

Safety Data Sheet

according to Regulation (EC) No 1907/2006

TURBOGLU

Revision date: 06.06.2023

Product code: 6131401

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

1.1. Product identifier

TURBOGLU

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

Use of the substance/mixture

Adhesion promotor

1.3. Details of the supplier of the safety data sheet

Company name:	T1TAN GmbH
Street:	Johann-Neusch-Passage 1
Place:	D-79336 Herbolzheim
Telephone:	+49 761 887 911 500
E-mail:	support@t1tan.com
Contact person:	Vertrieb
E-mail:	support@t1tan.com
Internet:	https://t1tan.com/products/turboglu
Responsible Department:	Vertrieb

1.4. Emergency telephone number:

030-30686700

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

This mixture is not classified as hazardous in accordance with Regulation (EC) No 1272/2008.

2.2. Label elements

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Mixture of substances listed below with non-hazardous additions.

Hazardous ingredients: not applicable

Hazardous components

none (according to Regulation (EC) No 1907/2006 (REACH))

Labelling for contents according to Regulation (EC) No 648/2004

preservation agents (Phenoxyethanol, Natriumpyrithion, Benzisothiazolinone).

SECTION 4: First aid measures

4.1. Description of first aid measures

After inhalation

Provide fresh air.

After contact with skin

Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse.

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After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water. Consult an ophthalmologist.

After ingestion

Rinse mouth immediately and drink 1 glass of water. Do NOT induce vomiting. Call a physician in any case!

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

No information available.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings.

5.2. Special hazards arising from the substance or mixture

Non-flammable.

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

Use personal protection equipment.

6.2. Environmental precautions

No special environmental measures are necessary. Clean contaminated articles and floor according to the environmental legislation.

6.3. Methods and material for containment and cleaning up

For cleaning up

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

No special measures are necessary.

Advice on protection against fire and explosion

No special fire protection measures are necessary.

Advice on general occupational hygiene

Take off contaminated clothing. Wash hands before breaks and after work. When using do not eat, drink, smoke, sniff.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed.

Hints on joint storage

No special measures are necessary.

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.2. Exposure controls

Individual protection measures, such as personal protective equipment

Eye/face protection

Usually no personal respiratory protection necessary.

Hand protection

Hand protection is not required.

Skin protection

Body protection: not required.

Respiratory protection

Usually no personal respiratory protection necessary.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	Liquid	
Colour:	white	
Odour:	characteristic	
Melting point/freezing point:		not determined
Boiling point or initial boiling point and boiling range:		not determined
Flammability:		not applicable not applicable
Lower explosion limits:		not determined
Upper explosion limits:		not determined
Flash point:		not determined
Auto-ignition temperature:		not determined
Decomposition temperature:		not determined
pH-Value (at 20 °C):		7
Solubility in other solvents		not determined
Partition coefficient n-octanol/water:		not determined
Vapour pressure:		not determined
Density (at 20 °C):		1,024 g/cm ³
Relative vapour density:		not determined

9.2. Other information

Information with regard to physical hazard classes

Explosive properties

The product is not: Explosive.

Oxidizing properties

The product is not: oxidising.

Other safety characteristics

Evaporation rate:	not determined
Solid content:	not determined

SECTION 10: Stability and reactivity

10.1. Reactivity

No hazardous reaction when handled and stored according to provisions.

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10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

No known hazardous reactions.

10.4. Conditions to avoid

none

10.5. Incompatible materials

No information available.

10.6. Hazardous decomposition products

No known hazardous decomposition products.

SECTION 11: Toxicological information

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

Acute toxicity

Based on available data, the classification criteria are not met.

ATEmix calculated

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

Irritation and corrosivity

Based on available data, the classification criteria are not met.

Sensitising effects

Based on available data, the classification criteria are not met.

Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

STOT-single exposure

Based on available data, the classification criteria are not met.

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

11.2. Information on other hazards

Further information

The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

SECTION 12: Ecological information

12.1. Toxicity

Based on available data, the classification criteria are not met.

12.2. Persistence and degradability

The product has not been tested.

12.3. Bioaccumulative potential

The product has not been tested.

12.4. Mobility in soil

The product has not been tested.

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.
The product has not been tested.

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12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

12.7. Other adverse effects

No information available.

Further information

Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Dispose of waste according to applicable legislation.

Contaminated packaging

Wash with plenty of water. Completely emptied packages can be recycled.

SECTION 14: Transport information

Land transport (ADR/RID)

14.2. UN proper shipping name: No dangerous good in sense of these transport regulations.

Inland waterways transport (ADN)

14.2. UN proper shipping name: No dangerous good in sense of these transport regulations.

Marine transport (IMDG)

14.2. UN proper shipping name: No dangerous good in sense of these transport regulations.

Air transport (ICAO-TI/IATA-DGR)

14.2. UN proper shipping name: No dangerous good in sense of these transport regulations.

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

14.6. Special precautions for user

No information available.

14.7. Maritime transport in bulk according to IMO instruments

not applicable

SECTION 15: Regulatory information

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

EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 75

Information according to 2012/18/EU (SEVESO III): Not subject to 2012/18/EU (SEVESO III)

Additional information

Regulation (EC) No. 648/2004 [Detergents regulation].

National regulatory information

Water hazard class (D): 1 - slightly hazardous to water

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

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Abbreviations and acronyms

CLP: Classification, labelling and Packaging
REACH: Registration, Evaluation and Authorization of Chemicals
GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals
UN: United Nations
CAS: Chemical Abstracts Service
DNEL: Derived No Effect Level
DMEL: Derived Minimal Effect Level
PNEC: Predicted No Effect Concentration
ATE: Acute toxicity estimate
LC50: Lethal concentration, 50%
LD50: Lethal dose, 50%
LL50: Lethal loading, 50%
EL50: Effect loading, 50%
EC50: Effective Concentration 50%
ErC50: Effective Concentration 50%, growth rate
NOEC: No Observed Effect Concentration
BCF: Bio-concentration factor
PBT: persistent, bioaccumulative, toxic
vPvB: very persistent, very bioaccumulative
MARPOL: International Convention for the Prevention of Marine Pollution from Ships
IBC: Intermediate Bulk Container
VOC: Volatile Organic Compounds
SVHC: Substance of Very High Concern
For abbreviations and acronyms, see table at <http://abbrev.esdscom.eu>

Further Information

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)

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1.1. Product identifier

Turbogrip

UFI: JQ52-C9N7-R7R8-SKV0

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

Use of the substance/mixture

Professional use of laundry products

1.3. Details of the supplier of the safety data sheet

Company name: T1TAN GmbH
Street: Johann-Neusch-Passage 1
Place: D-79336 Herbolzheim
Telephone: +49 761 887 911 500
E-mail: support@t1tan.com
Contact person: Vertrieb
E-mail: support@t1tan.com
Internet: <https://t1tan.com/products/turbogrip>
Responsible Department: Vertrieb

1.4. Emergency telephone number:

030-30686700

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Eye Irrit. 2; H319

Full text of hazard statements: see SECTION 16.

2.2. Label elements

Regulation (EC) No 1272/2008

Signal word: Warning

Pictograms:



Hazard statements

Causes serious eye irritation.

Precautionary statements

Keep out of reach of children.

Wear eye protection/face protection.

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

If eye irritation persists: Get medical advice/attention.

Dispose of containers only when they are completely empty for collection of recyclables.

If medical advice is needed, have product container or label at hand.

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

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3.2. Mixtures

Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (Regulation (EC) No 1272/2008)			
	sodium alkylbenzenesulfonate			5 - < 10 %
	932-051-8		01-2119565112-48	
	Skin Irrit. 2, Eye Dam. 1, Aquatic Chronic 3; H315 H318 H412			
68891-38-3	Alcohols, C12-14, ethoxylated, sulfated, sodium salt (> 1 < 2,5 mol EO)			1 - < 5 %
	500-234-8		01-2119488639-16	
	Skin Irrit. 2, Eye Dam. 1, Aquatic Chronic 3; H315 H318 H412			
64-17-5	Ethanol			1 - < 5 %
	200-578-6			
	Flam. Liq. 2, Eye Irrit. 2; H225 H319			
97862-59-4	1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-C8-18 acyl derivs., inner salts			1 - < 5 %
	931-296-8		01-2119488533-30	
	Eye Dam. 1, Aquatic Chronic 3; H318 H412			
52-51-7	2-bromo-2-nitropropane-1,3-diol			< 0.1 %
	200-143-0		01-2119980938-15	
	Acute Tox. 4, Acute Tox. 4, Skin Irrit. 2, Eye Dam. 1, STOT SE 3, Aquatic Acute 1, Aquatic Chronic 1; H312 H302 H315 H318 H335 H400 H410			
78-93-3	butanone; ethyl methyl ketone			< 0.1 %
	201-159-0		01-2119457290-43	
	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336 EUH066			

Full text of H and EUH statements: see section 16.

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
	Specific Conc. Limits, M-factors and ATE		
	932-051-8	sodium alkylbenzenesulfonate	5 - < 10 %
	dermal: LD50 = > 2000 mg/kg; oral: LD50 = 5000 mg/kg		
68891-38-3	500-234-8	Alcohols, C12-14, ethoxylated, sulfated, sodium salt (> 1 < 2,5 mol EO)	1 - < 5 %
	dermal: LD50 = > 2000 mg/kg; oral: LD50 = 2870 mg/kg Eye Dam. 1; H318: >= 10 - 100 Eye Irrit. 2; H319: >= 5 - < 10		
64-17-5	200-578-6	Ethanol	1 - < 5 %
	inhalation: LC50 = >124,7 mg/l (vapours); oral: LD50 = 10470 mg/kg Eye Irrit. 2; H319: >= 50 - 100		
97862-59-4	931-296-8	1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-C8-18 acyl derivs., inner salts	1 - < 5 %
	dermal: LD50 = >5000 mg/kg; oral: LD50 = 2335 mg/kg Eye Dam. 1; H318: >= 10 - 100 Eye Irrit. 2; H319: >= 4 - < 10		
52-51-7	200-143-0	2-bromo-2-nitropropane-1,3-diol	< 0.1 %
	dermal: LD50 = 1600 mg/kg; oral: ATE = 500 mg/kg Aquatic Acute 1; H400: M=10 Aquatic Chronic 1; H410: M=1		
78-93-3	201-159-0	butanone; ethyl methyl ketone	< 0.1 %
	inhalation: LC50 = > 20 mg/l (vapours); dermal: LD50 = > 5000 mg/kg; oral: LD50 = 2193 mg/kg		

Labelling for contents according to Regulation (EC) No 648/2004

5 % - < 15 % anionic surfactants, < 5 % amphoteric surfactants, perfumes (Benzyl salicylate, Hexyl cinnamal, Limonene, Linalool), preservation agents (2-Bromo-2-nitropropane-1,3-diol, Benzisothiazolinone).

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SECTION 4: First aid measures

4.1. Description of first aid measures

After inhalation

Provide fresh air.

After contact with skin

Wash with plenty of water. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention.

After contact with eyes

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

After ingestion

Rinse mouth immediately and drink plenty of water. Do NOT induce vomiting. Immediately call a doctor.

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

No information available.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings.

5.2. Special hazards arising from the substance or mixture

Non-flammable.

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

Additional information

Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment.

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

Other information

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

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Advice on safe handling

No special measures are necessary.

Advice on protection against fire and explosion

No special fire protection measures are necessary.

Advice on general occupational hygiene

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink.

7.2. Conditions for safe storage, including any incompatibilities**Requirements for storage rooms and vessels**

Keep container tightly closed.

Hints on joint storage

No special measures are necessary.

7.3. Specific end use(s)

Professional use of laundry products

SECTION 8: Exposure controls/personal protection**8.1. Control parameters****Occupational exposure limit values**

CAS No	Name of agent	ppm	mg/m ³	fib/cm ³	Category	Origin
78-93-3	Butanone	200	600		TWA (8 h)	
		300	900		STEL (15 min)	

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DNEL/DMEL values

CAS No	Name of agent		
DNEL type	Exposure route	Effect	Value
	sodium alkylbenzenesulfonate		
Worker DNEL, long-term	dermal	systemic	85 mg/kg bw/day
Worker DNEL, long-term	inhalation	systemic	6 mg/m ³
Consumer DNEL, long-term	dermal	systemic	42,5 mg/kg bw/day
Consumer DNEL, long-term	inhalation	systemic	1,5 mg/m ³
Consumer DNEL, long-term	oral	systemic	0,425 mg/kg bw/day
68891-38-3	Alcohols, C12-14, ethoxylated, sulfated, sodium salt (> 1 < 2,5 mol EO)		
Worker DNEL, long-term	dermal	systemic	2750 mg/kg bw/day
Worker DNEL, long-term	inhalation	systemic	175 mg/m ³
Consumer DNEL, long-term	dermal	systemic	1650 mg/kg bw/day
Consumer DNEL, long-term	inhalation	systemic	52 mg/m ³
Consumer DNEL, long-term	oral	systemic	15 mg/kg bw/day
64-17-5	Ethanol		
Worker DNEL, long-term	inhalation	systemic	950 mg/m ³
Worker DNEL, acute	inhalation	local	1900 mg/m ³
Worker DNEL, long-term	dermal	systemic	343 mg/kg bw/day
Consumer DNEL, long-term	inhalation	systemic	114 mg/m ³
Consumer DNEL, acute	inhalation	local	950 mg/m ³
Consumer DNEL, long-term	dermal	systemic	206 mg/kg bw/day
Consumer DNEL, long-term	oral	systemic	87 mg/kg bw/day
97862-59-4	1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-C8-18 acyl derivs., inner salts		
Worker DNEL, long-term	dermal	systemic	12,5 mg/kg bw/day
Worker DNEL, long-term	inhalation	systemic	44 mg/m ³
Consumer DNEL, long-term	oral	systemic	7,5 mg/kg bw/day
Consumer DNEL, long-term	dermal	systemic	7,5 mg/kg bw/day
Consumer DNEL, long-term	inhalation	systemic	13,04 mg/m ³

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PNEC values

CAS No	Name of agent	Value
Environmental compartment		
sodium alkylbenzenesulfonate		
Freshwater		0,268 mg/l
Marine water		0,0268 mg/l
Freshwater sediment		8,1 mg/kg
Marine sediment		8,1 mg/kg
Micro-organisms in sewage treatment plants (STP)		5,6 mg/l
Soil		35 mg/kg
68891-38-3	Alcohols, C12-14, ethoxylated, sulfated, sodium salt (> 1 < 2,5 mol EO)	
Freshwater		0,24 mg/l
Marine water		0,024 mg/l
Freshwater sediment		0,9168 mg/kg
Marine sediment		0,09168 mg/kg
Micro-organisms in sewage treatment plants (STP)		10000 mg/l
Soil		7,5 mg/kg
64-17-5	Ethanol	
Freshwater		0,96 mg/l
Marine water		0,79 mg/l
Freshwater sediment		3,6 mg/kg
Marine sediment		2,9 mg/kg
Secondary poisoning		720 mg/kg
Micro-organisms in sewage treatment plants (STP)		580 mg/l
Soil		0,63 mg/kg
97862-59-4	1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-C8-18 acyl derivs., inner salts	
Freshwater		0,013 mg/l
Marine water		0,001 mg/l
Freshwater sediment		11,1 mg/kg
Marine sediment		1,11 mg/kg
Soil		0,85 mg/kg

8.2. Exposure controls



Individual protection measures, such as personal protective equipment

Eye/face protection

Safety glasses with side protection (EN 166)

Hand protection

Recommendation:

Protective gloves (EN 374)

Suitable material:

NR (natural rubber, Natural latex)

Thickness of the glove material: $\geq 0,4$ mm

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Breakthrough time: > 480 min
 NBR (Nitrile rubber)
 Thickness of the glove material: $\geq 0,4$ mm
 Breakthrough time: > 480 min

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Skin protection

Wear suitable protective clothing.

Respiratory protection

Usually no personal respirative protection necessary.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	Liquid	
Colour:	light yellow	
Odour:	characteristic	
Melting point/freezing point:		not determined
Boiling point or initial boiling point and boiling range:		not determined
Flammability:		not applicable
		not applicable
Lower explosion limits:		not determined
Upper explosion limits:		not determined
Flash point:		not determined
Decomposition temperature:		not determined
pH-Value (at 20 °C):		6,2
Water solubility:		easily soluble
Solubility in other solvents		
not determined		
Partition coefficient n-octanol/water:		not determined
Vapour pressure:		not determined
Density (at 20 °C):		1,026 g/cm ³
Relative vapour density:		not determined

9.2. Other information

Information with regard to physical hazard classes

Self-ignition temperature	
Solid:	not applicable
Gas:	not applicable
Oxidizing properties	
Not oxidising.	

Other safety characteristics

Evaporation rate:	not determined
Solid content:	not determined
Viscosity / dynamic: (at 20 °C)	24 mPa·s

SECTION 10: Stability and reactivity

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10.1. Reactivity

No hazardous reaction when handled and stored according to provisions.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

No known hazardous reactions.

10.4. Conditions to avoid

none

10.5. Incompatible materials

No information available.

10.6. Hazardous decomposition products

No known hazardous decomposition products.

SECTION 11: Toxicological information

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

Acute toxicity

Based on available data, the classification criteria are not met.

ATEmix calculated

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

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CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
	sodium alkylbenzenesulfonate				
	oral	LD50 mg/kg	5000	Rat	OECD 401
	dermal	LD50 mg/kg	> 2000	Rat	OECD 402
68891-38-3	Alcohols, C12-14, ethoxylated, sulfated, sodium salt (> 1 < 2,5 mol EO)				
	oral	LD50 mg/kg	2870	Rat	OECD 401
	dermal	LD50 mg/kg	> 2000	Rat	OECD 402
64-17-5	Ethanol				
	oral	LD50 mg/kg	10470	Rat	OECD 401
	inhalation (4 h) vapour	LC50 mg/l	>124,7	Rat	OECD 403
97862-59-4	1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-C8-18 acyl derivs., inner salts				
	oral	LD50 mg/kg	2335	Rat	OECD 401
	dermal	LD50 mg/kg	>5000	Rat	
52-51-7	2-bromo-2-nitropropane-1,3-diol				
	oral	ATE	500 mg/kg		
	dermal	LD50 mg/kg	1600	Rat	
78-93-3	butanone; ethyl methyl ketone				
	oral	LD50 mg/kg	2193	Rat	OECD 423
	dermal	LD50 mg/kg	> 5000	Rabbit	OECD 402
	inhalation (4 h) vapour	LC50	> 20 mg/l	Rat	

Irritation and corrosivity

Causes serious eye irritation.

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Sensitising effects

Based on available data, the classification criteria are not met.

Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

STOT-single exposure

Based on available data, the classification criteria are not met.

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

Additional information on tests

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

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SECTION 12: Ecological information**12.1. Toxicity**

Based on available data, the classification criteria are not met.

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CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
	sodium alkylbenzenesulfonate					
	Acute fish toxicity	LC50 5,5 mg/l	96 h	Oncorhynchus mykiss (Rainbow trout)		
	Acute crustacea toxicity	EC50 6,3 mg/l	48 h	Daphnia magna (Big water flea)		
68891-38-3	Alcohols, C12-14, ethoxylated, sulfated, sodium salt (> 1 < 2,5 mol EO)					
	Acute fish toxicity	LC50 7,1 mg/l	96 h	Danio rerio (zebrafish)		
	Acute algae toxicity	ErC50 27 mg/l	72 h	Scenedesmus subspicatus		
	Acute crustacea toxicity	EC50 7,2 mg/l	48 h	Daphnia magna (Big water flea)		
	Crustacea toxicity	NOEC 0,27 mg/l	21 d	Daphnia magna (Big water flea)		
64-17-5	Ethanol					
	Acute fish toxicity	LC50 mg/l 15300	96 h	Pimephales promelas (fathead minnow)		ECHA / IUCLID
	Acute algae toxicity	ErC50 275 mg/l	72 h	Chlorella vulgaris		OECD 201
	Acute crustacea toxicity	EC50 mg/l 14221	48 h	Daphnia magna (Big water flea)		ECHA / IUCLID
	Crustacea toxicity	NOEC 9,6 mg/l	9 d	Daphnia magna (Big water flea)		ECHA / IUCLID
97862-59-4	1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-C8-18 acyl derivs., inner salts					
	Acute fish toxicity	LC50 1,11 mg/l	96 h	Pimephales promelas		OECD 203
	Acute algae toxicity	ErC50 2,4 mg/l	72 h	Desmodesmus subspicatus		
	Acute crustacea toxicity	EC50 1,9 mg/l	48 h	Daphnia magna (Big water flea)		OECD 202
	Fish toxicity	NOEC mg/l 0,135	37 d	Oncorhynchus mykiss (Rainbow trout)		OECD 210
	Algae toxicity	NOEC 0,6 mg/l	3 d	Desmodesmus subspicatus		OECD 211
	Crustacea toxicity	NOEC 0,3 mg/l	21 d			
52-51-7	2-bromo-2-nitropropane-1,3-diol					
	Acute fish toxicity	LC50 11 mg/l	96 h	Lepomis macrochirus (Bluegill)		OECD 203
	Acute algae toxicity	ErC50 mg/l 0,068	72 h	Anabaena flos aqua		OECD 201
	Acute crustacea toxicity	EC50 1,04 mg/l	48 h	Daphnia magna (Big water flea)		OECD 202
	Fish toxicity	NOEC 2,61 mg/l	28 d	Oncorhynchus mykiss (Rainbow trout)		OECD 215
	Algae toxicity	NOEC mg/l 0,0025	3 d	Anabaena flos aqua		OECD 201
	Crustacea toxicity	NOEC 0,06 mg/l	21 d	Daphnia magna (Big water flea)		OECD 211
	Acute bacteria toxicity	(EC50 11 mg/l)	3 h	Activated sludge		OECD 209
78-93-3	butanone; ethyl methyl ketone					
	Acute fish toxicity	LC50 mg/l 3200	96 h	Pimephales promelas (fathead minnow)		OECD 203

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	Acute algae toxicity	ErC50 mg/l	1972	72 h	Pseudokirchneriella subcapitata		OECD 201
	Acute crustacea toxicity	EC50 mg/l	5091	48 h	Daphnia magna (Big water flea)		OECD 202

12.2. Persistence and degradability

The product has not been tested.

CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
	sodium alkylbenzenesulfonate			
	OECD 301A	70%	28	
	Readily biodegradable (according to OECD criteria).			
68891-38-3	Alcohols, C12-14, ethoxylated, sulfated, sodium salt (> 1 < 2,5 mol EO)			
	OECD 301A	>60%	28	
	Readily biodegradable (according to OECD criteria).			
64-17-5	Ethanol			
	OECD 301E	94 %	28	
	Readily biodegradable (according to OECD criteria).			
97862-59-4	1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-C8-18 acyl derivs., inner salts			
	OECD 301B	91,6 %	28	
	Readily biodegradable (according to OECD criteria).			
52-51-7	2-bromo-2-nitropropane-1,3-diol			
	OECD 301B	>70%	28	
	Readily biodegradable (according to OECD criteria).			
78-93-3	butanone; ethyl methyl ketone			
	Biodegradation	98 %	28	
	Readily biodegradable (according to OECD criteria).			

12.3. Bioaccumulative potential

The product has not been tested.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
68891-38-3	Alcohols, C12-14, ethoxylated, sulfated, sodium salt (> 1 < 2,5 mol EO)	0,3
97862-59-4	1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-C8-18 acyl derivs., inner salts	2,0 - 5,1
52-51-7	2-bromo-2-nitropropane-1,3-diol	0,38
78-93-3	butanone; ethyl methyl ketone	0,3

BCF

CAS No	Chemical name	BCF	Species	Source
64-17-5	Ethanol	0,66		
52-51-7	2-bromo-2-nitropropane-1,3-diol	3,16		

12.4. Mobility in soil

The product has not been tested.

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

The product has not been tested.

12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

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12.7. Other adverse effects

No information available.

Further information

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

SECTION 13: Disposal considerations**13.1. Waste treatment methods****Disposal recommendations**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation.

Contaminated packaging

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information**Land transport (ADR/RID)****14.2. UN proper shipping name:** No dangerous good in sense of these transport regulations.**Inland waterways transport (ADN)****14.2. UN proper shipping name:** No dangerous good in sense of these transport regulations.**Marine transport (IMDG)****14.2. UN proper shipping name:** No dangerous good in sense of these transport regulations.**Air transport (ICAO-TI/IATA-DGR)****14.2. UN proper shipping name:** No dangerous good in sense of these transport regulations.**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: No

14.6. Special precautions for user

No information available.

14.7. Maritime transport in bulk according to IMO instruments

not applicable

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulatory information**

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 40

2010/75/EU (VOC): 3,621 %

Additional information

Regulation (EC) No. 648/2004 [Detergents regulation].

National regulatory information

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).

Water hazard class (D): 2 - obviously hazardous to water

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

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Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route
(European Agreement concerning the International Carriage of Dangerous Goods by Road)
 IMDG: International Maritime Code for Dangerous Goods
 IATA: International Air Transport Association
 GHS: Globally Harmonized System of Classification and Labelling of Chemicals
 EINECS: European Inventory of Existing Commercial Chemical Substances
 ELINCS: European List of Notified Chemical Substances
 CAS: Chemical Abstracts Service
 LC50: Lethal concentration, 50%
 LD50: Lethal dose, 50%
 Flam. Liq: Flammable liquid
 Acute Tox: Acute toxicity
 Skin Irrit: Skin irritation
 Eye Dam: Eye damage
 Eye Irrit: Eye irritation
 STOT SE: Specific target organ toxicity - single exposure
 Aquatic Acute: Acute aquatic hazard
 Aquatic Chronic: Chronic aquatic hazard

Classification for mixtures and used evaluation method according to Regulation (EC) No 1272/2008 [CLP]

Classification	Classification procedure
Eye Irrit. 2; H319	Calculation method

Relevant H and EUH statements (number and full text)

Highly flammable liquid and vapour.
 Harmful if swallowed.
 Harmful in contact with skin.
 Causes skin irritation.
 Causes serious eye damage.
 Causes serious eye irritation.
 May cause respiratory irritation.
 May cause drowsiness or dizziness.
 Very toxic to aquatic life.
 Very toxic to aquatic life with long lasting effects.
 Harmful to aquatic life with long lasting effects.
 Repeated exposure may cause skin dryness or cracking.

Further Information

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)