia magna (Water flea)): 12,5 mg/l
Exposure time: 21 d
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): 10 - 100 mg/l
Method: see user defined free text

EC50 (Scenedesmus subspicatus): > 10 - 100 mg/l
Exposure time: 96 h
Method: see user defined free text

EC10 (algae): > 1 mg/l
Exposure time: 96 h
Method: see user defined free text

Toxicity to microorganisms : EC10 (activated sludge): 48 mg/l
Exposure time: 17 h
Method: DIN 38412

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

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

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Toxicity to microorganisms	:	EC50 (<i>Pseudomonas putida</i>): > 10 g/l Exposure time: 16 h Test Type: Cell multiplication inhibition test Method: DIN 38412 GLP: yes EC10 (<i>Pseudomonas putida</i>): > 10 g/l Exposure time: 16 h Test Type: Cell multiplication inhibition test
Toxicity to fish (Chronic toxicity)	:	NOEC: 1 - 10 mg/l Species: <i>Leuciscus idus</i> (Golden orfe) NOEC: 0,14 mg/l Exposure time: 28 d Species: <i>Oncorhynchus mykiss</i> (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: <i>Oncorhynchus mykiss</i> (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: <i>Daphnia magna</i> (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: <i>Eisenia fetida</i> (earthworms) Method: OECD Test Guideline 222 Remarks: Information taken from reference works and the literature.

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.
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Components:

ethanol

64-17-5:

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

Sulfonic acids, C14-17-sec-alkane, sodium salts

97489-15-1:

Biodegradability : Test Type: aerobic
Inoculum: activated sludge
Result: Readily biodegradable.
Biodegradation: 78 %
Exposure time: 28 d
Method: OECD 301 B
Remarks: Readily biodegradable, according to appropriate OECD test.

Inoculum: activated sludge
Result: rapidly biodegradable
Biodegradation: 89 %
Exposure time: 28 d
Method: OECD 301 E
Remarks: Readily biodegradable, according to appropriate OECD test.

Test Type: aerobic
Inoculum: activated sludge
Result: Readily biodegradable.
Biodegradation: 96,2 %
Exposure time: 34 d
Method: OECD Test Guideline 303A
Remarks: Readily biodegradable, according to appropriate OECD test.

Chemical Oxygen Demand (COD) : 1.510 mg/g

Dissolved organic carbon (DOC) : 322 mg/g

Amides, C12-18 and C18-unsatd., N,N-bis(hydroxyethyl)

90622-74-5:

Biodegradability : Result: Readily biodegradable.

Alcohols, C9 – C11 –iso-, C10 –rich, ethoxylated, Alcohols, C9-11-iso-, C10-rich, ethoxylated

78330-20-8:

Biodegradability : Biodegradation: > 90 %
Method: OECD 301 E

Result: rapidly biodegradable
Biodegradation: > 60 %
Exposure time: 28 d
Method: OECD 301 B

Biochemical Oxygen Demand (BOD) : 1.650 mg/g
Incubation time: 30 d

Chemical Oxygen Demand (COD) : 2.500 mg/g

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

68891-38-3:

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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

Biochemical Oxygen Demand (BOD) : 285 mg/g
Incubation time: 5 d

Chemical Oxygen Demand (COD) : 518 mg/g

12.3 Bioaccumulative potential

Components:

ethanol

64-17-5:

Bioaccumulation : Concentration: 3,2 mg/l

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

Alcohols, C9 – C11 –iso-, C10 –rich, ethoxylated, Alcohols, C9-11-iso-, C10-rich, ethoxylated

78330-20-8:

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

Alcohols, C12-14, ethoxylated, sulfates, 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

68891-38-3:

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

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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 : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : The product should not be allowed to enter drains, water courses or the soil.
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.
Do not burn, or use a cutting torch on, the empty drum.

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 : 1993
IMDG : 1993
IATA : 1993

14.2 UN proper shipping name

ADR : FLAMMABLE LIQUID, N.O.S.
(ethanol)

IMDG : FLAMMABLE LIQUID, N.O.S.
(ethanol)

IATA : Flammable liquid, n.o.s.

14.3 Transport hazard class(es)

ADR : 3
IMDG : 3
IATA : 3

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14.4 Packing group

ADR

Classification Code : F1
Packaging group : III
Hazard Identification Number : 30
Labels : 3
Tunnel restriction code : (D/E)

IMDG

Packaging group : III
Labels : 3
EmS Number : F-E, S-E

IATA

(Cargo) : Flammable liquid, n.o.s.
Packaging group : III
Labels : 3

14.5 Environmental hazards

ADR

Environmentally hazardous : no

IMDG

Marine pollutant : no

IATA

Environmentally hazardous : no

14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country 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

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

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

: 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.

		Quantity 1	Quantity 2
P5c	FLAMMABLE LIQUIDS	5.000 000067	50.000 000067

TA Luft List (Germany) : Total dust: Not applicable
: Inorganic substances in powdered form: Not applicable
: Inorganic substances in vapor or gaseous form: Not applicable

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	: Organic Substances: : portionClass 1: < 0,01 %
	: Carcinogenic substances: Not applicable
	: mutagenic: Not applicable
	: 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: 26,26 %
according to Detergents Regulation EC 648/2004	: 5 - <15% anionic surfactants, non-ionic surfactants, perfumes

15.2 Chemical Safety Assessment

There is no data available for this product.

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.
H411	: 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 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; AIIIC - 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

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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, 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:

Flam. Liq. 3	H226
Eye Irrit. 2	H319
Skin Irrit. 2	H315
Aquatic Chronic 3	H412

Classification procedure:

On basis of test data.
On basis of test data.
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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