

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)



Trade name : Corrosion Protection 200  
for water-based Systems  
Revision date : 16.06.2023  
Print date : 20.06.2023

Version (Revision) : 4.2.0 (4.1.0)

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

### 1.1 Product identifier

Corrosion Protection 200  
for water-based Systems

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

**Relevant identified uses**

PC 0.30 - Corrosion inhibitor

### 1.3 Details of the supplier of the safety data sheet

**Supplier**

Bio-Circle Surface Technology GmbH

**Street :** Berensweg 200

**Postal code/City :** 33334 Gütersloh

**Telephone :** +49 5241 9443 0

**Telefax :** +49 5241 9443 44

**Information contact :** labor@bio-circle.de

### 1.4 Emergency telephone number

+49 5241 9443 51 during normal office hours  
(Monday to Thursday from 8 am to 4 pm and Friday from 8 am to 3 pm)

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

**Classification according to Regulation (EC) No 1272/2008 [CLP]**

Eye Irrit. 2 ; H319 - Serious eye damage/eye irritation : Category 2 ; Causes serious eye irritation.

### 2.2 Label elements

**Labelling according to Regulation (EC) No. 1272/2008 [CLP]**

**Hazard pictograms**



Exclamation mark (GHS07)

**Signal word**

Warning

**Hazard statements**

H319 Causes serious eye irritation.

**Precautionary statements**

P280 Wear protective gloves/protective clothing/eye protection/face protection.

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.

### 2.3 Other hazards

None

## SECTION 3: Composition/information on ingredients

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## 3.2 Mixtures

### Hazardous ingredients

SODIUM PETROLEUM SULFONIC ACIDS ; REACH No. : 01-2119527859-22-XXXX ; EC No. : 271-781-5; CAS No. : 68608-26-4

Weight fraction :  $\geq 10 - < 25$  %  
Classification 1272/2008 [CLP] : Eye Irrit. 2 ; H319

TALGALKYL POLYGLYKOLETHER ; EC No. : 615-218-7; CAS No. : 70955-07-6

Weight fraction :  $\geq 10 - < 25$  %  
Classification 1272/2008 [CLP] : Aquatic Chronic 3 ; H412

POTASSIUM HYDROXIDE ; REACH No. : 01-2119487136-33-XXXX ; EC No. : 215-181-3; CAS No. : 1310-58-3

Weight fraction :  $\geq 5 - < 10$  %  
Classification 1272/2008 [CLP] : Met. Corr. 1 ; H290 Skin Corr. 1A ; H314 Eye Dam. 1 ; H318 Acute Tox. 4 ; H302  
Specific Conc. Limits : Skin Corr. 1A ; H314: C  $\geq 5$  % • Eye Dam. 1 ; H318: C  $\geq 2$  % • Skin Corr. 1B ; H314:  
C  $\geq 2$  % • Skin Corr. 1C ; H314: C  $\geq 2$  % • Eye Irrit. 2 ; H319: C  $\geq 0,5$  % • Skin Irrit.  
2 ; H315: C  $\geq 0,5$  %

2-AMINOETHANOL ; REACH No. : 01-2119486455-28-XXXX ; EC No. : 205-483-3; CAS No. : 141-43-5

Weight fraction :  $\geq 5 - < 10$  %  
Classification 1272/2008 [CLP] : Skin Corr. 1B ; H314 Eye Dam. 1 ; H318 Acute Tox. 4 ; H302 Acute Tox. 4 ; H312  
Acute Tox. 4 ; H332 STOT SE 3 ; H335 Aquatic Chronic 3 ; H412  
Specific Conc. Limits : STOT SE 3 ; H335: C  $\geq 5$  %

PROPANE-1,2-DIOL, PROPOXYLATED ; REACH No. : 01-2119457556-29-XXXX ; EC No. : 500-039-8; CAS No. : 25322-69-4

Weight fraction :  $\geq 1 - < 5$  %  
Classification 1272/2008 [CLP] : Acute Tox. 4 ; H302

### Additional information

For full text of Hazard- and EU Hazard-statements: see SECTION 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General information

Change contaminated, saturated clothing. Do not put any product-impregnated cleaning rags into your trouser pockets.

#### Following inhalation

Remove casualty to fresh air and keep warm and at rest. In case of respiratory tract irritation, consult a physician.

#### In case of skin contact

After contact with skin, wash immediately with plenty of water and soap. In case of skin irritation, consult a physician.

#### After eye contact

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

#### Following ingestion

If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Do NOT induce vomiting.

#### Notes for the doctor

Observe risk of aspiration if vomiting occurs. In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

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

Has degreasing effect on the skin. Frequently or prolonged contact with skin may cause dermal irritation. Causes serious eye irritation.

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

First Aid, decontamination, treatment of symptoms.

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## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing media

alcohol resistant foam Carbon dioxide (CO<sub>2</sub>) Extinguishing powder Sand

#### Unsuitable extinguishing media

Strong water jet

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

#### Hazardous combustion products

In case of fire may be liberated: carbon black. Carbon monoxide Sulphur dioxide (SO<sub>2</sub>) Nitrogen oxides (NO<sub>x</sub>)

### 5.3 Advice for firefighters

#### Special protective equipment for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing. Do not inhale explosion and combustion gases.

### 5.4 Additional information

Use water spray jet to protect personnel and to cool endangered containers. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire transmission possible. Burning produces heavy smoke. Move undamaged containers from immediate hazard area if it can be done safely.

## SECTION 6: Accidental release measures

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

Use personal protection equipment. See protective measures under point 7 and 8. Provide adequate ventilation. Special danger of slipping by leaking/spilling product.

### 6.2 Environmental precautions

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Prevent spread over a wide area (e.g. by containment or oil barriers).

### 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

All work processes must always be designed so that the following is excluded: Inhalation of vapours or spray/mists  
Provide adequate ventilation as well as local exhaust at critical locations. P280 - Wear protective gloves/protective clothing and eye/face protection.

#### Protective measures

##### Measures to prevent fire

No special fire protection measures are necessary.

### 7.2 Conditions for safe storage, including any incompatibilities

#### Packaging materials

Only use containers specifically approved for the substance/product.

#### Hints on joint storage

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Do not store together with Oxidizing agent

Storage class (TRGS 510) : 10

## Further information on storage conditions

Protect against : Frost

### 7.3 Specific end use(s)

Observe technical data sheet. Observe instructions for use.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational exposure limit values

2-AMINOETHANOL ; CAS No. : 141-43-5

Limit value type (country of origin) : TRGS 900 ( D )  
Limit value : 0,2 ppm / 0,5 mg/m<sup>3</sup>  
Peak limitation : 1(l)  
Remark : H, Sh, Y  
Version : 23.06.2022

Limit value type (country of origin) : STEL ( EC )  
Limit value : 3 ppm / 7,6 mg/m<sup>3</sup>  
Remark : Skin  
Version : 20.06.2019

Limit value type (country of origin) : TWA ( EC )  
Limit value : 1 ppm / 2,5 mg/m<sup>3</sup>  
Remark : Skin  
Version : 20.06.2019

#### DNEL-/PNEC-values

##### DNEL/DMEL

SODIUM PETROLEUM SULFONIC ACIDS ; CAS No. : 68608-26-4

Limit value type : DNEL worker (systemic)  
Exposure route : Inhalation  
Exposure frequency : Long-term  
Limit value : 0,66 mg/m<sup>3</sup>  
Limit value type : DNEL worker (systemic)  
Exposure route : Dermal  
Exposure frequency : Long-term  
Limit value : 3,33 mg/kg

POTASSIUM HYDROXIDE ; CAS No. : 1310-58-3

Limit value type : DNEL worker (local)  
Exposure route : Inhalation  
Exposure frequency : Long-term  
Limit value : 1 mg/m<sup>3</sup>

2-AMINOETHANOL ; CAS No. : 141-43-5

Limit value type : DNEL worker (local)  
Exposure route : Inhalation  
Exposure frequency : Long-term  
Limit value : 3,3 mg/m<sup>3</sup>  
Limit value type : DNEL worker (systemic)  
Exposure route : Dermal  
Exposure frequency : Long-term  
Limit value : 1 mg/kg

POTASSIUM HYDROXIDE ; CAS No. : 1310-58-3

Limit value type : DNEL worker (systemic)  
Exposure route : Inhalation

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Exposure frequency : Long-term  
Limit value : 1 mg/m<sup>3</sup>  
PROPANE-1,2-DIOL, PROPOXYLATED ; CAS No. : 25322-69-4  
Limit value type : DNEL worker (local)  
Exposure route : Inhalation  
Exposure frequency : Long-term  
Limit value : 10 mg/m<sup>3</sup>  
Limit value type : DNEL worker (systemic)  
Exposure route : Inhalation  
Exposure frequency : Long-term  
Limit value : 98 mg/m<sup>3</sup>  
Limit value type : DNEL worker (systemic)  
Exposure route : Dermal  
Exposure frequency : Long-term  
Limit value : 13,9 mg/kg

## 8.2 Exposure controls

Provide adequate ventilation. If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means.

### Personal protection equipment

#### Eye/face protection



Wear suitable safety goggles in case of splash.

#### Suitable eye protection

EN 166.

#### Skin protection

##### Hand protection



Wear protective gloves in case of longer lasting skin contact.

**Suitable gloves type :** EN 374.

**Suitable material :** NBR (Nitrile rubber) , FKM (fluoro rubber)

**Remark :** 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.

### General information

When using do not eat, drink, smoke, sniff. Avoid contact with skin, eyes and clothes. Remove contaminated, saturated clothing immediately.

## 8.3 Additional information

No tests have been performed. Selection made for preparations according to the best available knowledge and information on ingredients. In the case of preparations the resistance of glove materials cannot be calculated in advance so it has to be tested before use.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### Appearance

**Physical state :** Liquid

**Colour :** light brown

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## Odour

characteristic

## Safety characteristics

Freezing point :	( 1013 hPa )			not determined
Initial boiling point and boiling range :	( 1013 hPa )	>=	100	°C
Flash point :		>	100	°C
Auto-ignition temperature :				none
Flammability :				non-flammable
Vapour pressure :	( 50 °C )			No data available
Density :	( 20 °C )	approx.	1,09	g/cm <sup>3</sup>
Water solubility :	( 20 °C )			completely miscible
pH :	( 20 °C / 5 Vol-% )		9,5	in aqueous solution
Cinematic viscosity :	( 40 °C )	approx.	105	mm <sup>2</sup> /s
Relative vapour density :	( 20 °C )			not determined
Maximum VOC content (EC) :			0	Weight-%
Maximum VOC content (Switzerland) :			0	Weight-%
Taxable VOC content (Switzerland) :			0	Weight-%

## 9.2 Other information

None

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

This material is considered to be non-reactive under normal use conditions.

### 10.2 Chemical stability

No hazardous reaction when handled and stored according to provisions.

### 10.3 Possibility of hazardous reactions

No information available.

### 10.4 Conditions to avoid

No information available.

### 10.5 Incompatible materials

Strong acid . Strong alkali . Reactions with strong oxidants are expected. Peroxides can be produced.

### 10.6 Hazardous decomposition products

Decomposition products in case of fire: see section 5.

## SECTION 11: Toxicological information

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

#### Acute toxicity

##### Acute oral toxicity

Parameter :	LD50 ( SODIUM PETROLEUM SULFONIC ACIDS ; CAS No. : 68608-26-4 )
Exposure route :	Oral
Species :	Rat
Effective dose :	> 5000 mg/kg
Method :	OECD 401
Parameter :	LD50 ( TALGALKYL POLYGLYKOLETHER ; CAS No. : 70955-07-6 )
Exposure route :	Oral
Species :	Rat
Effective dose :	> 2000 mg/kg
Method :	OECD 401

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Parameter : LD50 ( POTASSIUM HYDROXIDE ; CAS No. : 1310-58-3 )  
Exposure route : Oral  
Species : Rat  
Effective dose : 365 mg/kg  
Method : OECD 425  
Parameter : LD50 ( 2-AMINOETHANOL ; CAS No. : 141-43-5 )  
Exposure route : Oral  
Species : Rat  
Effective dose : 1515 mg/kg  
Method : OECD 401  
Parameter : LD50 ( PROPANE-1,2-DIOL, PROPOXYLATED ; CAS No. : 25322-69-4 )  
Exposure route : Oral  
Species : Rat  
Effective dose : 1000 - 2000 mg/kg  
Method : OECD 401

### Acute dermal toxicity

Parameter : LD50 ( SODIUM PETROLEUM SULFONIC ACIDS ; CAS No. : 68608-26-4 )  
Exposure route : Dermal  
Species : Rabbit  
Effective dose : > 5000 mg/kg  
Method : OECD 402  
Parameter : LD50 ( 2-AMINOETHANOL ; CAS No. : 141-43-5 )  
Exposure route : Dermal  
Species : Rabbit  
Effective dose : 2504 - 2881 mg/kg  
Method : OECD 402  
Parameter : LD50 ( PROPANE-1,2-DIOL, PROPOXYLATED ; CAS No. : 25322-69-4 )  
Exposure route : Dermal  
Species : Rabbit  
Effective dose : > 10000 mg/kg  
Method : OECD 402

### Acute inhalation toxicity

Parameter : LC50 ( SODIUM PETROLEUM SULFONIC ACIDS ; CAS No. : 68608-26-4 )  
Exposure route : Inhalation  
Species : Rat  
Effective dose : > 1,9 mg/l  
Exposure time : 4 h  
Method : OECD 403  
Parameter : LC50 ( 2-AMINOETHANOL ; CAS No. : 141-43-5 )  
Exposure route : Inhalation  
Species : Rat  
Effective dose : > 1,3 mg/l  
Exposure time : 6 h

### Corrosion

#### Skin corrosion/irritation

No further relevant information available.

#### Serious eye damage/eye irritation

Causes serious eye irritation.

### Respiratory or skin sensitisation

#### Skin sensitisation

No further relevant information available.

#### Sensitisation to the respiratory tract

No further relevant information available.

### CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

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## Carcinogenicity

No further relevant information available.

## Germ cell mutagenicity

No further relevant information available.

## Reproductive toxicity

No further relevant information available.

## STOT-single exposure

No further relevant information available.

## STOT-repeated exposure

No further relevant information available.

## Aspiration hazard

No further relevant information available.

## 11.2 Information on other hazards

### Endocrine disrupting properties

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

### Toxicokinetics, metabolism and distribution

There are no data available on the preparation/mixture itself.

### Other adverse effects

Frequently or prolonged contact with skin may cause dermal irritation. Has degreasing effect on the skin.

### Additional information

Preparation not tested. The statement is derived from the properties of the single components.

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Aquatic toxicity

##### Acute (short-term) fish toxicity

Parameter :	LL50 ( SODIUM PETROLEUM SULFONIC ACIDS ; CAS No. : 68608-26-4 )
Species :	Pimephales promelas (fathead minnow)
Evaluation parameter :	Acute (short-term) fish toxicity
Effective dose :	> 1000 mg/l
Exposure time :	96 h
Method :	OECD 203
Parameter :	LC50 ( TALGALKYL POLYGLYKOLETHER ; CAS No. : 70955-07-6 )
Species :	Danio rerio (zebrafish)
Evaluation parameter :	Acute (short-term) fish toxicity
Effective dose :	> 100 mg/l
Exposure time :	96 h
Method :	Regulation (EC) No. 440/2008, Annex C.1
Parameter :	LC50 ( POTASSIUM HYDROXIDE ; CAS No. : 1310-58-3 )
Species :	Fish
Evaluation parameter :	Acute (short-term) fish toxicity
Effective dose :	80 mg/l
Exposure time :	96 h
Parameter :	LC50 ( 2-AMINOETHANOL ; CAS No. : 141-43-5 )
Species :	Cyprinus carpio (Common Carp)
Evaluation parameter :	Acute (short-term) fish toxicity
Effective dose :	349 mg/l
Exposure time :	96 h
Parameter :	LC0 ( 2-AMINOETHANOL ; CAS No. : 141-43-5 )



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Species : Cyprinus carpio (Common Carp)  
Evaluation parameter : Acute (short-term) fish toxicity  
Effective dose : 105 mg/l  
Exposure time : 96 h  
Parameter : LC50 ( PROPANE-1,2-DIOL, PROPOXYLATED ; CAS No. : 25322-69-4 )  
Species : Pimephales promelas (fathead minnow)  
Evaluation parameter : Acute (short-term) fish toxicity  
Effective dose : > 100 mg/l  
Exposure time : 96 h  
Method : OECD 203

### Chronic (long-term) fish toxicity

Parameter : NOEC ( 2-AMINOETHANOL ; CAS No. : 141-43-5 )  
Species : Fish  
Evaluation parameter : Chronic (long-term) fish toxicity  
Effective dose : > 100 mg/l  
Exposure time : 14 D  
Method : OECD 204  
Parameter : NOEC ( 2-AMINOETHANOL ; CAS No. : 141-43-5 )  
Species : Oryzias latipes (Ricefish)  
Evaluation parameter : Chronic (long-term) fish toxicity  
Effective dose : 1,24 mg/l  
Exposure time : 41 D  
Method : OECD 210  
Parameter : LOEC ( 2-AMINOETHANOL ; CAS No. : 141-43-5 )  
Species : Oryzias latipes (Ricefish)  
Evaluation parameter : Chronic (long-term) fish toxicity  
Effective dose : 3,55 mg/l  
Exposure time : 41 D  
Method : OECD 210

### Acute (short-term) toxicity to crustacea

Parameter : EC50 ( SODIUM PETROLEUM SULFONIC ACIDS ; CAS No. : 68608-26-4 )  
Species : Daphnia magna (Big water flea)  
Evaluation parameter : Acute (short-term) toxicity to crustacea  
Effective dose : > 1000 mg/l  
Exposure time : 48 h  
Parameter : EC50 ( 2-AMINOETHANOL ; CAS No. : 141-43-5 )  
Species : Daphnia magna (Big water flea)  
Evaluation parameter : Acute (short-term) toxicity to crustacea  
Effective dose : 27,04 mg/l  
Exposure time : 48 h  
Method : OECD 202  
Parameter : EC50 ( PROPANE-1,2-DIOL, PROPOXYLATED ; CAS No. : 25322-69-4 )  
Species : Daphnia magna (Big water flea)  
Evaluation parameter : Acute (short-term) daphnia toxicity  
Effective dose : 105,8 mg/l  
Exposure time : 48 h  
Method : OECD 202

### Chronic (long-term) toxicity to aquatic invertebrate

Parameter : NOEC ( 2-AMINOETHANOL ; CAS No. : 141-43-5 )  
Species : Daphnia magna (Big water flea)  
Evaluation parameter : Chronic (long-term) toxicity to aquatic invertebrate  
Effective dose : 0,85 mg/l  
Exposure time : 21 D  
Method : OECD 211  
Parameter : EL10 ( 2-AMINOETHANOL ; CAS No. : 141-43-5 )

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Species : Daphnia magna (Big water flea)  
Evaluation parameter : Chronic (long-term) toxicity to aquatic invertebrate  
Effective dose : 2,5 mg/l  
Exposure time : 21 D  
Method : OECD 211  
Parameter : NOEC ( PROPANE-1,2-DIOL, PROPOXYLATED ; CAS No. : 25322-69-4 )  
Species : Daphnia magna (Big water flea)  
Evaluation parameter : Chronic (long-term) daphnia toxicity  
Effective dose : >= 10 mg/l  
Exposure time : 21 D  
Method : OECD 211  
Parameter : LOEC ( PROPANE-1,2-DIOL, PROPOXYLATED ; CAS No. : 25322-69-4 )  
Species : Daphnia magna (Big water flea)  
Evaluation parameter : Chronic (long-term) daphnia toxicity  
Effective dose : > 10 mg/l  
Exposure time : 21 D  
Method : OECD 211

#### Acute (short-term) toxicity to algae and cyanobacteria

Parameter : EC50 ( SODIUM PETROLEUM SULFONIC ACIDS ; CAS No. : 68608-26-4 )  
Species : Pseudokirchneriella subcapitata  
Evaluation parameter : Inhibition of growth rate  
Effective dose : > 1000 mg/l  
Exposure time : 72 h  
Parameter : EC50 ( 2-AMINOETHANOL ; CAS No. : 141-43-5 )  
Species : Scenedesmus subspicatus  
Evaluation parameter : Acute (short-term) toxicity to algae and cyanobacteria  
Effective dose : 22 mg/l  
Exposure time : 72 h  
Parameter : EC50 ( PROPANE-1,2-DIOL, PROPOXYLATED ; CAS No. : 25322-69-4 )  
Species : Desmodesmus subspicatus  
Evaluation parameter : Acute (short-term) algae toxicity  
Effective dose : > 100 mg/l  
Exposure time : 72 h  
Method : OECD 201

#### Chronic (long-term) toxicity to aquatic algae and cyanobacteria

Parameter : NOEC ( SODIUM PETROLEUM SULFONIC ACIDS ; CAS No. : 68608-26-4 )  
Species : Pseudokirchneriella subcapitata  
Evaluation parameter : Inhibition of growth rate  
Effective dose : 1000 mg/l  
Exposure time : 72 h  
Parameter : NOEC ( 2-AMINOETHANOL ; CAS No. : 141-43-5 )  
Species : Scenedesmus subspicatus  
Evaluation parameter : Acute (short-term) toxicity to algae and cyanobacteria  
Effective dose : 4 mg/l  
Exposure time : 72 h  
Parameter : NOEC ( PROPANE-1,2-DIOL, PROPOXYLATED ; CAS No. : 25322-69-4 )  
Species : Desmodesmus subspicatus  
Evaluation parameter : Acute (short-term) algae toxicity  
Effective dose : 100 mg/l  
Exposure time : 72 h  
Method : OECD 201

#### Toxicity to microorganisms

Parameter : EC50 ( SODIUM PETROLEUM SULFONIC ACIDS ; CAS No. : 68608-26-4 )  
Species : Bacteria toxicity  
Effective dose : 3200 - 5000 mg/l

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Exposure time : 8 h  
Parameter : EC50 ( TALGALKYL POLYGLYKOLETHER ; CAS No. : 70955-07-6 )  
Species : Bacteria toxicity  
Effective dose : > 100 mg/l  
Exposure time : 3 h  
Method : OECD 209  
Parameter : EC50 ( 2-AMINOETHANOL ; CAS No. : 141-43-5 )  
Species : Pseudomonas putida  
Evaluation parameter : Toxicity to microorganisms  
Effective dose : 110 mg/l  
Exposure time : 17 h  
Method : DIN 38412 / part 8  
Parameter : EC10 ( 2-AMINOETHANOL ; CAS No. : 141-43-5 )  
Species : Toxicity to microorganisms  
Effective dose : > 1000 mg/l  
Exposure time : 30 min  
Method : OECD 209  
Parameter : EC10 ( 2-AMINOETHANOL ; CAS No. : 141-43-5 )  
Species : Pseudomonas putida  
Evaluation parameter : Toxicity to microorganisms  
Effective dose : 90 mg/l  
Exposure time : 17 h  
Parameter : EC50 ( PROPANE-1,2-DIOL, PROPOXYLATED ; CAS No. : 25322-69-4 )  
Species : Bacteria toxicity  
Effective dose : > 1000 mg/l  
Exposure time : 3 h

## 12.2 Persistence and degradability

The surfactant contained in this mixture complies with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents. Do not allow to enter into surface water or drains.

### Biodegradation

Parameter : Biodegradation ( SODIUM PETROLEUM SULFONIC ACIDS ; CAS No. : 68608-26-4 )  
Inoculum : Biodegradation  
Evaluation parameter : Aerobic  
Degradation rate : 8,6 %  
Test duration : 28 D  
Evaluation : Not readily biodegradable (according to OECD criteria)  
Method : OECD 301F  
Parameter : CO2 formation (% of the theoretical value) ( 2-AMINOETHANOL ; CAS No. : 141-43-5 )  
Inoculum : Biodegradation  
Evaluation parameter : Aerobic  
Degradation rate : > 80 %  
Test duration : 31 D  
Evaluation : Readily biodegradable (according to OECD criteria).  
Method : OECD 301B  
Parameter : Biodegradation ( PROPANE-1,2-DIOL, PROPOXYLATED ; CAS No. : 25322-69-4 )  
Inoculum : Degree of elimination  
Degradation rate : 87 %  
Test duration : 28 D  
Evaluation : Readily biodegradable (according to OECD criteria).

## 12.3 Bioaccumulative potential

Parameter : Bioconcentration factor (BCF) ( SODIUM PETROLEUM SULFONIC ACIDS ; CAS No. : 68608-26-4 )  
Value : 70,79  
Parameter : Log KOW ( SODIUM PETROLEUM SULFONIC ACIDS ; CAS No. : 68608-26-4 )