



## SAFETY DATA SHEET

### Sultrapon EU3

According to the REACH etc. (Amendment etc.) (EU Exit) Regulations 2020 No. 1577, as amended.

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

##### 1.1. Product identifier

Product name	Sultrapon EU3
Product number	7867/21469
UFI	UFI: F8V0-D77H-Q00K-SA76

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

Identified uses	Detergent. Cleaning agent. Dry Cleaning
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##### 1.3. Details of the supplier of the safety data sheet

Supplier	Christeyns NV Afrikalaan 182 9000 Gent Belgium Tel: +32 9 223 38 71 info@christeyns.be
Manufacturer	Cole & Wilson Ltd Rutland Street Bradford West Yorkshire BD4 7EA T:01274 393286 F: 01274 309143 info@colewilson.co.uk

##### 1.4. Emergency telephone number

Emergency telephone	Tel: 01274 393286, Fax: 01274 309143 (8.30am-5pm Monday to Friday)
National emergency telephone number	NHS Direct 111 (GB) National Poisons Information Service Tel: +44 344 892 0111 (UK) - Medical Professionals Only National Poisons Information Centre Tel: +353 (01) 809 2566 (Ireland) - Healthcare Professionals only (24 hour service)

#### SECTION 2: Hazards identification

##### 2.1. Classification of the substance or mixture

Classification (SI 2019 No. 720)

Physical hazards	Not Classified
Health hazards	Skin Irrit. 2 - H315 Eye Dam. 1 - H318
Environmental hazards	Aquatic Chronic 3 - H412

##### 2.2. Label elements

Hazard pictograms



Signal word	Danger
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<b>Hazard statements</b>	H315 Causes skin irritation. H318 Causes serious eye damage. H412 Harmful to aquatic life with long lasting effects.
<b>Precautionary statements</b>	P273 Avoid release to the environment. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P302+P352 IF ON SKIN: Wash with plenty of water. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P501 Dispose of contents/ container in accordance with national regulations.
<b>Contains</b>	Amides, C8-18 (even numbered) and C18-unsatd., N,N-bis(hydroxyethyl), SODIUM DI-OCTYL SULPHOSUCCINATE, Reaction product of Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. and Benzenesulfonic acid, 4-methyl- and sodium hydroxide, 2-Propylheptanol, ethoxylated
<b>Detergent labelling</b>	5 - < 15% aliphatic hydrocarbons, 5 - < 15% anionic surfactants, 5 - < 15% non-ionic surfactants
<b>Supplementary precautionary statements</b>	P264 Wash contaminated skin thoroughly after handling. P310 Immediately call a POISON CENTER/ doctor. P321 Specific treatment (see medical advice on this label). P332+P313 If skin irritation occurs: Get medical advice/ attention. P362+P364 Take off contaminated clothing and wash it before reuse.

### 2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

2-(2-butoxyethoxy)ethanol	10-15%
CAS number: 112-34-5	EC number: 203-961-6
<b>Classification</b> Eye Irrit. 2 - H319	
Dodecylbenzenesulphonic acid, compound with 2-aminoethanol (1:1)	5-10%
CAS number: 26836-07-7	EC number: 248-024-2
<b>Classification</b> Acute Tox. 4 - H302 Skin Irrit. 2 - H315 Eye Irrit. 2 - H319	
Amides, C8-18 (even numbered) and C18-unsatd., N,N-bis(hydroxyethyl)	5-10%
CAS number: 68155-07-7	EC number: 931-329-6
<b>Classification</b> Skin Irrit. 2 - H315 Eye Dam. 1 - H318 Aquatic Chronic 2 - H411	
SODIUM DI-OCTYL SULPHOSUCCINATE	3-5%
CAS number: 577-11-7	EC number: 209-406-4
<b>Classification</b> Skin Irrit. 2 - H315 Eye Dam. 1 - H318	



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**Hazardous combustion products** Does not decompose when used and stored as recommended. Thermal decomposition or combustion products may include the following substances: Harmful gases or vapours.

### 5.3. Advice for firefighters

**Protective actions during firefighting** Dangerous for the environment if discharged into watercourses. If risk of water pollution occurs, notify appropriate authorities. Control run-off water by containing and keeping it out of sewers and watercourses.

**Special protective equipment for firefighters** Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Firefighter's clothing will provide a basic level of protection for chemical incidents.

## SECTION 6: Accidental release measures

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

**Personal precautions** Wear protective clothing as described in Section 8 of this safety data sheet.

### 6.2. Environmental precautions

**Environmental precautions** Harmful to aquatic life with long lasting effects. Dangerous for the environment if discharged into watercourses. Do not discharge into drains or watercourses or onto the ground. Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body.

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

**Methods for cleaning up** Absorb in vermiculite, dry sand or earth and place into containers. Flush spilled material into suitable retaining areas or container with large quantities of water. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage. Dispose of contents/container in accordance with national regulations.

### 6.4. Reference to other sections

**Reference to other sections** Wear protective clothing as described in Section 8 of this safety data sheet. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards. For waste disposal, see Section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

**Usage precautions** Wear protective clothing as described in Section 8 of this safety data sheet. Keep away from food, drink and animal feeding stuffs. Handle all packages and containers carefully to minimise spills. Keep container tightly sealed when not in use. Avoid contact with skin and eyes.

**Advice on general occupational hygiene** Wash promptly if skin becomes contaminated. Take off contaminated clothing. Wash contaminated clothing before reuse.

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

**Storage precautions** Keep above the chemical's freezing point to avoid rupturing the container. Keep container tightly closed.

**Storage class** Chemical storage.

### 7.3. Specific end use(s)

**Specific end use(s)** The identified uses for this product are detailed in Section 1.2.

## SECTION 8: Exposure controls/Personal protection

### 8.1. Control parameters

#### Occupational exposure limits

#### 2-(2-butoxyethoxy)ethanol

Long-term exposure limit (8-hour TWA): WEL 10 ppm 67.5 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 15 ppm 101.2 mg/m<sup>3</sup>

#### MONOPROPYLENE GLYCOL

Long-term exposure limit (8-hour TWA): WEL 150 ppm 474 mg/m<sup>3</sup> total vapour and particulates

Long-term exposure limit (8-hour TWA): WEL 10 mg/m<sup>3</sup> particulate

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WEL = Workplace Exposure Limit.

### 2-(2-butoxyethoxy)ethanol (CAS: 112-34-5)

DNEL	<p>Workers - Inhalation; Long term systemic effects: 67.5 mg/m<sup>3</sup></p> <p>Workers - Dermal; Long term systemic effects: 83 mg/kg/day</p> <p>Workers - Inhalation; Short term local effects: 101.2 mg/m<sup>3</sup></p> <p>Workers - Inhalation; Long term local effects: 67.5 mg/m<sup>3</sup></p> <p>Consumer - Inhalation; Short term local effects: 60.7 mg/m<sup>3</sup></p> <p>Consumer - Inhalation; Long term systemic effects: 40.5 mg/m<sup>3</sup></p> <p>Consumer - Dermal; Long term systemic effects: 50 mg/kg/day</p> <p>Consumer - Oral; Long term systemic effects: 5 mg/kg/day</p> <p>Consumer - Inhalation; Long term local effects: 40.5 mg/m<sup>3</sup></p>
PNEC	<p>- Fresh water; 1.1 mg/l</p> <p>- marine water; 0.11 mg/l</p> <p>- Intermittent release; 11 mg/l</p> <p>- Sediment (Freshwater); 4.4 mg/kg</p> <p>- Sediment (Marinewater); 0.44 mg/kg</p> <p>- STP; 200 mg/l</p> <p>- Soil; 0.32 mg/kg</p>

### Amides, C8-18 (even numbered) and C18-unsatd., N,N-bis(hydroxyethyl) (CAS: 68155-07-7)

DNEL	<p>Industry - Dermal; Long term systemic effects: 4.16 mg/kg/day</p> <p>Industry - Inhalation; Long term systemic effects: 73.4 mg/m<sup>3</sup></p> <p>Consumer - Inhalation; Long term systemic effects: 21.73 mg/m<sup>3</sup></p> <p>Consumer - Dermal; Long term systemic effects: 2.5 mg/kg/day</p> <p>Consumer - Oral; Long term systemic effects: 6.25 mg/kg/day</p>
PNEC	<p>Fresh water; 0.0024 mg/l</p> <p>marine water; 0.00024 mg/l</p> <p>Intermittent release; 0.024 mg/l</p> <p>Sediment (Freshwater); 0.0145 mg/kg</p> <p>Sediment (Marinewater); 0.0195 mg/kg sediment dw</p> <p>Soil; 0.00648 mg/kg</p> <p>STP; 830 mg/l</p>

### Reaction product of Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. and Benzenesulfonic acid, 4-methyl- and sodium hydroxide

DNEL	<p>Workers - Dermal; Long term systemic effects: 85 mg/kg bw/day</p> <p>Workers - Inhalation; Long term systemic effects: 6 mg/m<sup>3</sup></p> <p>Consumer - Dermal; Long term systemic effects: 42.5 mg/kg bw/day</p> <p>Consumer - Inhalation; Long term systemic effects: 1.5 mg/m<sup>3</sup></p> <p>Consumer - Oral; Long term systemic effects: 0.425 mg/kg bw/day</p>
PNEC	<p>- Fresh water; 0.268 mg/l</p> <p>- marine water; 0.0268 mg/l</p> <p>- Intermittent release; 0.055 mg/l</p> <p>- STP; 5.6 mg/l</p> <p>- Sediment (Freshwater); 8.1 mg/kg dw</p> <p>- Sediment (Marinewater); 8.1 mg/kg dw</p> <p>- Soil; 35 mg/kg dw</p>

### DDBS ACID (CAS: 85536-14-7)

DNEL	<p>Workers - Dermal; Long term systemic effects: 85 mg/kg</p> <p>Workers - Inhalation; Long term systemic effects: 6 mg/m<sup>3</sup></p> <p>Consumer - Dermal; Long term systemic effects: 42.5 mg/kg</p> <p>Consumer - Inhalation; Long term systemic effects: 1.5 mg/m<sup>3</sup></p> <p>Consumer - Oral; Long term systemic effects: 0.425 mg/kg</p>
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PNEC	<p>Fresh water; Long term 0.268 mg/l          marine water; Long term 0.027 mg/l          Intermittent release; Long term 0.017 mg/l          STP; Long term 3.43 mg/l          Sediment (Freshwater); Long term 8.1 mg/kg          Sediment (Marinewater); Long term 6.8 mg/kg          Soil; Long term 35 mg/kg</p>
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### MONOPROPYLENE GLYCOL (CAS: 57-55-6)

DNEL	<p>Workers - Inhalation; Long term systemic effects: 168 mg/m<sup>3</sup>          Workers - Inhalation; Long term local effects: 10 mg/m<sup>3</sup>          General population - Inhalation; Long term systemic effects: 50 mg/m<sup>3</sup>          General population - Inhalation; Long term local effects: 10 mg/m<sup>3</sup>          General population - Dermal; Long term systemic effects: 213 mg/m<sup>3</sup>          General population - Oral; Long term systemic effects: 85 mg/m<sup>3</sup></p>
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PNEC	<p>- Fresh water; 260 mg/l          - marine water; 26 mg/l          - Sediment (Freshwater); 572 mg/l          - Sediment (Marinewater); 57.2 mg/l          - Soil; 50 mg/kg          - STP; 20000 mg/l          Intermittent release; 183 mg/l</p>
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### Fatty acids, C18 unsatd., reaction products with triethanolamine, di-Me sulfate-quaternized

PNEC	<p>Fresh water; 0.00191 mg/l          marine water; 0.000191 mg/l          STP; 2.96 mg/l          Sediment (Freshwater); 0.58 mg/kg dwt          Sediment (Marinewater); 0.058 mg/kg dwt</p>
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## 8.2. Exposure controls

### Protective equipment



Appropriate engineering controls	No specific ventilation requirements.
Eye/face protection	Safety glasses with side-shields (EN 166).
Hand protection	Chemical resistant PVC/Nitrilrubber gloves (to European standard EN 374 or equivalent). Thickness: 0,4 mm. Penetration time: >480 min (level 6). The selection of specific gloves for a specific application and time of use in a working area, should also take into account other factors on the working space, such as (but not limited to): other chemicals that are possibly used, physical requirements (protection against cutting/drilling, skill, thermal protection), and the instructions/specification of the supplier of gloves.
Other skin and body protection	Wear suitable protective clothing (EN14605)
Hygiene measures	Do not eat, drink or smoke when using this product.
Respiratory protection	Respiratory protection must be used if the airborne contamination exceeds the recommended occupational exposure limit.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Appearance	Liquid.
Colour	Yellow.

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Odour	Characteristic.
pH	pH (concentrated solution): 6.5-7.5
Initial boiling point and range	>100°C @ 760 mm Hg
Flash point	> 61°C Closed cup.
Relative density	0.97-1.03 @ 20°C
Solubility(ies)	Soluble in water.
Auto-ignition temperature	>200°C
Viscosity	90 cP @ 20°C

### 9.2. Other information

Other information	Not determined.
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## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Reactivity	There are no known reactivity hazards associated with this product.
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### 10.2. Chemical stability

Stability	Stable at normal ambient temperatures and when used as recommended.
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### 10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	No potentially hazardous reactions known.
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### 10.4. Conditions to avoid

Conditions to avoid	Avoid contact with the following materials: Oxidising agents. Reducing agents.
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### 10.5. Incompatible materials

Materials to avoid	Strong oxidising agents. Strong reducing agents.
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### 10.6. Hazardous decomposition products

Hazardous decomposition products	Does not decompose when used and stored as recommended. Thermal decomposition or combustion products may include the following substances: Harmful gases or vapours.
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## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Toxicological effects	Not regarded as a health hazard under current legislation.
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#### Acute toxicity - oral

Notes (oral LD <sub>50</sub> )	Based on available data the classification criteria are not met.
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ATE oral (mg/kg)	6,284.19
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#### Acute toxicity - dermal

Notes (dermal LD <sub>50</sub> )	Based on available data the classification criteria are not met.
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#### Acute toxicity - inhalation

Notes (inhalation LC <sub>50</sub> )	Based on available data the classification criteria are not met.
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#### Skin corrosion/irritation

Skin corrosion/irritation	Causes skin irritation.
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#### Serious eye damage/irritation

Serious eye damage/irritation	Causes serious eye damage.
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#### Respiratory sensitisation

Respiratory sensitisation	Based on available data the classification criteria are not met.
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### Skin sensitisation

Skin sensitisation Based on available data the classification criteria are not met.

### Germ cell mutagenicity

Genotoxicity - in vitro Based on available data the classification criteria are not met.

### Carcinogenicity

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

### IARC carcinogenicity

None of the ingredients are listed or exempt.

### Reproductive toxicity

Reproductive toxicity - fertility Based on available data the classification criteria are not met.

### Reproductive toxicity - development

Based on available data the classification criteria are not met.

### Specific target organ toxicity - single exposure

STOT - single exposure Not classified as a specific target organ toxicant after a single exposure.

### Specific target organ toxicity - repeated exposure

STOT - repeated exposure Not classified as a specific target organ toxicant after repeated exposure.

### Aspiration hazard

Aspiration hazard Based on available data the classification criteria are not met.

### General information

The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

### Inhalation

Spray/mists may cause respiratory tract irritation. This is unlikely to occur but symptoms similar to those of ingestion may develop.

### Ingestion

Ingestion may cause severe irritation of the mouth, the oesophagus and the gastrointestinal tract.

### Skin contact

Irritating to skin.

### Eye contact

Risk of serious damage to eyes. Symptoms following overexposure may include the following: Redness. Pain.

### Acute and chronic health hazards

This product may cause skin and eye irritation. Repeated exposure may cause chronic eye irritation. Mild dermatitis, allergic skin rash.

### Route of exposure

Skin and/or eye contact  
Ingestion

### Toxicological information on ingredients.

#### 2-(2-butoxyethoxy)ethanol

##### Acute toxicity - oral

Acute toxicity oral (LD<sub>50</sub> mg/kg) 2,410.0

Species Mouse

ATE oral (mg/kg) 2,410.0

##### Acute toxicity - dermal

Acute toxicity dermal (LD<sub>50</sub> mg/kg) 2,764.0

Species Rabbit

ATE dermal (mg/kg) 2,764.0

##### Acute toxicity - inhalation



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Acute toxicity inhalation (LC<sub>50</sub> 29.0  
vapours mg/l)

Species Rat

ATE inhalation (vapours mg/l) 29.0

### Polyethyleneglycol 400 Monooleate

Acute toxicity - oral

Acute toxicity oral (LD<sub>50</sub> 2,001.0  
mg/kg)

Species Rat

ATE oral (mg/kg) 2,001.0

### Dodecylbenzenesulphonic acid, compound with 2-aminoethanol (1:1)

Acute toxicity - oral

ATE oral (mg/kg) 500.0

### Amides, C8-18 (even numbered) and C18-unsatd., N,N-bis(hydroxyethyl)

Acute toxicity - oral

Acute toxicity oral (LD<sub>50</sub> 5,001.0  
mg/kg)

Species Rat

ATE oral (mg/kg) 5,001.0

Acute toxicity - dermal

Acute toxicity dermal (LD<sub>50</sub> 2,001.0  
mg/kg)

Species Rat

ATE dermal (mg/kg) 2,001.0

### Reaction product of Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. and Benzenesulfonic acid, 4-methyl- and sodium hydroxide

Acute toxicity - oral

Acute toxicity oral (LD<sub>50</sub> 3,500.0  
mg/kg)

Species Rat

ATE oral (mg/kg) 3,500.0

Acute toxicity - dermal

Acute toxicity dermal (LD<sub>50</sub> 2,001.0  
mg/kg)

Species Rat

Specific target organ toxicity - repeated exposure

STOT - repeated exposure NOAEL 85 mg/kg, Oral, Rat LOAEL 145 mg/kg, Oral, Rat NOAEL 440 mg/kg, Dermal, Mouse

### 2-Propylheptanol, ethoxylated

Acute toxicity - oral

ATE oral (mg/kg) 500.0

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### DDBS ACID

#### Acute toxicity - oral

Acute toxicity oral (LD<sub>50</sub>  
mg/kg) 1,150.0

Species Rat

ATE oral (mg/kg) 1,150.0

#### Acute toxicity - dermal

Acute toxicity dermal (LD<sub>50</sub>  
mg/kg) 2,001.0

Species Rat

ATE dermal (mg/kg) 2,001.0

#### Reproductive toxicity

Reproductive toxicity - fertility Fertility - NOAEL 350 mg/kg, Oral, Rat Fertility - NOAEL 350 mg/kg, Oral, Rat F1

#### Specific target organ toxicity - repeated exposure

STOT - repeated exposure NOAEL 85 mg/kg, Oral, Rat LOAEL 145 mg/kg, Oral, Rat

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#### Acute toxicity - oral

Acute toxicity oral (LD<sub>50</sub>  
mg/kg) 20,000.0

Species Rat

ATE oral (mg/kg) 20,000.0

#### Acute toxicity - dermal

Acute toxicity dermal (LD<sub>50</sub>  
mg/kg) 20,800.0

Species Rabbit

ATE dermal (mg/kg) 20,800.0

#### Acute toxicity - inhalation

Acute toxicity inhalation (LC<sub>50</sub>  
dust/mist mg/l) 317.042

Species Rat

ATE inhalation (dusts/mists  
mg/l) 317.042

#### Fatty acids, C18 unsatd., reaction products with triethanolamine, di-Me sulfate-quaternized

#### Acute toxicity - oral

Acute toxicity oral (LD<sub>50</sub>  
mg/kg) 2,001.0

Species Rat

ATE oral (mg/kg) 2,001.0

#### Acute toxicity - dermal

Acute toxicity dermal (LD<sub>50</sub>  
mg/kg) 2,001.0

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Species	Rat
ATE dermal (mg/kg)	2,001.0
Reproductive toxicity	
Reproductive toxicity - fertility	Fertility - NOAEL 1000 mg/kg, Oral, Rat

### SECTION 12: Ecological information

**Ecotoxicity** Dangerous for the environment if discharged into watercourses. Harmful to aquatic life with long lasting effects.

#### 12.1. Toxicity

**Toxicity** Harmful to aquatic life with long lasting effects.

Ecological information on ingredients.

#### 2-(2-butoxyethoxy)ethanol

##### Acute aquatic toxicity

Acute toxicity - fish	LC <sub>50</sub> , 96 hours: 2700 mg/l, Fish LC <sub>50</sub> , 96 hours: 1300 mg/l, Lepomis macrochirus (Bluegill)
Acute toxicity - aquatic invertebrates	EC <sub>50</sub> , 48 hours: >100 mg/l, Daphnia magna
Acute toxicity - aquatic plants	ECr <sub>50</sub> , 96 hours: > 100 mg/l, Scenedesmus subspicatus EyC <sub>50</sub> , 96 hours: > 100 mg/l, Scenedesmus subspicatus
Acute toxicity - microorganisms	EC <sub>10</sub> , 0.5 hour: > 1995 mg/l, Activated sludge EC <sub>50</sub> , : 255 mg/l, Activated sludge

#### Polyethyleneglycol 400 Monooleate

##### Acute aquatic toxicity

Acute toxicity - fish	LC <sub>50</sub> , 96 hours: >100 mg/l, Carassius auratus (Goldfish)
Acute toxicity - aquatic plants	EC <sub>50</sub> , 48 hours: >100 mg/l, Algae

#### Amides, C8-18 (even numbered) and C18-unsatd., N,N-bis(hydroxyethyl)

##### Acute aquatic toxicity

Acute toxicity - fish	LC <sub>50</sub> , 96 hours: 2.4 mg/l, Oncorhynchus mykiss (Rainbow trout) LC <sub>50</sub> , 96 hours: 4.9 mg/l, Brachydanio rerio (Zebra Fish)
Acute toxicity - aquatic invertebrates	EC <sub>50</sub> , 48 hours: 3.2 mg/l, Daphnia magna
Acute toxicity - aquatic plants	EC <sub>50</sub> , 72 hours: 3.9 mg/l, Scenedesmus subspicatus
Chronic aquatic toxicity	
Chronic toxicity - fish early life stage	NOEC, 28 days: 0.32 mg/l, Oncorhynchus mykiss (Rainbow trout) LOEC, 28 days: 1 mg/l, Oncorhynchus mykiss (Rainbow trout)
Chronic toxicity - aquatic invertebrates	NOEC, 21 days: 0.07 mg/l, Daphnia magna

#### Reaction product of Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. and Benzenesulfonic acid, 4-methyl- and sodium hydroxide

##### Acute aquatic toxicity

Acute toxicity - fish	LC <sub>50</sub> , 96 hours: >1-10 mg/l, Cyprinus carpio (Common carp)
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Acute toxicity - aquatic invertebrates	EC <sub>50</sub> , 48 hours: >1-10 mg/l, Daphnia magna
Acute toxicity - aquatic plants	EC <sub>50</sub> , 72 hours: >10-100 mg/l, Desmodemus subspicatus EC <sub>10</sub> , 72 hours: 1.5 mg/l, Desmodemus subspicatus
Acute toxicity - microorganisms	EC <sub>50</sub> , 17 hours: 63 mg/l, PSEUDOMONAS PUTIDA
Chronic aquatic toxicity	
Chronic toxicity - fish early life stage	NOEC, 72 days: >0.1-1 mg/l, Oncorhynchus mykiss (Rainbow trout)
Chronic toxicity - aquatic invertebrates	EC <sub>20</sub> , 32 days: 0.27 mg/l, Corbicula

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Acute aquatic toxicity	
Acute toxicity - fish	LC <sub>50</sub> , 96 hours: >1-10 mg/l, Lepomis macrochirus (Bluegill)
Acute toxicity - aquatic invertebrates	EC <sub>50</sub> , 48 hours: >1-10 mg/l, Daphnia magna
Acute toxicity - aquatic plants	NOEC, 28 days: >4 mg/l, Elodea canadensis
Acute toxicity - terrestrial	LC <sub>50</sub> , 14 days: >1000 mg/kg, Eisenia Fetida (Earthworm) EC <sub>50</sub> , 21 days: 167 mg/kg, Sorghum bicolor (sorghum) EC <sub>50</sub> , 21 days: 289 mg/kg, Helianthis annuus EC <sub>50</sub> , 21 days: 316 mg/kg, Phaseolus aureus
Chronic aquatic toxicity	
Chronic toxicity - fish early life stage	NOEC, 28 days: 1 mg/l, Lepomis macrochirus (Bluegill)
Chronic toxicity - aquatic invertebrates	NOEC, 32 days: >1-10 mg/l, Elimia

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Acute aquatic toxicity	
Acute toxicity - fish	LC <sub>50</sub> , 96 hours: 51600 mg/l, Oncorhynchus mykiss (Rainbow trout) LC <sub>50</sub> , 96 hours: 51400 mg/l, Pimephales promelas (Fat-head Minnow)
Acute toxicity - aquatic invertebrates	EC <sub>50</sub> , 48 hours: >1000 mg/l, Daphnia magna
Acute toxicity - aquatic plants	EC <sub>50</sub> , 96 hours: 19000 mg/l, Pseudokirchneriella subcapitata
Acute toxicity - microorganisms	NOEC, 18 hours: >20000 mg/l, PSEUDOMONAS PUTIDA
Chronic aquatic toxicity	
Chronic toxicity - aquatic invertebrates	NOEC, 7 days: 13020 mg/l, Ceriodaphnia Dubia (Water flea)

### Fatty acids, C18 unsatd., reaction products with triethanolamine, di-Me sulfate-quaternized

Acute aquatic toxicity	
Acute toxicity - fish	LC <sub>50</sub> , 96 hours: 1.91 mg/l, Fish
Acute toxicity - aquatic invertebrates	EC <sub>50</sub> , 48 hours: 2.23 mg/l, Daphnia

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Acute toxicity - aquatic plants EC<sub>50</sub>, 72 hours: 2.14 mg/l, Algae

### 12.2. Persistence and degradability

Persistence and degradability The surfactant(s) contained in this product complies(comply) with the biodegradability criteria as laid down in The Detergents Regulations (as amended).

#### Ecological information on ingredients.

##### 2-(2-butoxyethoxy)ethanol

Persistence and degradability The product is biodegradable. >70% Readily biodegradable

Biodegradation OECD 302B - Degradation 100%: 28 days

##### Sorbitan oleate

Persistence and degradability The product is biodegradable.

##### Polyethyleneglycol 400 Monooleate

Persistence and degradability Easily biodegradable

Biodegradation - 60%: > 28 days

##### Amides, C8-18 (even numbered) and C18-unsatd., N,N-bis(hydroxyethyl)

Persistence and degradability This surfactant complies with the biodegradability criteria as laid down in The Detergents Regulations (as amended).

##### Reaction product of Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. and Benzenesulfonic acid, 4-methyl- and sodium hydroxide

Biodegradation OECD 301A - Degradation >70%: 28 days

##### DDBS ACID

Biodegradation - >70%: 28 days

##### MONOPROPYLENE GLYCOL

Biodegradation OECD 301F - Degradation >81%: 28 days  
- Degradation 96%: 64 days

Biological oxygen demand 1170 mg O<sub>2</sub>/l

Chemical oxygen demand 4700 mg O<sub>2</sub>/l

##### Fatty acids, C18 unsatd., reaction products with triethanolamine, di-Me sulfate-quaternized

Biodegradation - >70%: 56 days

### 12.3. Bioaccumulative potential

Bioaccumulative potential The product does not contain any substances expected to be bioaccumulating.

#### Ecological information on ingredients.

##### 2-(2-butoxyethoxy)ethanol

Bioaccumulative potential The product does not contain any substances expected to be bioaccumulating.

Partition coefficient log Pow: 1.00

##### Sorbitan oleate

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Bioaccumulative potential No potential for bioaccumulation.

Amides, C8-18 (even numbered) and C18-unsatd., N,N-bis(hydroxyethyl)

Partition coefficient log Pow: 4.84

DDBS ACID

Partition coefficient log Kow: 2500

MONOPROPYLENE GLYCOL

Bioaccumulative potential BCF: < 0.09,

Partition coefficient log Pow: -1.07

### 12.4. Mobility in soil

Mobility Soluble in water.

### Ecological information on ingredients.

2-(2-butoxyethoxy)ethanol

Adsorption/desorption coefficient - Koc: 2 @ 20°C

MONOPROPYLENE GLYCOL

Adsorption/desorption coefficient - Koc: 2.9 @ 20°C - Log Koc: 0.46 @ 20°C

Henry's law constant 0.00566 atm m<sup>3</sup>/mol @ 12°C

### 12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment This product does not contain any substances classified as PBT or vPvB.

### Ecological information on ingredients.

2-(2-butoxyethoxy)ethanol

Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current UK criteria.

Sorbitan oleate

Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current UK criteria.

Fatty acids, C18 unsatd., reaction products with triethanolamine, di-Me sulfate-quaternized

Results of PBT and vPvB assessment This product does not contain any substances classified as PBT or vPvB.

### 12.6. Other adverse effects

Other adverse effects None known.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Disposal methods Dispose of in accordance with Local Authority regulations as special waste according to The Control of Special Waste Regulations 1996.

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EURAL Code

## SECTION 14: Transport information

**General** The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

### 14.1. UN number

Not applicable.

### 14.2. UN proper shipping name

Not applicable.

### 14.3. Transport hazard class(es)

No transport warning sign required.

### 14.4. Packing group

Not applicable.

### 14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant  
No.

### 14.6. Special precautions for user

Not applicable.

### 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

## SECTION 15: Regulatory information

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

Drug Precursors Regulation  
(273/2004)

Danish product registration  
number

Danish national regulations

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

### Inventories

EU - EINECS/ELINCS

None of the ingredients are listed or exempt.

## SECTION 16: Other information

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**Abbreviations and acronyms used in the safety data sheet**

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.  
 ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.  
 RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail.  
 IATA: International Air Transport Association.  
 ICAO: Technical Instructions for the Safe Transport of Dangerous Goods by Air.  
 IMDG: International Maritime Dangerous Goods.  
 CAS: Chemical Abstracts Service.  
 ATE: Acute Toxicity Estimate.  
 LC50: Lethal Concentration to 50 % of a test population.  
 LD50: Lethal Dose to 50% of a test population (Median Lethal Dose).  
 EC<sub>50</sub>: 50% of maximal Effective Concentration.  
 PBT: Persistent, Bioaccumulative and Toxic substance.  
 vPvB: Very Persistent and Very Bioaccumulative.

<b>Revision comments</b>	Revision is due to change of UFI number Revision is due to general MSDS review
<b>Revision date</b>	18/03/2024
<b>Revision</b>	7
<b>Supersedes date</b>	27/10/2022
<b>SDS number</b>	7867/21469
<b>Hazard statements in full</b>	H302 Harmful if swallowed. H315 Causes skin irritation. H318 Causes serious eye damage. H319 Causes serious eye irritation. H411 Toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects.

This 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. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.