

according to Regulation (EC) No. 1907/2006



Version            Revision Date:  
1.1                27.01.2017  
REG\_EU\_  
RED/EN

Date of last issue: 13.12.2016  
Date of first issue: 13.12.2016

### 1.1 Product identifier

Trade name : BEICLEAN NATURAL NEU

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

Use of the Sub-	:	Auxiliary for the feather / down industry
stance/Mixture		Detergents

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

**Manufacturer/Supplier**

CHT R. BEITLICH GMBH  
Bismarckstraße 102  
72072 Tübingen  
Germany  
Tel.: +49(0)70 71 15 40  
info@cht.com

BEZEMA AG  
Kriessernstrasse 20  
9462 Montlingen  
Switzerland  
Tel.: +41(0)71 763 88 11  
bezema@bezema.com

**Importer** : -  
-  
-  
-  
-

**Responsible Department** : CHT R. BEITLICH GMBH  
BEZEMA AG  
Product Safety  
msds@cht.com  
product.safety@bezema.com

#### 1.4 Emergency telephone number

**Emergency telephone number** : +49(0)70 71 15 40 (Germany, 24 hours)  
+41(0)71 763 88 11 (Switzerland, 24 hours)

## SECTION 2: Hazards identification

## 2.1 Classification of the substance or mixture

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

Serious eye damage, Category 1

H318: Causes serious eye damage.

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### 2.2 Label elements

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

Hazard pictograms :



Signal word : Danger

Hazard statements : H318 Causes serious eye damage.

Precautionary statements : **Prevention:**  
P280 Wear eye protection/ face protection.

#### **Response:**

P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.

Hazardous components which must be listed on the label:

D-Glucopyranose, oligomers, decyl octyl glycosides

#### **Additional Labelling**

EUH208 Contains Orange, sweet, ext.. May produce an allergic reaction.

### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

Chemical nature : Aqueous composition of nonionic surfactants

#### **Hazardous components**

Chemical name	CAS-No. EC-No. Registration number	Classification	Concentration (% w/w)
D-Glucopyranose, oligomers, decyl octyl glycosides	68515-73-1 500-220-1 01-2119488530-36	Eye Dam. 1; H318	>= 20 - < 30
D-Glucopyranose, oligomeric, C10-16-alkyl glycosides	110615-47-9 01-2119489418-23	Skin Irrit. 2; H315 Eye Dam. 1; H318	>= 12 - < 20

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butan-1-ol	71-36-3 200-751-6 01-2119484630-38	Flam. Liq. 3; H226 Acute Tox. 4; H302 STOT SE 3; H335, H336 Skin Irrit. 2; H315 Eye Dam. 1; H318	$\geq 1 - < 3$
Orange, sweet, ext.	8028-48-6 232-433-8	Flam. Liq. 3; H226 Skin Irrit. 2; H315 Skin Sens. 1; H317 Asp. Tox. 1; H304 Aquatic Chronic 2; H411	$\geq 0,25 - < 1$

For explanation of abbreviations see section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

- General advice : Take off all contaminated clothing immediately.  
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 : Wash off immediately with soap and plenty of water.  
If symptoms persist, call a physician.
- In case of eye contact : In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.  
Call a physician immediately.
- If swallowed : Rinse mouth with water.  
Do NOT induce vomiting.  
Call a physician immediately.

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

- Risks : Refer to section 2 and 11.

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

- Treatment : Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

- Suitable extinguishing media : Carbon dioxide (CO<sub>2</sub>)

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Water spray  
Dry powder  
Alcohol-resistant foam

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

Specific hazards during fire-fighting : Hazardous decomposition products formed under fire conditions.  
Can be released in case of fire:  
Carbon oxides

### 5.3 Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.  
  
Further information : In case of fire do not inhale smoke, conflagration gases and steams.  
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.  
Contaminated surfaces will be extremely slippery.

### 6.2 Environmental precautions

Environmental precautions : The product should not be allowed to enter drains, water courses or the soil.  
Pay attention to local or official regulations.

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

Methods for cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).  
Clean contaminated surface thoroughly.  
Dispose of in accordance with local regulations.

### 6.4 Reference to other sections

Refer to protective measures listed in sections 7 and 8.

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Advice on safe handling : Provide sufficient air exchange and/or exhaust in work rooms.  
  
Advice on protection against : No special protective measures against fire required.



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fire and explosion

Hygiene measures : Avoid contact with skin, eyes and clothing.  
Take off all contaminated clothing immediately.  
Handle in accordance with good industrial hygiene and safety practice.

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

Requirements for storage areas and containers : Do always store in containers which correspond to the original ones.  
Keep container tightly closed.

Further information on storage conditions : Protect from temperatures below + 5 °C. Protect from temperatures over + 40 °C.

Storage class (TRGS 510) : 10, Combustible liquids

### 7.3 Specific end use(s)

Specific use(s) : Consult the technical guidelines for the use of this substance/mixture.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

**Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:**

Substance name	End Use	Exposure routes	Potential health effects	Value
D-Glucopyranose, oligomers, decyl octyl glycosides	Workers	Inhalation	Long-term systemic effects	420 mg/m3
	Workers	Skin contact	Long-term systemic effects	595000 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	124 mg/m3
	Consumers	Skin contact	Long-term systemic effects	357000 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	35,7 mg/kg bw/day
D-Glucopyranose, oligomeric, C10-16-alkyl glycosides	Workers	Skin contact	Long-term systemic effects	595000 mg/kg bw/day
	Workers	Inhalation	Long-term systemic effects	420 mg/m3
	Consumers	Skin contact	Long-term systemic effects	357000 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	124 mg/m3

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	Consumers	Ingestion	Long-term systemic effects	35,7 mg/kg bw/day
Reaction mass of di-methyl adipate and dimethyl glutarate and dimethyl succinate	Workers	Inhalation	Local effects, Chronic effects	8,3 mg/m3
	Workers	Inhalation	Local effects, Chronic effects	8,3 mg/m3
	Consumers	Inhalation	Local effects, Chronic effects	5 mg/m3
	Consumers	Inhalation	Local effects, Chronic effects	5 mg/m3
butan-1-ol	Workers	Inhalation	Systemic effects, Local effects, Long-term exposure	310 mg/m3
	Consumers	Inhalation	Systemic effects, Local effects, Long-term exposure	55 mg/m3
	Workers	Ingestion	Systemic effects, Local effects, Long-term exposure	3125 mg/kg
Orange, sweet, ext.	Workers	Inhalation	Long-term systemic effects	31,1 mg/m3
	Workers	Dermal	Long-term systemic effects	8,89 mg/kg bw/day
	Workers	Dermal	Long-term local effects	0,186 mg/cm2
	Consumers	Inhalation	Long-term systemic effects	7,78 mg/m3
	Consumers	Dermal	Long-term systemic effects	4,44 mg/kg bw/day
	Consumers	Dermal	Long-term local effects	0,093 mg/cm2
	Consumers	Ingestion	Long-term systemic effects	4,44 mg/kg bw/day

**Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:**

Substance name	Environmental Compartment	Value
D-Glucopyranose, oligomers, decyl octyl glycosides	Fresh water	0,176 mg/l
	Marine water	0,018 mg/l
	Waste water treatment plant	560 mg/l
	Intermittent use/release	0,027 mg/l
	Fresh water sediment	1,516 mg/kg
	Marine sediment	0,152 mg/kg
	Soil	0,654 mg/kg
	Secondary Poisoning	111,11 mg/kg
D-Glucopyranose, oligomeric, C10-16-alkyl glycosides	Fresh water	0,176 mg/l
	Marine water	0,018 mg/l
	Waste water treatment plant	5000 mg/l

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	Intermittent use/release	0,0295 mg/l
	Fresh water sediment	1,516 mg/kg
	Marine sediment	0,065 mg/kg
	Soil	0,654 mg/kg
	Secondary Poisoning	111,11 mg/kg
Reaction mass of dimethyl adipate and dimethyl glutarate and dimethyl succinate	Fresh water	0,018 mg/l
	Fresh water	0,018 mg/l
	Marine water	0,0018 mg/l
	Marine water	0,0018 mg/l
	Waste water treatment plant	10 mg/l
	Waste water treatment plant	10 mg/l
	Intermittent use/release	0,18 mg/l
	Intermittent use/release	0,18 mg/l
	Fresh water sediment	0,16 mg/kg
	Fresh water sediment	0,16 mg/kg
butan-1-ol	Fresh water	0,082 mg/l
	Marine water	0,0082 mg/l
	Intermittent use/release	2,25 mg/l
	Waste water treatment plant	2476 mg/l
	Fresh water sediment	0,178 mg/kg
	Marine sediment	0,0178 mg/kg
	Soil	0,015 mg/kg
Orange, sweet, ext.	Fresh water	5,4 µg/l
	Marine water	0,54 µg/l
	STP	2,1 mg/l
	Fresh water sediment	1,3 mg/kg dry weight (d.w.)
	Marine sediment	0,13 mg/kg dry weight (d.w.)
	Soil	0,261 mg/kg dry weight (d.w.)

### 8.2 Exposure controls

#### Engineering measures

Solids with occupational exposure limits in liquid preparations do not cause an exposure in the workplace, because they are not present in a respirable form. Exposure can occur in the form of aerosols or after drying of the liquid the solids remain, possibly in a finely dispersed form. Provide sufficient air exchange and/or exhaust in work rooms.

#### Personal protective equipment

Eye protection : Safety glasses

#### Hand protection

Material : Nitrile rubber  
Break through time : > 480 min  
Glove thickness : > 0,4 mm  
Protective index : Class 6

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- Remarks : The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other.  
The obtained break through times according to EN 374 Part III are not measured under normal operating conditions.  
Therefore a maximum usage time of 50% of the break through time is recommended.
- Skin and body protection : Wear suitable protective clothing.
- Respiratory protection : In case of inadequate ventilation wear respiratory protection.  
Recommended Filter type:  
Combination filter A/P

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**SECTION 9: Physical and chemical properties**

**9.1 Information on basic physical and chemical properties**

- Appearance : liquid
- Colour : clear, colourless, slight, yellowish
- Odour : like fruit
- pH : 6,3 - 6,7 (20 °C)
- Melting point/range : No data available
- Boiling point/boiling range : No data available
- Flash point : 63,5 °C
- Evaporation rate : Not applicable
- Upper explosion limit : Not applicable
- Lower explosion limit : Not applicable
- Vapour pressure : No data available
- Relative vapour density : Not applicable
- Density : 1,077 g/cm<sup>3</sup> (20 °C)
- Solubility(ies)  
Water solubility : soluble

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Partition coefficient: n-octanol/water	:	Not applicable
Viscosity		
Viscosity, dynamic	:	35 - 80 mPa.s (20 °C) Brookfield LVT 50 rpm spindle 2
Oxidizing properties	:	Not applicable

### 9.2 Other information

Conductivity	:	Not determined
Self-ignition	:	not auto-flammable

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No hazards to be specially mentioned.

### 10.2 Chemical stability

The product is chemically stable.

### 10.3 Possibility of hazardous reactions

Hazardous reactions	:	No dangerous reaction known under conditions of normal use.
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### 10.4 Conditions to avoid

Conditions to avoid	:	Not applicable
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### 10.5 Incompatible materials

Materials to avoid	:	Not applicable
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### 10.6 Hazardous decomposition products

No decomposition if stored and applied as directed.

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## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

#### Product:

Acute oral toxicity	:	Acute toxicity estimate: > 2.000 mg/kg Method: Calculation method
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Acute inhalation toxicity : Based on available data, the classification criteria are not met.

Acute dermal toxicity : Based on available data, the classification criteria are not met.

### Components:

#### **D-Glucopyranose, oligomers, decyl octyl glycosides:**

Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg  
Method: OECD Test Guideline 401

Acute dermal toxicity : LD50 Dermal: > 2.000 mg/kg  
Method: OECD Test Guideline 402

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

Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg  
Method: OECD Test Guideline 401  
value stated in literature

Acute dermal toxicity : LD50 (Rabbit): > 2.000 mg/kg  
Method: OECD Test Guideline 402  
value stated in literature

#### **butan-1-ol:**

Acute oral toxicity : LD50 (Rat): > 790 mg/kg  
Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat): > 17,76 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Method: OECD Test Guideline 403  
Maximum attainable concentration

Acute dermal toxicity : LD50 (Rabbit): > 3.000 mg/kg  
Method: OECD Test Guideline 402

#### **Orange, sweet, ext.:**

Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg  
Method: OECD Test Guideline 401

Acute dermal toxicity : LD50 (Rabbit): > 5.000 mg/kg  
Method: OECD Test Guideline 402

### **Skin corrosion/irritation**

#### Product:

Prolonged skin contact may cause skin irritation.



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### Components:

#### **D-Glucopyranose, oligomers, decyl octyl glycosides:**

Species: Rabbit  
Method: OECD Test Guideline 404  
Result: Mild skin irritation

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

Species: Rabbit  
Method: OECD Test Guideline 404  
Result: Irritating to skin.  
value stated in literature

#### **butan-1-ol:**

Species: Rabbit  
Method: Draize Test  
Result: Causes skin irritation.

#### **Orange, sweet, ext.:**

Species: Rabbit  
Method: OECD Test Guideline 404  
Result: Irritating to skin.

### **Serious eye damage/eye irritation**

#### Product:

Causes serious eye damage.

### Components:

#### **D-Glucopyranose, oligomers, decyl octyl glycosides:**

Species: Rabbit  
Method: OECD Test Guideline 405  
Result: Irreversible effects on the eye

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

Species: Rabbit  
Method: OECD Test Guideline 405  
Result: Risk of serious damage to eyes.  
value stated in literature

#### **butan-1-ol:**

Species: Rabbit  
Method: OECD Test Guideline 405  
Result: Causes serious eye damage.

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### **Orange, sweet, ext.:**

Species: Rabbit  
Method: OECD Test Guideline 405  
Result: No eye irritation

### **Respiratory or skin sensitisation**

#### **Product:**

May produce an allergic reaction.

#### **Components:**

##### **D-Glucopyranose, oligomers, decyl octyl glycosides:**

Species: Guinea pig  
Method: OECD Test Guideline 406  
Result: Did not cause sensitisation on laboratory animals.

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

Species: Guinea pig  
Method: OECD Test Guideline 406  
Result: Does not cause skin sensitisation.  
value stated in literature

##### **butan-1-ol:**

Test Type: Maximisation Test  
Species: Guinea pig  
Method: OECD Test Guideline 406  
Result: Does not cause skin sensitisation.  
Argument by analogy

### **Orange, sweet, ext.:**

Species: Mouse  
Method: OECD Test Guideline 429  
Result: May cause sensitisation by skin contact.

### **Germ cell mutagenicity**

#### **Product:**

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

#### **Components:**

##### **D-Glucopyranose, oligomers, decyl octyl glycosides:**

Genotoxicity in vitro : Test Type: Ames test  
Method: OECD Test Guideline 471  
Result: negative

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In vitro tests did not show mutagenic effects

### butan-1-ol:

Germ cell mutagenicity- Assessment : Not mutagenic in Ames Test Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

### Carcinogenicity

#### Product:

Carcinogenicity - Assessment : Based on available data, the classification criteria are not met.

### Reproductive toxicity

#### Product:

Reproductive toxicity - Assessment : Based on available data, the classification criteria are not met.

### Components:

#### butan-1-ol:

Reproductive toxicity - Assessment : Animal testing did not show any effects on fertility.

### STOT - single exposure

#### Product:

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

### STOT - repeated exposure

#### Product:

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

### Aspiration toxicity

#### Product:

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

### Components:

#### Orange, sweet, ext.:

May be fatal if swallowed and enters airways.

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### SECTION 12: Ecological information

#### 12.1 Toxicity

##### Product:

- Toxicity to fish : No data is available on the product itself.
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 1 - 10 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202  
Argument by analogy
- Toxicity to algae : No data is available on the product itself.
- Toxicity to microorganisms : EC50 (activated sludge): > 1.000 mg/l  
Method: Retarded respiration test (OECD 209)  
Argument by analogy

##### Components:

##### **D-Glucopyranose, oligomers, decyl octyl glycosides:**

- Toxicity to fish : LC50 (Scophthalmus maximus): 96,64 mg/l  
Exposure time: 96 h
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 32,62 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202
- Toxicity to algae : EC50 (Scenedesmus subspicatus): 19,82 mg/l  
Exposure time: 72 h  
Method: 88/302/EEC C.3
- Toxicity to microorganisms : EC10 (Pseudomonas putida): > 560 mg/l  
Exposure time: 6 h  
Method: Retarded respiration test (OECD 209)
- EC50 (Pseudomonas putida): > 560 mg/l  
Exposure time: 6 h  
Method: Retarded respiration test (OECD 209)
- Toxicity to fish (Chronic toxicity) : NOEC: 1 - 3,2 mg/l  
Exposure time: 28 d  
Species: Danio rerio (zebra fish)  
Test Type: flow-through test  
Method: OECD Test Guideline 204
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 1 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Method: OECD Test Guideline 202, Part II

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

- Toxicity to fish : LC50 (Danio rerio (zebra fish)): > 1 - 10 mg/l  
Exposure time: 96 h  
Test Type: semi-static test  
Method: Tested according to Directive 92/69/EEC.  
value stated in literature
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 1 - 10 mg/l  
Exposure time: 48 h  
Method: Tested according to Directive 92/69/EEC.  
value stated in literature
- Toxicity to algae : EC50 (Desmodesmus subspicatus (green algae)): > 10 - 100 mg/l  
Exposure time: 72 h  
Test Type: static test  
Method: DIN 38412, part 9  
value stated in literature
- Toxicity to fish (Chronic toxicity) : NOEC: > 1 mg/l  
Exposure time: 28 d  
Species: Danio rerio (zebra fish)  
value stated in literature
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : EC10: > 1 - 10 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Test Type: semi-static test  
Method: OECD Test Guideline 202, Part II  
value stated in literature

### **butan-1-ol:**

- Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): > 1.000 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 1.328 - 1.983 mg/l  
Exposure time: 48 h  
Test Type: static test  
Method: OECD Test Guideline 202

### **Orange, sweet, ext.:**

- Toxicity to fish : LL50 (Danio rerio (zebra fish)): 5,65 mg/l  
Exposure time: 96 h  
Test Type: semi-static test  
Method: OECD Test Guideline 203
- Toxicity to daphnia and other : NOELR (Daphnia magna (Water flea)): 0,48 mg/l

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aquatic invertebrates      Exposure time: 48 h  
Test Type: static test  
Method: OECD Test Guideline 202

EL50 (Daphnia magna (Water flea)): 1,1 mg/l  
Exposure time: 48 h  
Test Type: static test  
Method: OECD Test Guideline 202

Toxicity to algae      : EL50 (Desmodesmus subspicatus): 150 mg/l  
Exposure time: 72 h  
Test Type: static test  
Method: OECD Test Guideline 201

### Ecotoxicology Assessment

Chronic aquatic toxicity      : Toxic to aquatic life with long lasting effects.

### 12.2 Persistence and degradability

#### Product:

Biodegradability      : Test Type: O2 measuring  
Biodegradation: > 70 %  
Exposure time: 28 d  
Method: OECD 301 F (mineralisation)  
The product is "readily biodegradable" according to the criteria of the OECD.  
Argument by analogy  
The surfactant(s) contained in this mixture complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

#### Components:

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

Biodegradability      : Test Type: DOC measuring  
Result: Readily biodegradable.  
Biodegradation: > 90 %  
Exposure time: 28 d  
Method: OECD 301 A (elimination)  
value stated in literature

##### **Orange, sweet, ext.:**

Biodegradability      : Test Type: O2 measuring  
Result: Readily biodegradable.  
Biodegradation: > 70 %  
Exposure time: 28 d



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Method: OECD 301 B (mineralisation)

**12.3 Bioaccumulative potential**

**Product:**

Bioaccumulation                                : No data is available on the product itself.

Partition coefficient: n-                        : Not applicable  
octanol/water

**Components:**

**D-Glucopyranose, oligomers, decyl octyl glycosides:**

Bioaccumulation                                : Bioaccumulation is unlikely.

**butan-1-ol:**

Partition coefficient: n-                        : log Pow: 0,88  
octanol/water

**12.4 Mobility in soil**

**Product:**

Mobility    : No data available

**Components:**

**D-Glucopyranose, oligomers, decyl octyl glycosides:**

Mobility    : Substance does not evaporate from water surface into the  
atmosphere., Bonding to solid soil phase is not expected.,  
Information taken from reference works and the literature.

**12.5 Results of PBT and vPvB assessment**

**Product:**

Assessment    : This substance/mixture contains no components considered  
to be either persistent, bioaccumulative and toxic (PBT), or  
very persistent and very bioaccumulative (vPvB) at levels of  
0.1% or higher..

**12.6 Other adverse effects**

**Product:**

Adsorbed organic bound                                : Because of the components, which do not contain any organic  
halogens (AOX)    halogens, this product does not increase the AOX-values in  
the waste water.

Additional ecological infor-                                : According to our knowledge, the product does not contain

according to Regulation (EC) No. 1907/2006



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mation heavy metals and other compounds of EC directive 2000/60 EC.

## SECTION 13: Disposal considerations

Product	: Dispose of in accordance with local regulations.
Contaminated packaging	: Dispose of in accordance with local regulations.

## SECTION 14: Transport information

Not regulated as a dangerous good

Not regulated as a dangerous good

Not regulated as a dangerous good

Not regulated as a dangerous good

Not regulated as a dangerous good

## Remarks : see chapter 6 - 8

## Remarks : Not applicable

## SECTION 15: Regulatory information

according to Detergents Regulation EC 648/2004 :

- 30 % and more: Non-ionic surfactants
- Other constituents: Perfumes
- Preservation agents:
  - BENZISOTHIAZOLINONE
  - METHYLISOTHIAZOLINONE
- Allergens:
  - LIMONENE

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Other regulations : Currently no information available.

### 15.2 Chemical safety assessment

not required

## SECTION 16: Other information

### Full text of H-Statements

H226	: Flammable liquid and vapour.
H302	: Harmful if swallowed.
H304	: May be fatal if swallowed and enters airways.
H315	: Causes skin irritation.
H317	: May cause an allergic skin reaction.
H318	: Causes serious eye damage.
H335	: May cause respiratory irritation.
H336	: May cause drowsiness or dizziness.
H411	: Toxic to aquatic life with long lasting effects.

### Full text of other abbreviations

Acute Tox.	: Acute toxicity
Aquatic Chronic	: Chronic aquatic toxicity
Asp. Tox.	: Aspiration hazard
Eye Dam.	: Serious eye damage
Flam. Liq.	: Flammable liquids
Skin Irrit.	: Skin irritation
Skin Sens.	: Skin sensitisation
STOT SE	: Specific target organ toxicity - single exposure

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not

according to Regulation (EC) No. 1907/2006



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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; 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

### Further information

Other information : This data sheet contains changes from the previous version in section(s):  
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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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