

## ACTIV liquid 15 I

WM 0712822

Order number: 0712822

Version 7.0

Revision Date 08.05.2020

Print Date 24.08.2020

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

#### 1.1 Product identifier

Trade name : ACTIV liquid 15 I  
Identification number : 61795

#### 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 : +4961319642414  
E-mail address : Produktsicherheit@werner-mertz.com  
Responsible/issuing person  
Contact person : Product development / product safety

#### 1.4 Emergency telephone number

112  
+49(0)6131-19240

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

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

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

#### 2.2 Label elements

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

Hazard pictograms :



Signal word : Warning

Hazard statements : H319 Causes serious eye irritation.

Precautionary statements : P102 Keep out of reach of children.

**Response:**  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P337 + P313 If eye irritation persists: Get medical advice/

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**Disposal:** attention.  
P501 Dispose of contents/ container to an approved waste disposal plant.

Safety data sheet available on request.

### 2.3 Other hazards

No information available.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

Chemical nature : Aqueous surfactant solution.

#### Hazardous components

Chemical name	CAS-No. EC-No. Registration number	Classification	Concentration (% w/w)
Fatty acids, coco, sodium salts	61789-31-9 263-050-4	Eye Irrit. 2; H319 Skin Irrit. 2; H315	>= 10 - < 15
Alcohols, C12-16, ethoxylated (7 EO)	68551-12-2	Eye Dam. 1; H318 Aquatic Chronic 3; H412 Acute Tox. 4; H302	>= 10 - < 15
ethanol	64-17-5 200-578-6 01-2119457610-43	Flam. Liq. 2; H225 Eye Irrit. 2; H319  SCL >= 50 % 2; H319	>= 2 - < 5
Alcohols, C12-14, ethoxylated, sulfates, sodium salts	68891-38-3  01-2119488639-16	Skin Irrit. 2; H315 Eye Dam. 1; H318 Aquatic Chronic 3; H412  SCL 5 - < 10 % 2; H319 >= 10,0 % 1; H318	>= 3 - < 5
D-Glucopyranose, oligomeric, C10-16-alkyl glycosides	110615-47-9  01-2119489418-23	Skin Irrit. 2; H315 Eye Dam. 1; H318  SCL > 12 - 30 % 1; H318 1 - 12 % 2; H319	>= 2 - < 3

For explanation of abbreviations see section 16.

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### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

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

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

- Symptoms : Irritation
- Risks : No information available.

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

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

### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

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

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

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

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### 5.3 Advice for firefighters

- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.
- Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

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## SECTION 6: Accidental release measures

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

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

### 6.2 Environmental precautions

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

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

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

### 6.4 Reference to other sections

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

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

- Advice on safe handling : Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Dispose of rinse water in accordance with local and national regulations.
- Advice on protection against fire and explosion : Vapours 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. Store at room temperature in the original container.
- Other data : No decomposition if stored and applied as directed.

### 7.3 Specific end use(s)

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Specific use(s) : Cleaning agent

### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

Contains no substances with occupational exposure limit values.

#### DNEL

ethanol 64-17-5:	: End Use: Workers Exposure routes: Inhalation Potential health effects: Acute local effects Value: 1900 mg/m <sup>3</sup>	
	End Use: Workers Exposure routes: Inhalation Potential health effects: Long-term systemic effects Value: 950 mg/m <sup>3</sup>	
	End Use: Workers Exposure routes: Skin contact Potential health effects: Long-term systemic effects Value: 343 mg/kg	
	End Use: Consumers Exposure routes: Inhalation Potential health effects: Acute local effects Value: 950 mg/m <sup>3</sup>	
	End Use: Consumers Exposure routes: Skin contact Potential health effects: Long-term systemic effects Value: 206 mg/kg	
	End Use: Consumers Exposure routes: Inhalation Potential health effects: Long-term systemic effects Value: 114 mg/m <sup>3</sup>	
	End Use: Consumers Exposure routes: Ingestion Potential health effects: Long-term systemic effects Value: 87 mg/kg	
	End Use: Consumers Exposure routes: Skin contact Potential health effects: Acute local effects Value: 950 mg/m <sup>3</sup>	
	Alcohols, C12-14, ethoxylated, sulfates, sodium salts 68891-38-3:	: End Use: Workers Exposure routes: Skin contact Potential health effects: Long-term systemic effects Value: 2750 mg/kg bw/day

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**D-Glucopyranose, oligomeric,  
C10-16-alkyl glycosides  
110615-47-9:**

End Use: Workers  
Exposure routes: Inhalation  
Potential health effects: Long-term systemic effects  
Value: 175 mg/m<sup>3</sup>

End Use: Consumers  
Exposure routes: Skin contact  
Potential health effects: Long-term systemic effects  
Value: 1650 mg/kg bw/day

End Use: Consumers  
Exposure routes: Inhalation  
Potential health effects: Long-term systemic effects  
Value: 52 mg/m<sup>3</sup>

End Use: Consumers  
Exposure routes: Ingestion  
Potential health effects: Long-term systemic effects  
Value: 15 mg/kg

End Use: Workers  
Exposure routes: Skin contact  
Potential health effects: Long-term local effects  
Value: 0,132 mg/cm<sup>2</sup>

End Use: Consumers  
Exposure routes: Skin contact  
Potential health effects: Long-term local effects  
Value: 0,079 mg/cm<sup>2</sup>

End Use: Workers  
Exposure routes: Skin contact  
Potential health effects: Long-term systemic effects  
Value: 595000 mg/kg

End Use: Workers  
Exposure routes: Inhalation  
Potential health effects: Long-term systemic effects  
Value: 420 mg/m<sup>3</sup>

End Use: Consumers  
Exposure routes: Skin contact  
Potential health effects: Long-term systemic effects  
Value: 357000 mg/kg

End Use: Consumers  
Exposure routes: Inhalation  
Potential health effects: Long-term systemic effects  
Value: 124 mg/m<sup>3</sup>

End Use: Consumers  
Exposure routes: Ingestion  
Potential health effects: Long-term systemic effects  
Value: 35,7 mg/kg

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<b>ethanol</b> <b>64-17-5:</b>	:	Fresh water
		Value: 0,96 mg/l
		Marine water
		Value: 0,79 mg/l
		Fresh water sediment
		Value: 3,6 mg/kg
	Soil	
	Value: 0,63 mg/kg	
	STP	
	Value: 580 mg/l	
	intermittent release	
	Value: 2,75 mg/l	
<b>Alcohols, C12-14, ethoxylated, sulfates, sodium salts</b> <b>68891-38-3:</b>	:	Fresh water
		Value: 0,24 mg/l
		Marine water
		Value: 0,024 mg/l
		Fresh water sediment
		Value: 0,9168 mg/kg
		Marine sediment
		Value: 0,09168 mg/kg
		Soil
	Value: 7,5 mg/kg dry weight (d.w.)	
	STP	
	Value: 10000 mg/l	
	intermittent release	
	Value: 0,071 mg/l	
	Fresh water sediment	
	Value: 5,45 mg/kg	
	Marine sediment	
	Value: 0,545 mg/kg	
<b>D-Glucopyranose, oligomeric, C10-16-alkyl glycosides</b> <b>110615-47-9:</b>	:	Fresh water
		Value: 0,176 mg/l
		Marine water
		Value: 0,018 mg/l
		Fresh water sediment
		Value: 1,516 mg/kg
	Marine sediment	
	Value: 0,065 mg/kg	
	Soil	

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Value: 0,654 mg/kg

STP

Value: 5000 mg/l

intermittent release

Value: 0,0295 mg/l

### 8.2 Exposure controls

#### Personal protective equipment

Eye 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 374-1: 2003 (0,4 mm).  
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

#### Environmental exposure controls

General advice : Do not flush into surface water or sanitary sewer system.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Appearance : liquid

Colour : translucent, cloudy

Odour : characteristic

Odour Threshold : No data available

pH : ca. 8,4, at20 °C

Melting point/range : No data available



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Boiling point/boiling range	: No data available
Flash point	: 58 °C
Evaporation rate	: No data available
Flammability (solid, gas)	: No data available
Flammability (liquids)	: Not classified as supporting combustion according to the transport regulations.
Burning rate	: No data available
Lower explosion limit	: No data available
Upper explosion limit	: No data available
Vapour pressure	: No data available
Relative vapour density	: No data available
Relative density	: No data available
Density	: ca. 1,055 g/cm <sup>3</sup> at 20 °C
Water solubility	: in all proportions, soluble
Solubility in other solvents	: No data available
Partition coefficient: n-octanol/water	: No data available
Ignition temperature	: No data available
Thermal decomposition	: No data available
Viscosity, dynamic	: ca. 140 mPa.s at 20 °C
Viscosity, kinematic	: No data available
Explosive properties	: No data available
Oxidizing properties	: 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.

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### 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

Hazardous decomposition products : No hazardous decomposition products are known.

Other information : No hazardous decomposition products are known.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Product

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

Skin corrosion/irritation : No skin irritation

Serious eye damage/eye irritation : No eye irritation  
Causes serious eye irritation.

Respiratory or skin sensitisation : No data available

Germ cell mutagenicity : Not Rated

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.

Aspiration toxicity : Not Rated

Further information : No data available

#### Components:

##### **Alcohols, C12-16, ethoxylated (7 EO)**

###### **68551-12-2:**

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

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Skin corrosion/irritation	: Species: Rabbit Result: No skin irritation
Serious eye damage/eye irritation	: Species: Rabbit Result: Risk of serious damage to eyes.
<b>ethanol</b>	
<b>64-17-5:</b>	
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
Skin corrosion/irritation	: Species: Rabbit Result: No skin irritation Method: OECD Test Guideline 404
Serious eye damage/eye irritation	: Species: Rabbit Result: Mild eye irritation Method: OECD Test Guideline 405
Respiratory or skin sensitisation	: Species: Mouse Result: Does not cause skin sensitisation. Method: see user defined free text
Reproductive toxicity	: Species: Rat Application Route: Oral NOAEL: 5.200 mg/kg  Species: Rat Application Route: Oral NOAEL: 13.800 mg/kg  Species: Rat Application Route: Inhalation NOAEL: 30400 mg/m3
Repeated dose toxicity	: Rat, male: NOAEL: > 20 mg/kg  Method: OECD Test Guideline 403

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Rat, female: NOAEL: 1.730 mg/kg

Method: OECD Test Guideline 408

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

#### 68891-38-3:

Acute oral toxicity : LD50 Oral Rat: 2.870 mg/kg  
Method: OECD Test Guideline 401

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

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

Skin corrosion/irritation : Species: Rabbit  
Method: OECD Test Guideline 404

Serious eye damage/eye irritation : Species: Rabbit  
Method: OECD Test Guideline 405

Respiratory or skin sensitisation : Result: Does not cause skin sensitisation.

#### Germ cell mutagenicity

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

Reproductive toxicity : Species: Rat  
Application Route: Oral  
NOAEL: > 300 mg/kg,  
F1: > 300 mg/kg, Method: OECD Test Guideline 416

Teratogenicity : Species: Rat  
Application Route: Oral  
>1.000 mg/kg  
> 1.000 mg/kg  
Method: OECD Test Guideline 414

Repeated dose toxicity : NOAEL: 300 mg/kg

STOT - repeated exposure : Exposure routes: Ingestion  
Target Organs: Liver

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

#### 110615-47-9:

Acute oral toxicity : LD50 Oral : > 5.000 mg/kg

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Acute dermal toxicity : LD50 Dermal : > 5.000 mg/kg  
Method: OECD Test Guideline 402

### SECTION 12: Ecological information

#### 12.1 Toxicity

##### Components:

##### **Alcohols, C12-16, ethoxylated (7 EO)**

##### **68551-12-2:**

Toxicity to fish : (Danio rerio (zebra fish)): Exposure time: 96 h  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia (water flea)): 0,17 mg/l

Toxicity to bacteria : EC50 (Natural microorganism): 846 mg/l  
Method: OECD Test Guideline 209

##### **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 : 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

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EC10 : 11,5 mg/l  
EC10 : 280 mg/l  
Toxicity to bacteria : EC50 (Pseudomonas putida): 11.800 mg/l  
Exposure time: 16 h  
Test Type: Cell multiplication inhibition test

### 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: semi-static test  
Method: OECD Test Guideline 203  
  
LC50 (Leuciscus idus (Golden orfe)): 10 - 100 mg/l  
Method: OECD Test Guideline 203  
  
NOEC (Oncorhynchus mykiss (rainbow trout)): 0,14 mg/l  
Exposure time: 28 d  
Test Type: flow-through test  
Method: OECD Test Guideline 204  
  
LC50 (Brachydanio rerio (zebrafish)): 1 - 10 mg/l  
Test Type: flow-through test  
Method: OECD Test Guideline 203  
  
LC50 (Brachydanio rerio (zebrafish)): 7,1 mg/l  
Exposure time: 96 h  
  
Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia pulex (Water flea)): 7,4 mg/l  
Exposure time: 48 h  
Test Type: Immobilization  
Method: OECD Test Guideline 202  
  
EC50 (Daphnia magna (Water flea)): > 1 - 10 mg/l  
Exposure time: 48 h  
Test Type: static test  
Method: OECD Test Guideline 202  
  
NOEC (Daphnia magna (Water flea)): 0,27 mg/l  
Exposure time: 21 d  
Test Type: flow-through test  
Method: OECD Test Guideline 211  
  
(Daphnia magna (Water flea)): 7,2 mg/l  
Exposure time: 48 h  
  
Toxicity to algae : EC50 (Desmodesmus subspicatus (green algae)): 27,7 mg/l  
Exposure time: 72 h  
Test Type: Growth inhibition  
Method: OECD Test Guideline 201  
GLP: yes

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	EC50 ( <i>Scenedesmus subspicatus</i> ): 10 - 100 mg/l Method: OECD Test Guideline 201
	EC50 ( <i>Desmodesmus subspicatus</i> (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 ( <i>Desmodesmus subspicatus</i> (green algae)): 0,93 mg/l Exposure time: 72 h Test Type: static test Method: OECD Test Guideline 201
Toxicity to bacteria	: 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 Test Type: Cell multiplication inhibition test GLP:
Toxicity to fish (Chronic toxicity)	: NOEC: 1,2 mg/l  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
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
Toxicity to soil dwelling organisms	: NOEC: 750 mg/kg Exposure time: 96 d Species: <i>Eisenia fetida</i> (earthworms) Method: OECD Test Guideline 222

### 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 ( <i>Brachydanio rerio</i> (zebrafish)): 2,95 mg/l Exposure time: 96 h Method: OECD Test Guideline 203

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Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia (water flea)): > 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	: 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 bacteria	: 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
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

### 12.2 Persistence and degradability

#### Product:

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

#### Components:

##### Alcohols, C12-16, ethoxylated (7 EO)

##### 68551-12-2:

Biodegradability : Result: rapidly biodegradable  
Biodegradation: 87 %  
Exposure time: 28 d

Chemical Oxygen Demand (COD) : 2.160 mg/g

ethanol



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### 64-17-5:

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

### 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

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

#### 110615-47-9:

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

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

#### 68891-38-3:

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

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

#### 110615-47-9:

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

## 12.4 Mobility in soil

### Components:

#### ethanol

##### 64-17-5:

Distribution among  
environmental compartments : Koc: 1Remarks: Highly mobile in soils

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

#### 68891-38-3:

Distribution among  
environmental compartments : Adsorption/Soil  
Medium: Soil  
Koc: 191Method: see user defined free text

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### 12.5 Results of PBT and vPvB assessment

**Components:**

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

68891-38-3:

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

### 12.6 Other adverse effects

**Product:**

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

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product : Do not dispose of waste into sewer.  
Do not contaminate ponds, waterways or ditches with chemical or used container.  
Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.  
Do not re-use empty containers.

## SECTION 14: Transport information

### 14.1 UN number

ADR

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

### 14.2 Proper shipping name

Not regulated as a dangerous good

### 14.3 Transport hazard class

ADR

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

### 14.4 Packing group

ADR

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

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### 14.5 Environmental hazards

**ADR**

Not dangerous goods

**IMDG**

Not regulated as a dangerous good

**IATA**

Not dangerous goods

### 14.6 Special precautions for user

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

For personal protection see section 8.

### 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

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, preparations and articles (Annex XVII) : See Annex XVII to Regulation (EC) no 1907/2006 for Conditions of restriction

Seveso III: Directive 2012/18/EU of the European Parliament and of 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 vapour or gaseous form: Not applicable  
: 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 emissions (integrated pollution prevention and control)  
Update: Percent volatile: 5,28 %  
146,19 g/l  
VOC content excluding water

Volatile organic compounds (VOC) content : Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control)  
Update: Percent volatile: 5,28 %  
55,68 g/l  
VOC content valid only for coating materials used on wood surfaces

according to Detergents : 5 - <15% Non-ionic surfactants, soap, <5% phosphonates, Anionic

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according to Regulation (EC) No. 1907/2006



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Regulation EC 648/2004                      surfactants, enzymes, optical brighteners, Perfumes, PROTEASE, AMYLASE, LIPASE, CELLULASE, MANNANASE

GISBAU (D)                                      : no assignment possible

### 15.2 Chemical safety assessment

### SECTION 16: Other information

#### Full text of H-Statements

H225	Highly flammable liquid and vapour.
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.

#### Further information

Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

Classification procedure:                      H319                      On basis of test data.

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

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



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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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