

# Safety Data Sheet

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



Trade name : Defoamer silicone-free  
Revision date : 23.10.2018  
Print date : 15.03.2019

Version (Revision) : 4.0.0 (3.0.0)

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

### 1.1 Product identifier

Defoamer silicone-free

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

Additive

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

#### Supplier (manufacturer/importer/only representative/downstream user/distributor)

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

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

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

Acute Tox. 4 ; H302 - Acute toxicity (oral) : Category 4 ; Harmful if swallowed.

### 2.2 Label elements

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

Hazard pictograms



Exclamation mark (GHS07)

#### Signal word

Warning

#### Hazard statements

H302 Harmful if swallowed.

#### Precautionary statements

P264 Wash ... thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor/...

P330 Rinse mouth.

### 2.3 Other hazards

Special danger of slipping by leaking/spilling product.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

#### Hazardous ingredients

C12-C14 TERT-ALKYLAMINES, ETHOXYLATED, PROPOXYLATED ; CAS No. : 68603-58-7

Weight fraction :  $\geq 50$  - < 100 %

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Classification 1272/2008 [CLP] : Acute Tox. 4 ; H302

#### Additional information

Full text of H- and EUH-phrases: see section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General information

When in doubt or if symptoms are observed, get medical advice.

#### Following inhalation

Remove casualty to fresh air and keep warm and at rest.

#### In case of skin contact

P353 - Rinse skin with water [or shower].

#### After eye contact

P351 - Rinse cautiously with water for several minutes. P338 - Remove contact lenses, if present and easy to do. Continue rinsing. Consult an ophthalmologist.

#### After ingestion

Call a physician immediately. Do NOT induce vomiting.

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

No information available.

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

None

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing media

Water mist Carbon dioxide (CO<sub>2</sub>) Extinguishing powder Foam

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

#### Hazardous combustion products

In case of fire may be liberated: Nitrogen oxides (NO<sub>x</sub>) Carbon monoxide Carbon dioxide (CO<sub>2</sub>)  
The product itself does not burn. After drying the residue is: Combustible

### 5.3 Advice for firefighters

P380 - Evacuate area.

#### Special protective equipment for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

### 5.4 Additional information

The product itself does not burn. Adapt extinguishing measures to suit the environment.

## SECTION 6: Accidental release measures

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

Make sure spills can be contained, e.g. in sump pallets or kerbed areas. Take the precautions customary when handling chemicals. Special danger of slipping by leaking/spilling product.

### 6.2 Environmental precautions

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

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

Clear spills immediately. Take up with a liquid absorbing material and proceed according to the waste disposal regulations.

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## 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

Avoid contact with skin, eyes and clothes. Normal precautions taken when handling chemicals should be observed.  
P264 - Wash hands thoroughly after handling. Keep container tightly closed.

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

#### Technical measures and storage conditions

Keep/Store only in original container. Protect against Frost

#### Hints on joint storage

Storage class (TRGS 510) : 12

### 7.3 Specific end use(s)

Observe technical data sheet. Observe instructions for use.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

None

### 8.2 Exposure controls

#### 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)

Breakthrough time (maximum wearing time) : 480 min.

Thickness of the glove material : 0.4 mm

Remark : The exact break trough time has to be requested from the protective glove manufacturer and limits has to be ensured.

#### General health and safety measures

Do not put any product-impregnated cleaning rags into your trouser pockets. 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.

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## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

**Appearance :** liquid

**Colour :** yellow

**Odour :** characteristic

#### Safety relevant basis data

<b>Solidifying point :</b>	( 1013 hPa )	approx.	-9 °C	
<b>Melting point/melting range :</b>	( 1013 hPa )		not applicable	
<b>Initial boiling point and boiling range :</b>	( 1013 hPa )	approx.	112 °C	
<b>Decomposition temperature :</b>			No data available	
<b>Flash point :</b>			not relevant	
<b>Ignition temperature :</b>			No data available	
<b>Lower explosion limit :</b>			not relevant	
<b>Upper explosion limit :</b>			not relevant	
<b>Vapour pressure :</b>	( 50 °C )	approx.	20,3 hPa	
<b>Density :</b>	( 20 °C )	approx.	1,04 g/cm <sup>3</sup>	
<b>Solvent separation test :</b>	( 20 °C )		not applicable	
<b>pH :</b>		approx.	10,6	
<b>log P O/W :</b>			No data available	
<b>Flow time :</b>	( 20 °C )		not applicable	DIN-cup 4 mm
<b>Cinematic viscosity :</b>	( 40 °C )	approx.	534 mm <sup>2</sup> /s	
<b>Odour threshold :</b>			No data available	
<b>Relative vapour density :</b>	( 20 °C )	approx.	0,6 (air = 1)	
<b>Maximum VOC content (EC) :</b>			0 Wt %	
<b>Maximum VOC content (Switzerland) :</b>			0 Wt %	
<b>Explosive properties :</b>			No data available.	

### 9.2 Other information

None

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No information available.

### 10.2 Chemical stability

No information available.

### 10.3 Possibility of hazardous reactions

No information available.

### 10.4 Conditions to avoid

No information available.

### 10.5 Incompatible materials

Alkali (lye), concentrated. Acid, concentrated. Oxidising agent, strong.

### 10.6 Hazardous decomposition products

No information available.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute effects

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## Acute oral toxicity

Parameter : LD50 ( C12-C14 TERT-ALKYLAMINES, ETHOXYLATED, PROPOXYLATED ; CAS No. : 68603-58-7 )  
Exposure route : Oral  
Species : Rat  
Effective dose : > 1270 mg/kg

## Acute dermal toxicity

Parameter : LD50 ( C12-C14 TERT-ALKYLAMINES, ETHOXYLATED, PROPOXYLATED ; CAS No. : 68603-58-7 )  
Exposure route : Dermal  
Species : Rabbit  
Effective dose : > 16000 mg/kg

## 11.2 Toxicokinetics, metabolism and distribution

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

## 11.3 Other adverse effects

None known.

## 11.4 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 : LC50 ( C12-C14 TERT-ALKYLAMINES, ETHOXYLATED, PROPOXYLATED ; CAS No. : 68603-58-7 )  
Species : Oncorhynchus mykiss (Rainbow trout)  
Evaluation parameter : Acute (short-term) fish toxicity  
Effective dose : 186 mg/l  
Exposure time : 96 h

Parameter : LC50 ( C12-C14 TERT-ALKYLAMINES, ETHOXYLATED, PROPOXYLATED ; CAS No. : 68603-58-7 )  
Species : Pimephales promelas (fathead minnow)  
Evaluation parameter : Acute (short-term) fish toxicity  
Effective dose : 412 mg/l  
Exposure time : 96 h

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

Parameter : EC50 ( C12-C14 TERT-ALKYLAMINES, ETHOXYLATED, PROPOXYLATED ; CAS No. : 68603-58-7 )  
Species : Daphnia magna (Big water flea)  
Evaluation parameter : Acute (short-term) daphnia toxicity  
Effective dose : 660 - 1056 mg/l  
Exposure time : 48 h

##### Bacteria toxicity

Parameter : EC50 ( C12-C14 TERT-ALKYLAMINES, ETHOXYLATED, PROPOXYLATED ; CAS No. : 68603-58-7 )  
Species : Bacteria toxicity  
Effective dose : > 5000 mg/l  
Exposure time : 16 h

### 12.2 Persistence and degradability

#### Biodegradation

Parameter : Biodegradation ( C12-C14 TERT-ALKYLAMINES, ETHOXYLATED, PROPOXYLATED ; CAS No. : 68603-58-7 )  
Inoculum : Biodegradation

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Effective dose : < 60 %  
Exposure time : 28 d  
Method : OECD 301F

## 12.3 Bioaccumulative potential

No information available.

## 12.4 Mobility in soil

No information available.

## 12.5 Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

## 12.6 Other adverse effects

No information available.

## 12.7 Additional ecotoxicological information

None

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### Product/Packaging disposal

Waste codes/waste designations according to EWC/AVV

##### Waste code product

07 06 01\* - aqueous washing liquids and mother liquors  
20 01 29\* - detergents containing dangerous substances.

##### Waste code packaging

15 01 02 - plastic packaging.

## SECTION 14: Transport information

### 14.1 UN number

No dangerous good in sense of these transport regulations.

### 14.2 UN proper shipping name

No dangerous good in sense of these transport regulations.

### 14.3 Transport hazard class(es)

No dangerous good in sense of these transport regulations.

### 14.4 Packing group

No dangerous good in sense of these transport regulations.

### 14.5 Environmental hazards

No dangerous good in sense of these transport regulations.

### 14.6 Special precautions for user

None

## SECTION 15: Regulatory information

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

#### National regulations

##### Water hazard class (WGK)

Class : 1 (Slightly hazardous to water) Classification according to AwSV

##### Other regulations, restrictions and prohibition regulations

##### Betriebssicherheitsverordnung (BetrSichV)

No flammable liquid according to BetrSichV.

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## 15.2 Chemical safety assessment

For this substance a chemical safety assessment has not been carried out.

## SECTION 16: Other information

### 16.1 Indication of changes

02. Label elements · 03. Hazardous ingredients · 15. Water hazard class (WGK)

### 16.2 Abbreviations and acronyms

None

### 16.3 Key literature references and sources for data

DGUV: GESTIS-Stoffdatenbank  
ECHA: Classification And Labelling Inventory  
ECHA: Pre-registered Substances  
ECHA: Registered Substances  
EC\_Safety Data Sheet of Suppliers  
ESIS: European Chemical Substances Information System  
GDL: Gefahrstoffdatenbank der Länder  
UBA Rigoletto: Wassergefährdende Stoffe  
Regulation (EC) No. 1907/2006 of the European Parliament and of the Council  
Regulation (EC) No. 1272/2008 of the European Parliament and of the Council

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

No information available.

### 16.5 Relevant H- and EUH-phrases (Number and full text)

H302 Harmful if swallowed.

### 16.6 Training advice

None

### 16.7 Additional information

None

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.