

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

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## GREASE OFF QUICK & EASY 6X325 ML

WM 1113684

Order number: 0713684

Version 5.5

Revision Date 22.04.2021

Print Date 24.09.2021

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

#### 1.1 Product identifier

Trade name : GREASE OFF QUICK & EASY 6X325 ML  
Identification number : 64442

#### 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  
Centru za kontrolu otrovanja u Zagrebu na tel. (01) 2348 342  
+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.

**Prevention:**

P260

Do not breathe spray.

**Response:**

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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 contents/ container to an approved waste disposal plant.

Safety data sheet available on request.

**Classification in use concentration**

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

### 2.3 Other hazards

No information available.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

**Hazardous components**

Chemical name	CAS-No. EC-No. Registration number	Classification	Concentration (% w/w)
2,2'-methyliminodiethanol	105-59-9 203-312-7 01-2119488970-24	Eye Irrit. 2; H319	>= 5 - < 10
Decan-1-ol.ethoxylated	26183-52-8  Polymer	Eye Irrit. 2; H319 Acute Tox. 4; H302	>= 2 - < 5
1-phenoxypropan-2-ol	770-35-4 212-222-7 01-2119486566-23	Eye Irrit. 2; H319	>= 2 - < 5
ethanol	64-17-5 200-578-6 01-2119457610-43	Flam. Liq. 2; H225 Eye Irrit. 2; H319  SCL >= 50 % 2; H319	>= 1 - < 2
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	>= 1 - < 2

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1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts	147170-44-3 931-296-8 01-2119488533-30	Eye Dam. 1; H318 Aquatic Chronic 3; H412  SCL > 4 - 10 % 2; H319 > 10,0 % 1; H318 > 30 % 5; H303, H313	>= 1 - < 2
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For explanation of abbreviations see section 16.

### 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

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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

### **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 : Neutralise with acid.  
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 : Normal measures for preventive fire protection.

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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)

Specific use(s) : Cleaning agent

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

Contains no substances with occupational exposure limit values.

#### DNEL

**2,2'-methyliminodiethanol**  
**105-59-9:**

: End Use: Workers  
Exposure routes: Inhalation  
Potential health effects: Long-term systemic effects  
Value: 26 mg/m<sup>3</sup>

End Use: Workers  
Exposure routes: Dermal  
Potential health effects: Long-term systemic effects  
Value: 19 mg/kg

End Use: Consumers  
Exposure routes: Dermal  
Potential health effects: Long-term systemic effects  
Value: 9,4 mg/kg

End Use: Consumers  
Exposure routes: Inhalation  
Potential health effects: Long-term systemic effects  
Value: 6,5 mg/m<sup>3</sup>

End Use: Consumers  
Exposure routes: Oral  
Potential health effects: Long-term systemic effects  
Value: 1,9 mg/kg

**1-phenoxypropan-2-ol**  
**770-35-4:**

: End Use: Workers  
Exposure routes: Skin contact  
Potential health effects: Long-term systemic effects  
Value: 42 mg/kg bw/day

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**ethanol  
64-17-5:**

End Use: Workers  
Exposure routes: Inhalation  
Potential health effects: Long-term systemic effects  
Value: 25,7 mg/m3

End Use: Consumers  
Exposure routes: Skin contact  
Potential health effects: Long-term systemic effects  
Value: 21 mg/kg bw/day

End Use: Consumers  
Exposure routes: Ingestion  
Potential health effects: Long-term systemic effects  
Value: 3,65 mg/kg bw/day

End Use: Consumers  
Exposure routes: Inhalation  
Potential health effects: Long-term exposure, Systemic effects  
Value: 12,7 mg/m3

: End Use: Workers  
Exposure routes: Inhalation  
Potential health effects: Acute local effects  
Value: 1900 mg/m3

End Use: Workers  
Exposure routes: Inhalation  
Potential health effects: Long-term systemic effects  
Value: 950 mg/m3

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/m3

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/m3

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

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Value: 950 mg/m3

**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

End Use: Workers  
Exposure routes: Inhalation  
Potential health effects: Long-term systemic effects  
Value: 175 mg/m3

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/m3

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/cm2

End Use: Consumers  
Exposure routes: Skin contact  
Potential health effects: Long-term local effects  
Value: 0,079 mg/cm2

**1-Propanaminium, 3-amino-N-  
(carboxymethyl)-N,N-  
dimethyl-, N-coco acyl derivs.,  
hydroxides, inner salts  
147170-44-3:**

: End Use: Workers  
Exposure routes: Inhalation  
Potential health effects: Long-term systemic effects  
Value: 44 mg/m3

End Use: Workers  
Exposure routes: Skin contact  
Potential health effects: Long-term systemic effects  
Value: 12,5 mg/kg

End Use: Consumers  
Exposure routes: Ingestion  
Potential health effects: Long-term systemic effects  
Value: 7,5 mg/kg

End Use: Consumers  
Exposure routes: Skin contact  
Potential health effects: Long-term systemic effects  
Value: 7,5 mg/kg

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### PNEC

**2,2'-methyliminodiethanol**  
**105-59-9:**

: Fresh water  
Value: 1 mg/l  
  
Marine water  
Value: 0,0045 mg/l  
  
intermittent release  
Value: 1 mg/l  
  
Fresh water sediment  
Value: 0,78 mg/kg  
  
Marine sediment  
Value: 0,0351 mg/kg  
  
Soil  
Value: 0,097 mg/kg  
  
STP  
Value: 10 mg/l

**1-phenoxypropan-2-ol**  
**770-35-4:**

: Fresh water  
Value: 0,1 mg/l  
  
Marine water  
Value: 0,01 mg/l  
  
Fresh water sediment  
Value: 0,38 mg/kg  
  
Marine sediment  
Value: 0,038 mg/kg  
  
Soil  
Value: 0,02 mg/kg  
  
STP  
Value: 10 mg/l  
  
intermittent release  
Value: 1 mg/l

**ethanol**  
**64-17-5:**

: 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



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	intermittent release Value: 2,75 mg/l
<b>Alcohols, C12-14, ethoxylated, sulfates, sodium salts 68891-38-3:</b>	: Fresh water Value: 0,24 mg/l  Marine water Value: 0,024 mg/l  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  Soil Value: 0,946 mg/kg dry weight (d.w.)
<b>1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts 147170-44-3:</b>	: Fresh water Value: 0,0135 mg/l  Marine water Value: 0,00135 mg/l  STP Value: 3000 mg/l  Marine sediment Value: 0,1 mg/kg  Soil Value: 0,8 mg/kg

### 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

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Remarks : 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	: orange
Odour	: characteristic
Odour Threshold	: No data available
pH	: ca. 10,5, 100 % at 20 °C
Melting point/range	: No data available
Boiling point/boiling range	: No data available
Flash point	: Not applicable
Evaporation rate	: No data available
Flammability (solid, gas)	: No data available
Flammability (liquids)	: No data available
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. 1,029 g/cm <sup>3</sup> at 20 °C
Water solubility	: No data available
Solubility in other solvents	: No data available

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Partition coefficient: n-octanol/water	: No data available
Ignition temperature	: No data available
Thermal decomposition	: No data available
Viscosity, dynamic	: similar to water
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.

### 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

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.

#### Product

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

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Skin corrosion/irritation	: According to the classification criteria of the European Union, the product is not considered as being a skin irritant.
Serious eye damage/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:**

#### **2,2'-methyliminodiethanol 105-59-9:**

Acute oral toxicity	: LD50 Rat: 4.680 mg/kg Method: OECD Test Guideline 401
Acute dermal toxicity	: LD50 Rabbit: > 2.000 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: Irritating to eyes. Method: OECD Test Guideline 405
Respiratory or skin sensitisation	: Species: Guinea pig Result: Does not cause skin sensitisation. Method: OECD Test Guideline 406

#### **Decan-1-ol.ethoxylated 26183-52-8:**

Skin corrosion/irritation	: Result: No skin irritation
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Serious eye damage/eye irritation : Result: Eye irritation

### 1-phenoxypropan-2-ol 770-35-4:

Acute oral toxicity : LD50 Rat: > 2.000 mg/kg

Acute inhalation toxicity : LC50 Rat: 5,4 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist

Acute dermal toxicity : LD50 Rabbit: > 2.000 mg/kg

Serious eye damage/eye irritation : Result: Eye irritation

### 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

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

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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

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

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Repeated dose toxicity : NOAEL: 300 mg/kg

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

### 1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts

#### 147170-44-3:

Acute oral toxicity : LD50 Oral : > 8.000 mg/kg  
Method: OECD Test Guideline 401

LD50 Rat: 2.335 mg/kg

Acute dermal toxicity : LD50 Rat: > 2.000 mg/kg

Reproductive toxicity : Species: Rat  
Application Route: Oral  
NOAEL: 300 mg/kg

Teratogenicity : Species: Rat  
Application Route: Oral  
1.000 mg/kg  
100 mg/kg  
Method: see user defined free text

Repeated dose toxicity : Rat, male and female: NOAEL: 300 mg/kg

Application Route: Oral  
Exposure time: 90 d  
Method: see user defined free text

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Components:

#### 2,2'-methyliminodiethanol

#### 105-59-9:

Toxicity to fish : (Leuciscus idus (Golden orfe)): 1.466 mg/l  
Exposure time: 96 h  
Test Type: static test

Toxicity to daphnia and other aquatic invertebrates : (Daphnia magna (Water flea)): 233 mg/l  
Exposure time: 48 h  
Test Type: static test  
Method: Directive 67/548/EEC, Annex V, C.2.

Toxicity to algae : NOEC (Desmodesmus subspicatus (green algae)): 6,25 mg/l  
Exposure time: 72 h

EC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l

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Exposure time: 72 h

Toxicity to bacteria : EC20 (activated sludge): > 1.000 mg/l  
Exposure time: 0,5 h  
Method: OECD Test Guideline 209

### **Decan-1-ol.ethoxylated 26183-52-8:**

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

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

### **1-phenoxypropan-2-ol 770-35-4:**

Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): > 220 - 460 mg/l  
Exposure time: 96 h  
LC50 (Pimephales promelas (fathead minnow)): 280 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

Toxicity to daphnia and other : LC50 (Daphnia magna (Water flea)): 370 mg/l  
aquatic invertebrates Exposure time: 48 h  
Test Type: static test  
Method: OECD Test Guideline 202

Toxicity to algae : EC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l  
Exposure time: 72 h  
Test Type: static test  
EC50 (Desmodesmus subspicatus (green algae)): 74,5 mg/l  
Exposure time: 72 h

Toxicity to bacteria : EC50 (Bacteria): > 1.000 mg/l  
Exposure time: 17 h

### **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 : EC50 (Daphnia magna (Water flea)): 12.340 mg/l  
aquatic invertebrates Exposure time: 48 h



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- 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
- 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

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	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
	EC50 (Scenedesmus subspicatus): 10 - 100 mg/l Method: OECD Test Guideline 201
	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
Toxicity to bacteria	: EC50 (Pseudomonas putida): > 10 g/l Exposure time: 16 h Test Type: Cell multiplication inhibition test Method: DIN 38412 GLP: yes
	EC10 (Pseudomonas putida): > 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: Leuciscus idus (Golden orfe)  NOEC: 0,14 mg/l Exposure time: 28 d Species: Oncorhynchus mykiss (rainbow trout) Method: OECD Test Guideline 204
Toxicity to daphnia and other aquatic invertebrates (Chronic)	: NOEC: > 0,1 - 1 mg/l Exposure time: 21 d

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toxicity) Species: Daphnia magna (Water flea)  
Method: OECD Test Guideline 211

Toxicity to soil dwelling organisms : NOEC: 750 mg/kg  
Exposure time: 96 d  
Species: Eisenia fetida (earthworms)  
Method: OECD Test Guideline 222

### 1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts 147170-44-3:

Toxicity to fish : LC50 (Calamus penna): 1,11 mg/l  
Exposure time: 96 h  
Test Type: semi-static test  
Method: OECD Test Guideline 203

EC10 (Fish): 1,11 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 6,5 mg/l  
Exposure time: 48 h  
Test Type: static test  
Method: OECD Test Guideline 202

EC50 (Daphnia magna (Water flea)): 0,3 mg/l  
Exposure time: 21 d  
Method: OECD Test Guideline 211

Toxicity to algae : EC50 (Desmodesmus subspicatus (green algae)): 1,5 mg/l  
Exposure time: 72 h  
GLP: yes

Toxicity to bacteria : EC0 (Bacteria): > 3.000 mg/l  
GLP:

Toxicity to fish (Chronic toxicity) : NOEC: 0,135 mg/l  
Exposure time: 100 d  
Species: Oncorhynchus mykiss (rainbow trout)  
Method: OECD Test Guideline 210  
GLP: yes

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0,32 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Method: OECD Test Guideline 211  
GLP: yes

## 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:

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### 2,2'-methyliminodiethanol

105-59-9:

Biodegradability : Result: rapidly biodegradable  
Biodegradation: 96 %  
Exposure time: 18 d  
Method: OECD 301 A

### 1-phenoxypropan-2-ol

770-35-4:

Biodegradability : Biodegradation: 72 %  
Exposure time: 28 d  
Method: OECD 301 F

### ethanol

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

### 1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts

147170-44-3:

Biodegradability : Test Type: aerobic  
Concentration: 20 mg/l  
Result: rapidly biodegradable  
Biodegradation: 92 %  
Exposure time: 28 d  
Method: OECD 301 B

Test Type: anaerobic  
Concentration: 102,4 mg/l  
Biodegradation: 80 - 90 %  
Exposure time: 60 d  
Method: see user defined free text  
GLP: yes

Chemical Oxygen Demand (COD) : 1.000.000 mg/l

## 12.3 Bioaccumulative potential

### Components:

1-phenoxypropan-2-ol

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### 770-35-4:

Bioaccumulation

: Remarks: Due to the distribution coefficient n-octanol/water, accumulation in organisms is not expected.

### 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.

## 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

## 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.  
In accordance with local and national regulations.

Contaminated packaging

: Only give completely emptied packaging to special waste disposer.  
  
Empty remaining contents.  
Dispose of as unused product.

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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

#### 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 : See Annex XVII to Regulation (EC) no

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market and use of certain dangerous substances, preparations  
and articles (Annex XVII)

1907/2006 for Conditions of restriction

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

: Total dust: Not applicable  
: Inorganic substances in powdered form: Not applicable  
: Inorganic substances in vapour or gaseous form: : portionClass 3:  
0,27 %  
: Organic Substances: : portionClass 1: < 0,01 %  
: Carcinogenic substances: : portionClass 2: < 0,01 %  
: Mutagenic: : < 0,01 %  
: Toxic to reproduction: Not applicable

Volatile organic compounds  
(VOC) content

: Directive 2010/75/EU of 24 November 2010 on industrial emissions  
(integrated pollution prevention and control)  
Update: Percent volatile: 1,95 %  
103,08 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: 1,95 %  
20,07 g/l  
VOC content valid only for coating materials used on wood surfaces

according to Detergents  
Regulation EC 648/2004

: <5% Anionic surfactants, Amphoteric surfactants, Non-ionic  
surfactants, Perfumes

GISBAU (D)

: GU 80

### 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

Calculation method

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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; KECl - 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 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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