

according to 1907/2006/EC, Article 31

Issue Date: 22/05/2019	Version-no.: 1.00	Revised on: 22/05/2019
Trade Name: Biotensidon S-Cleaner – SC-2	2 <mark>0</mark>	
SECTION 1: Identification of the subs	tance/mixture and of the company/un	dertaking
<u>1.1 Product identifier</u>		
Trade name:	Biotensidon S-Cleaner Concentrate	
1.2 Relevant identified uses of the substar	ace or mixture and uses advised against	
Use of the substance/mixture:	Ecological detergent for all kinds of signs	
Uses advised against:	No further relevant information available.	
<b>1.3 Details of the supplier of the safety da</b>	ta sheet	
Supplier:	BIOTENSIDON GmbH	
	Greschbachstrasse 2-4	
	76229 Karlsruhe   Germany	
	Tel: +49 721 909976 11	
	Fax: +49 721 909976 19	
	Email: info@biotensidon.de	
1.4 Emergency telephone number		
	+49 30 19 24 0, Poison Center Berlin	
	+49 228 287 3211, Poison Information Cer	nter Bonn

# **SECTION 2: Hazards identification**

# 2.1 Classification of the substance or mixture

**Classification according to the Regulation (EC) No. 1272/2008** Skin Sens. 1 H317: May cause an allergic skin reaction.

#### 2.2 Label elements

Labelling according to the Regulation (EC) No. 1272/2008 The product is classified and labelled according to CLP-Regulation. hazard pictogram:



GHS07

### Signal word: Caution

Hazard-determining components of labelling: Cocamidopropyl-Betaine, orange terpene, orange oil Hazard statements:

H317 May cause an allergic skin reaction.

### **Precautionary Statements:**

,	
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective gloves.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P362+P364	Take off contaminated clothing and wash before reuse.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P321	Specific treatment (see on this label).
P501	Dispose of contents/container in accordance with local / regional / national / international
	regulations.



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### 2.3 Other hazards

Results of PBT and vPvB assessment PBT: Not determined vPvB: Not determined

# **SECTION 3: Composition/information on ingredients**

#### **3.2 Chemical characterisation: Mixtures**

Hazardous ingredients:		
CAS: 61789-40-0	Cocamidopropyl-Betaine	1-5%
EC-no.: 263-058-8		
	Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; Aquatic	
	Chronic 3, H412	
CAS: 497-19-8	Sodium carbonate	.5 – .6%
EC-no.: 207-838-8		
Index no.: 011-005-00-2	Acute Tox. 4, H332; Eye Irrit. 2, H319	
CAS: 1310-73-2	Sodium hydroxide	0.02 – .2%
EC-no.: 215-185-5		
Index no.: 011-002-00-6	Met. Corr.1, H290; Skin Corr. 1A, H314; Eye Dam. 1, H318	
CAS: 8008-57-9	Orange oil	0.02 – .2%
EC-no.: 616-926-9		
	Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Acute 1, H400;	
	Aquatic Chronic 1, H410; Skin Irrit. 2, H315; Skin Sens. 1, H317	
CAS: 8028-48-6	Orange terpene	0.02 – .2%
EC-no.: 232-433-8		
	Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Chronic 2, H411;	
	Skin Irrit. 2, H315; Skin Sens. 1, H317	
Regulation (EC) No. 648/2	004 on detergents/the labelling of ingredients	
Soap, anionic surfactants		≥1-<3%
Phosphonates, phosphates		<1%
Fragrances		

### Additional remarks:

- The product contains RHAPYNAL<sup>®</sup>, anionic biosurfactants from microbial origin.
- See section 16 for the wording of the listed hazard statements.

# **SECTION 4: First aid measures**

### 4.1 Description of first aid measures

**General information:** 

- Take affected persons out of danger area and lay them down.
- Remove any clothing that has been contaminated with the product immediately.
- In case of irregular breathing or respiratory arrest, provide artificial respiration.

#### After inhalation:

- Supply fresh air

#### After skin contact:

- Immediately rinse with water.
- In case of persisting skin irritation, consult a doctor.



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#### After contact with eyes:

- Rinse eyes for several minutes under running water with the eyelid open.
- Remove contact lenses, if present and easy to do. Continue rinsing.

#### After ingestion:

- Rinse mouth and then drink plenty of water.

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

No further relevant information available.

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

No further relevant information available.

### **SECTION 5: Firefighting measures**

#### 5.1 Extinguishing media

### Suitable extinguishing media:

- CO<sub>2</sub>, extinguishing powder or water jet.
- Fight larger fires with water jet or alcohol-resistant foam.
- Use firefighting measures that suit the environment.

Unsuitable extinguishing agents for safety reasons: Water with full jet.

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

- Formation of toxic gases is possible during heating or in case of fire.
- In case of fire, the following can be released: Carbon monoxide, carbon dioxide, phosphorous compounds

#### **5.3 Advice for firefighters**

#### Special protective equipment:

- Wear self-contained breathing apparatus.

#### **Further information:**

- Cool endangered receptacles with water spray.
- Collect contaminated extinguishing water separately, do not allow it to enter sewage systems.

### SECTION 6: Accidental release measure

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

- Provide sufficient ventilation.
- Wear protective equipment. Keep unprotected persons away.

### **6.2 Environmental precautions**

- Do not dispose into the sewage systems/surface water/groundwater undiluted.

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

- Absorb with liquid-binding material (sand, diatomite, acid binder, universal binder, sawdust).
- Dispose of absorbed material in accordance with the regulations.



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### 6.4 Reference to other sections

- See Section 7 for information on safe handling.
- See Section 8 for information on personal protective equipment.
- See section 13 for instructions on disposal.

# **SECTION 7: Handling and storage**

### 7.1 Precautions for safe handling

- Dust formation that cannot be avoided is to be cleaned up regularly.
- Ensure good ventilation/exhaustion at the workplace.
- Avoid the formation of aerosol.

Information on fire and explosion protection: Take precautionary measures against electrostatic charging.

# 7.2 Conditions for safe storage, including any incompatibilities

#### Storage:

**Requirements to be met by storerooms and receptacles:** Do not store at temperatures below 12°C **Information for storing in one common facility:** Not applicable

**Further information about storage conditions:** Store in cool, dry conditions in well-sealed receptacles. **Storage class:** 10 - 13 (Further differentiation is renounced, because there is no legal restriction concerning storage in one common facility among the storage classes 10-13.)

Classification according to Industrial Safety Regulation (BetrSichV): -

### 7.3 Specific end use(s)

No further relevant information available.

# **SECTION 8: Exposure controls/personal protection**

### 8.1 Control parameters

Components with limit values that require monitoring at the workplace:	
CAS: 56-81-5 Glycerin	
AGW (Germany)	Long-term value: 200 E mg/m <sup>3</sup>
	2 (I);DFG, Y
CAS: 1310-73-2 Sodium hydroxide	
MAK (Germany)	See Section IIb

### 8.2 Exposure controls

Personal protective equipment:

### General protective and hygienic measures:

- Do not eat, drink, smoke or sneeze at the workplace.
- Keep away from food, drink and animal feeding stuffs.
- Store work clothing separately.
- Adhere to the usual precautionary measures when dealing with chemicals.

Respiratory protection: Not necessary if room is well-ventilated

### Hand protection:



Protective gloves

Only use chemical-protective gloves with CE-labelling of category III.



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- The glove material must be impermeable and resistant against the product / substance / preparation.
- Choose the glove material by considering the penetration time, permeation rates and degradation.

### **Glove material**

The selection of the suitable gloves does not only depend on the material, but also on further quality features, which may vary from manufacture to manufacture. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and therefore has to be checked prior to the application.

### Penetration time of glove material

The exact penetration time is to be obtained from the glove manufacturer and must be adhered to.

### Eye protection:



Tightly sealed safety goggles

### Body protection: Protective work wear

#### **SECTION 9: Physical and chemical properties** 9.1 Information on basic physical and chemical properties **General information** Appearance: Form: Liquid Colour: Light yellow Odour: Characteristic **Odour threshold:** Not determined pH-value at 20 °C: ~ 10.5 +/- 1 (batch-dependent) Change in condition: Melting point/freezing point: Not determined Initial boiling point/boiling range: 100 °C **Flash Point:** Not determined Flammability (solid, gas): Not applicable Ignition temperature: Not determined **Decomposition temperature:** Not determined **Explosive properties:** The product is not an explosive substance. **Explosive limits:** Lower: Not applicable Upper: Not applicable **Oxidising properties:** No Vapor pressure: Not applicable Density at 20 °C: 1.1 - 1.12 g/cm<sup>3</sup> **Relative density:** Not determined Not determined Vapor density: Not determined **Evaporation rate:** Solubility in/miscibility with water: Fully miscible



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<ul> <li>Partition coefficient: n-octan</li> </ul>	ol/water:	

8028-48-6	Orange terpene	2.78 – 4.88 logPow (QSAR)

- Viscosity:

Dynamic: Kinematic: 881.7 – 881.9 mPa\*S @20°C Not determined

# 9.2 Other information

No further relevant information available.

# **SECTION 10: Stability and reactivity**

### 10.1 Reactivity

No further relevant information available.

### 10.2 Chemical stability

No decomposition if used and stored according to specifications.

## Thermal decomposition / Conditions to be avoided:

No decomposition if used according to specifications.

### 10.3 Possibility of hazardous reactions

No dangerous reactions known.

# 10.4 Conditions to avoid

No further relevant information available.

### **10.5 Incompatible materials**

No further relevant information available.

### **10.6 Hazardous decomposition products**

No hazardous decomposition products known.

# **SECTION 11: Toxicological information**

### 11.1 Information on toxicological effects

Acute toxicity:

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

Classification-relevant LD/LC50-values:			
CAS: 61789-40-0 Cocamidopropyl-Betaine			
Oral	LD50	LD50 > 5000 mg/kg (Rat) (OECD Guideline 401)	
CAS: 497-19-8 Sodium carbonate			
Oral	LD50	2800 mg/kg (Rat) (OECD Guideline 401)	
Dermal	LD50	> 2000 mg/kg (Rabbit) (EPA 16 CFR 1500.40)	
Inhalation	LC50 (4h)	2.3 mg/L (Rat) (OECD Guideline 403, inhalation:aerosol)	
CAS: 8028-48-6 Orange terpene			
Oral	LD50	> 5000 mg/kg (Rat) (OECD Guideline 401)	
Dermal	LD50	> 5000 mg/kg (Rabbit) (OECD Guideline 402)	



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#### **Primary irritant effect**

- Skin corrosion/irritation: Based on available data, the classification criteria are not met.
- \_ Serious eye damage/irritation:
- Respiratory or skin sensitisation: May cause an allergic skin reaction. \_

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

- Based on available data, the classification criteria are not met. Germ cell mutagenicity:
- **Carcinogenicity:** -
- -
- Based on available data, the classification criteria are not met.

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

- **Reproductive toxicity:**
- \_ STOT-single exposure:
- Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met.

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

- STOT-repeated exposure: -
- \_ Aspiration hazard:

# **SECTION 12: Ecological information**

#### 12.1 Toxicity

Aquatic toxicity:		
CAS: 61789-40-0 Cocamidopro	ppyl-Betaine	
LC50 (96h) (static)	2 mg/L (Fish) (Danio rerio)	
	nominal	
EC50 (48h) (static)	30 mg/L (Algae) (Ulva lactuca)	
	nominal	
	6.4 mg/L (Daphnia) (OECD Guideline 202, Daphnia magna)	
	nominal	
NOEC (21d) (static)	0.9 mg/L (Daphnia) (OECD Guideline 202, Daphnia magna)	
CAS: 407 10 8 Codium control	nominal	
CAS: 497-19-8 Sodium carbon		
LC50 (96h) (static)	300 mg/L (Fish) (Lepomis macrochirus)	
EC50 (48h)	200 - 227 mg/L (Daphnia) (Ceriodaphnia sp.)	
	semi-static	
CAS: 1310-73-2 Sodium hydroxide		
EC50 (48h)	40.4 mg/L (Daphnia) (Ceriodaphnia sp)	
CAS: 8028-48-6 Orange terper	ie	
LL50 (96h)	5.65 mg/L (Fish) (OECD Guideline 203, Danio rerio)	
	semi-static, nominal	
EL50 (48h) (static)	1.1 mg/L (Daphnia) (OECD Guideline 202, Daphnia magna)	
	nominal	
EL50 (72h) (static)	150 mg/L (Algae) (OECD Guideline 201, Desmodesmus subspicatus)	
	Nominal	
NOELR (static)	50 mg/L (Algae) (OECD Guideline 201, Desmodesmus subspicatus)	
	nominal	

### 12.2 Persistence and degradability

No further relevant information available.

### **12.3 Bioaccumulative potential**

61789-40-0	Cocamidopropyl-Betaine	70.79 BCF (@ 25°C; calculation)
8028-48-6	Orange terpene	32 - 395 BCF (QSAR)



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#### 12.4 Mobility in soil

No further relevant information available.

#### 12.5 Results of PBT and vPvB assessment

Not determined

# 12.6 Other adverse effects

No further relevant information available.

## **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

Recommendation: Must be specially treated under adherence to official regulations.

#### **Uncleaned packagings**

**Recommendation:** Disposal must be made according to official regulations.

<u>14.1 UN number</u> ADR/RID/ADN, IMDG, IATA	Void	
<u>14.2 UN proper shipping name</u> ADR/RID/ADN, IMDG, IATA	Void	
<u>14.3 Transport hazard class(es)</u> ADR/RID/ADN, IMDG, IATA-Class	Void	
<u>14.4 Packing group</u> ADR/RID/ADN, IMDG, IATA	Void	
<b>14.5 Environmental hazards</b> Not applicable		
14.6 Special precautions for user Not applicable		
<b>14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b> Not applicable		
Transport/Additional information: UN Model Regulation:	Not a hazardous good according to the above regulations. Void	
SECTION 15: Regulatory information		

# <u>15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture</u> Directive 2012/18/EU

- Hazardous substances as listed in Annex I: None of the ingredients is listed.
- Restrictive conditions according to Regulation (EC) No 1907/2006 Annex XVII: 3



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#### National regulations

- Water hazard class: WGK 1 (own classification): slightly hazardous to water

#### 15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

### **SECTION 16: Other information**

The information contained herein is based on the present state of our knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

#### **Relevant statements**

H290: May be corrosive to metals H304: May be fatal if swallowed and enters airways H314: Causes severe skin burns and eye damage H315: Causes skin irritation H317: May cause an allergic skin reaction H318: Causes serious eye damage H319: Causes serious eye irritation H332: Harmful if inhaled H400: Very toxic to aquatic life H410: Very toxic to aquatic life with long-lasting effects H411: Toxic to aquatic life with long-lasting effects H412: Harmful to aquatic life with long-lasting effects Abbreviations and acronyms: REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals MARPOL: (from Marine Pollutant) International Convention for the Prevention of Marine Pollution from Ships IBC Code: International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk UN: United Nations (also UNO: United Nations Organization) NOEC: No Observed Effect Concentration OECD: Organisation for Economic Co-operation and Development ASTM: American Society for Testing and Materials WAF: Water Accommodated Fraction ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 3: flammable liquids – Category 3

Met. Corr.1: corrosive to metals – Category 1

Acute Tox. 4: Acute toxicity – Category 4

Skin Corr. 1A: Skin corrosion/irritation – Category 1A

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Dam. 1: Serious eye damage/irritation – Category 1

Eye Irrit. 2: Serious eye damage/irritation – Category 2

Skin Sens. 1: Skin sensitisation – Category 1



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Asp. Tox. 1: Aspiration hazard – Category 1

Aquatic Acute 1: Hazardous to the aquatic environment - acute hazard – Category 1  $\,$ 

Aquatic Chronic 1: Hazardous to the aquatic environment – long-term hazardous to the aquatic environment – Category 1

 $\label{eq:Aquatic Chronic 2: Hazardous to the aquatic environment-long-term hazardous to the aquatic environment-Category 2$ 

Aquatic Chronic 3: Hazardous to the aquatic environment – long-term hazardous to the aquatic environment – Category 3