



## SAFETY DATA SHEET

### Sultrasoft HC

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	Sultrasoft HC
Product number	7870/21464
UFI	UFI: XNSP-M0RQ-C001-YNGQ

##### 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	Christeyns NV: Tel: +32 9 223 38 71 (Mon-Fri 8am-4pm)
National emergency telephone number	(DE) Giftnotruf Berlin +49 30 19240 (24h erreichbar) (DE) Giftnotruf Berlin +49 (0)30 30686 790 (CH) STIZ, tel. 145 (CH) Centre suisse d'information toxicologique: +41.(0)1.251.51.51 (AT) Vergiftungsinformationszentrale: +43 1 40 400 2222 worldwide: <a href="http://www.who.int/ipcs/poisons/centre/directory/en">http://www.who.int/ipcs/poisons/centre/directory/en</a> (FR) CENTRE ANTI-POISON France: +33 45 42 59 59 ORFILA (INRS) (FR) CENTRE ANTI-POISON Nancy: +33 (03) 83 26 36 36 (FI) Myrkytystietokeskus +358 9 471 977 (BE) Belgisch Antigifcentrum/Centre Antipoisons Belge : +32 70 245 245 (ES) Teléfono Instituto Nacional de Toxicología: 915 620 420 (GB) NHS 111 (IT) Centro Antiveleni, Ospedale Niguarda Milano: +39 02 6610 1029 (CZ) Toxikologické informační středisko, Klinika pracovního lékařství VFN a 1. LF UK, Na Bojišti 1, 120 00 Praha 2: +420 224 919 293, +420 224 915 402 (SK) Národné toxikologické informačné centrum, Univerzitná nemocnica Bratislava, pracovisko Kramáre, Klinika pracovného lekárstva a toxikológie, Limbová 5, 833 05 Bratislava : +421 2 54 77 41 66 NHS Direct 111 (GB)

#### SECTION 2: Hazards identification

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

## Sultrasoft HC

### Classification (SI 2019 No. 720)

Physical hazards	Not Classified
Health hazards	Eye Dam. 1 - H318
Environmental hazards	Not Classified

### 2.2. Label elements

#### Hazard pictograms



Signal word	Danger
Hazard statements	H318 Causes serious eye damage.
Precautionary statements	P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 Immediately call a POISON CENTER/ doctor.
Contains	Quaternary ammonium compounds, benzyl (C12 - C16) alkyl dimethyl, chlorides
Detergent labelling	15 - < 30% aliphatic hydrocarbons, 5 - < 15% non-ionic surfactants, < 5% cationic surfactants, < 5% perfumes, Contains BENZYL SALICYLATE, HEXYL CINNAMAL

### 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	15-30%
CAS number: 112-34-5	EC number: 203-961-6
<b>Classification</b> Eye Irrit. 2 - H319	
Isotridecanol,ethoxylated (>7 - <15 EO)	10-15%
CAS number: 69011-36-5	EC number: 931-138-8
<b>Classification</b> Eye Irrit. 2 - H319 Aquatic Chronic 3 - H412	
Fatty acids, C18 unsatd., reaction products with triethanolamine, di-Me sulfate-quaternized	5-10%
CAS number: —	EC number: 931-216-1
<b>Classification</b> Skin Irrit. 2 - H315 Eye Irrit. 2 - H319	

## Sultrasoft HC

<p>Quaternary ammonium compounds, benzyl (C12 - C16) alkyl dimethyl, chlorides <span style="float: right;">1-3%</span></p> <p>CAS number: 68424-85-1                      EC number: 270-325-2</p> <p>M factor (Acute) = 10                              M factor (Chronic) = 1</p>
<p><b>Classification</b></p> <p>Acute Tox. 4 - H302  Skin Corr. 1B - H314  Eye Dam. 1 - H318  Aquatic Acute 1 - H400  Aquatic Chronic 1 - H410</p>
<p>SODIUM HYDROXIDE <span style="float: right;">&lt;1%</span></p> <p>CAS number: 1310-73-2                      EC number: 215-185-5</p>
<p><b>Classification</b></p> <p>Met. Corr. 1 - H290  Skin Corr. 1A - H314  Eye Dam. 1 - H318</p>
<p>BENZYL SALICYLATE <span style="float: right;">0.019%</span></p> <p>CAS number: 118-58-1                      EC number: 204-262-9</p>
<p><b>Classification</b></p> <p>Eye Irrit. 2 - H319  Skin Sens. 1B - H317  Aquatic Chronic 3 - H412</p>
<p><i>a</i>-hexylcinnamaldehyde <span style="float: right;">0.019%</span></p> <p>CAS number: 101-86-0                      EC number: 202-983-3</p> <p>M factor (Acute) = 1</p>
<p><b>Classification</b></p> <p>Skin Sens. 1B - H317  Aquatic Acute 1 - H400  Aquatic Chronic 2 - H411</p>
<p><i>d</i>-LIMONENE <span style="float: right;">0.0051%</span></p> <p>CAS number: 5989-27-5                      EC number: 227-813-5</p> <p>M factor (Acute) = 1                              M factor (Chronic) = 1</p>
<p><b>Classification</b></p> <p>Flam. Liq. 3 - H226  Skin Irrit. 2 - H315  Skin Sens. 1 - H317  Aquatic Acute 1 - H400  Aquatic Chronic 1 - H410</p>

## Sultrasoft HC

Alpha-IsoMethyl Ionone	0.0051%
CAS number: 127-51-5	EC number: 204-846-3
<b>Classification</b> Aquatic Chronic 2 - H411	
COUMARIN	0.0051%
CAS number: 91-64-5	EC number: 202-086-7
<b>Classification</b> Acute Tox. 4 - H302 Skin Sens. 1B - H317 Aquatic Chronic 3 - H412	
Linalool	0.0015%
CAS number: 78-70-6	EC number: 201-134-4
<b>Classification</b> Skin Sens. 1B - H317	
EUGENOL	0.0015%
CAS number: 97-53-0	EC number: 202-589-1
<b>Classification</b> Eye Irrit. 2 - H319 Skin Sens. 1B - H317	
CITRONELLOL	0.0015%
CAS number: 106-22-9	EC number: 203-375-0
<b>Classification</b> Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Skin Sens. 1B - H317	
Diphenyl Ether	<1%
CAS number: 101-84-8	EC number: 202-981-2
M factor (Acute) = 1	
<b>Classification</b> Eye Irrit. 2 - H319 Aquatic Acute 1 - H400 Aquatic Chronic 3 - H412	

## Sultrasoft HC

<b>TURPENTINE, OIL</b>	<b>&lt;1%</b>
CAS number: 8006-64-2	EC number: 932-349-8
<b>Classification</b> Flam. Liq. 3 - H226 Acute Tox. 4 - H302 Acute Tox. 4 - H312 Acute Tox. 4 - H332 Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Skin Sens. 1 - H317 Asp. Tox. 1 - H304 Aquatic Chronic 2 - H411	
<b>Beta Pinene</b>	<b>&lt;1%</b>
CAS number: 127-91-3	EC number: 204-872-5
<b>Classification</b> Flam. Liq. 3 - H226 Skin Irrit. 2 - H315 Skin Sens. 1 - H317 Asp. Tox. 1 - H304	
<b>Alpha Pinene</b>	<b>&lt;1%</b>
CAS number: 80-56-8	EC number: 201-291-9
M factor (Acute) = 1	M factor (Chronic) = 1
<b>Classification</b> Flam. Liq. 3 - H226 Acute Tox. 4 - H302 Skin Irrit. 2 - H315 Skin Sens. 1 - H317 Asp. Tox. 1 - H304 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410	
<b>ISOPENTYL ACETATE</b>	<b>&lt;1%</b>
CAS number: 123-92-2	EC number: 204-662-3
<b>Classification</b> Flam. Liq. 3 - H226	
<b>TOLUENE</b>	<b>&lt;1%</b>
CAS number: 108-88-3	EC number: 203-625-9
<b>Classification</b> Flam. Liq. 2 - H225 Skin Irrit. 2 - H315 Repr. 2 - H361d STOT SE 3 - H336 STOT RE 2 - H373 Asp. Tox. 1 - H304	

The full text for all hazard statements is displayed in Section 16.

## Sultrasoft HC

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

General information	Get medical attention if symptoms are severe or persist. Remove affected person from source of contamination.
Inhalation	Unlikely route of exposure as the product does not contain volatile substances. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing.
Ingestion	Never give anything by mouth to an unconscious person. Do not induce vomiting. Promptly get affected person to drink large volumes of water to dilute the swallowed chemical. Give milk instead of water if readily available. Get medical attention immediately.
Skin contact	Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention promptly if symptoms occur after washing.
Eye contact	Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention immediately. Continue to rinse.

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

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	May cause discomfort if swallowed. May cause stomach pain or vomiting.
Skin contact	May cause skin irritation.
Eye contact	Severe irritation, burning and tearing.

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

Notes for the doctor	Treat symptomatically.
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### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media	The product is not flammable. Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire-extinguishing media suitable for the surrounding fire.
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#### 5.2. Special hazards arising from the substance or mixture

Specific hazards	No unusual fire or explosion hazards noted.
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	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.
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#### 6.2. Environmental precautions

Environmental precautions	Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body.
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#### 6.3. Methods and material for containment and cleaning up

## Sultrasoft HC

**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. Avoid contact with skin and eyes. Keep container tightly sealed when not in use.

**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>

#### SODIUM HYDROXIDE

Short-term exposure limit (15-minute): WEL 2 mg/m<sup>3</sup>

#### Diphenyl Ether

Long-term exposure limit (8-hour TWA): WEL 1 ppm 7 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 2 ppm 14 mg/m<sup>3</sup>

#### TURPENTINE, OIL

Long-term exposure limit (8-hour TWA): WEL 100 ppm 566 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 150 ppm 850 mg/m<sup>3</sup>

#### Beta Pinene

Long-term exposure limit (8-hour TWA): WEL 140 mg/m<sup>3</sup> 25 ppm

Short-term exposure limit: WEL 300 mg/m<sup>3</sup> 50 ppm

#### Alpha Pinene

Long-term exposure limit (8-hour TWA): WEL 140 mg/m<sup>3</sup> 25 ppm

Short-term exposure limit (15-minute): WEL 300 mg/m<sup>3</sup> 50 ppm

#### ISOPENTYL ACETATE

Long-term exposure limit (8-hour TWA): WEL 270 mg/m<sup>3</sup> 50 ppm

Short-term exposure limit: WEL 541 mg/m<sup>3</sup> 100 ppm

#### TOLUENE

Long-term exposure limit (8-hour TWA): WEL 50 ppm(Sk) 191 mg/m<sup>3</sup>(Sk)

Short-term exposure limit: WEL 384 mg/m<sup>3</sup> 100 ppm

WEL = Workplace Exposure Limit.

## Sultrasoft HC

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

**DNEL**

Workers - Inhalation; Long term systemic effects: 67.5 mg/m<sup>3</sup>  
 Workers - Dermal; Long term systemic effects: 83 mg/kg/day  
 Workers - Inhalation; Short term local effects: 101.2 mg/m<sup>3</sup>  
 Workers - Inhalation; Long term local effects: 67.5 mg/m<sup>3</sup>  
 Consumer - Inhalation; Short term local effects: 60.7 mg/m<sup>3</sup>  
 Consumer - Inhalation; Long term systemic effects: 40.5 mg/m<sup>3</sup>  
 Consumer - Dermal; Long term systemic effects: 50 mg/kg/day  
 Consumer - Oral; Long term systemic effects: 5 mg/kg/day  
 Consumer - Inhalation; Long term local effects: 40.5 mg/m<sup>3</sup>

**PNEC**

- Fresh water; 1.1 mg/l
- marine water; 0.11 mg/l
- Intermittent release; 11 mg/l
- Sediment (Freshwater); 4.4 mg/kg
- Sediment (Marinewater); 0.44 mg/kg
- STP; 200 mg/l
- Soil; 0.32 mg/kg

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

**PNEC**

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

### SODIUM HYDROXIDE (CAS: 1310-73-2)

**DNEL**

Consumer - Inhalation; Long term local effects: 1 mg/m<sup>3</sup>  
 Workers - Inhalation; Long term local effects: 1 mg/m<sup>3</sup>  
 Industry - Inhalation; Long term local effects: 1 mg/m<sup>3</sup>

### 2-phenylethanol (CAS: 60-12-8)

**DNEL**

Workers - Inhalation; Long term systemic effects: 59.9 mg/m<sup>3</sup>  
 Workers - Dermal; Long term systemic effects: 21.2 mg/kg  
 General population - Inhalation; Long term systemic effects: 17.7 mg/m<sup>3</sup>  
 General population - Dermal; Long term systemic effects: 12.7 mg/kg  
 General population - Oral; Long term systemic effects: 5.1 mg/kg  
 Workers - Oral; Short term systemic effects: 5.1 mg/kg

### a-hexylcinnamaldehyde (CAS: 101-86-0)

**DNEL**

Workers - Inhalation; Long term systemic effects: 0.078 mg/m<sup>3</sup>  
 Workers - Inhalation; Short term local effects: 6.28 mg/m<sup>3</sup>  
 Workers - Dermal; Long term systemic effects: 18.2 mg/kg bw/day  
 Workers - Dermal; Long term local effects: 0.525 mg/cm<sup>2</sup>  
 Consumer - Inhalation; Long term systemic effects: 0.019 mg/m<sup>3</sup>  
 Consumer - Inhalation; Short term local effects: 4.71 mg/m<sup>3</sup>  
 Consumer - Dermal; Long term systemic effects: 9.11 mg/kg bw/day  
 Consumer - Dermal; Long term local effects: 0.0787 mg/cm<sup>2</sup>  
 Consumer - Dermal; Short term local effects: 0.0787 mg/cm<sup>2</sup>  
 Consumer - Oral; Long term systemic effects: 0.056 mg/kg bw/day



## Sultrasoft HC

**PNEC**

Fresh water; 0.00126 mg/l  
 marine water; 0.000126 mg/l  
 STP; 10 mg/l  
 Sediment (Freshwater); 3.2 mg/kg dwt  
 Sediment (Marinewater); 0.064 mg/kg dwt  
 Soil; 9.51 mg/kg dwt

### Gamma-Undecalactone (CAS: 104-67-6)

**DNEL**

Workers - Inhalation; systemic effects: 19 mg/m<sup>3</sup>  
 Workers - Dermal; Long term systemic effects: 5.38 mg/kg bw/day  
 Consumer - Inhalation; systemic effects: 4.68 mg/m<sup>3</sup>  
 Consumer - Dermal; Long term systemic effects: 2.7 mg/kg bw/day  
 Consumer - Oral; Long term systemic effects: 2.7 mg/kg bw/day

**PNEC**

Fresh water; 17.52 µg/l  
 marine water; 1.75 µg/l  
 STP; 80 mg/l  
 Sediment (Freshwater); 1.882 mg/kg  
 Sediment (Marinewater); 0.188 mg/kg  
 Soil; 0.366 mg/kg

### Tetrahydro Linalool (CAS: 78-69-3)

**DNEL**

Workers - Inhalation; Long term systemic effects: 2.75 mg/m<sup>3</sup>  
 Workers - Dermal; Long term systemic effects: 2.5 mg/kg bw/day  
 Workers - Dermal; Short term local effects: 2.76 mg/cm<sup>2</sup>  
 Consumer - Inhalation; Long term systemic effects: 0.68 mg/m<sup>3</sup>  
 Consumer - Oral; Long term systemic effects: 0.2 mg/kg bw/day  
 Consumer - Dermal; Long term systemic effects: 1.25 mg/kg bw/day  
 Consumer - Dermal; Short term local effects: 2.76 mg/cm<sup>2</sup>

**PNEC**

Fresh water; 0.0089 mg/l  
 marine water; 0.00089 mg/l  
 STP; 450 mg/l  
 Sediment (Freshwater); 0.0821 mg/kg  
 Sediment (Marinewater); 0.00821 mg/kg  
 Soil; 0.0112 mg/kg

### TURPENTINE, OIL (CAS: 8006-64-2)

**DNEL**

Industry - Dermal; local effects: 161000 mg/m<sup>3</sup>  
 Industry - Inhalation; Long term : 5.98 mg/m<sup>3</sup>  
 Consumer - Dermal; local effects: 81000 mg/m<sup>3</sup>  
 Consumer - Inhalation; Long term systemic effects: 1.06 mg/m<sup>3</sup>  
 Consumer - Oral; Long term systemic effects: 0.31

**PNEC**

- Fresh water; 0.0088 mg/l  
 - marine water; 0.00088 mg/l  
 - STP; 6.6 mg/l  
 - Sediment (Freshwater); 2.27 mg/kg  
 - Sediment (Marinewater); 0.277 mg/kg  
 - Soil; 0.45 mg/kg

## 8.2. Exposure controls

### Protective equipment



**Appropriate engineering controls** Provide adequate ventilation if the airborne contamination exceeds occupational exposure limits

## Sultrasoft HC

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	Brown.
Odour	Perfume.
pH	pH (concentrated solution): 6.0 - 7.0
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	280 cP @ 20°C

#### 9.2. Other information

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

#### 10.1. Reactivity

Reactivity	The following materials may react with the product: Oxidising agents. Reducing agents.
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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: 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

## Sultrasoft HC

Toxicological effects	Not regarded as a health hazard under current legislation.
Acute toxicity - oral	
Notes (oral LD <sub>50</sub> )	Based on available data the classification criteria are not met.
ATE oral (mg/kg)	22,083.33
Acute toxicity - dermal	
Notes (dermal LD <sub>50</sub> )	Based on available data the classification criteria are not met.
Acute toxicity - inhalation	
Notes (inhalation LC <sub>50</sub> )	Based on available data the classification criteria are not met.
Skin corrosion/irritation	
Skin corrosion/irritation	May cause skin irritation.
Animal data	Based on available data the classification criteria are not met.
Serious eye damage/irritation	
Serious eye damage/irritation	Causes serious eye damage.
Respiratory sensitisation	
Respiratory sensitisation	Based on available data the classification criteria are not met.
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.

## Sultrasoft HC

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

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

Species                      Rat

ATE inhalation (vapours mg/l)                      29.0

#### Isotridecanol,ethoxylated (>7 - <15 EO)

##### Acute toxicity - oral

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

Species                      Rat

ATE oral (mg/kg)                      5,001.0

##### Acute toxicity - dermal

ATE dermal (mg/kg)                      2,001.0

##### Specific target organ toxicity - repeated exposure

STOT - repeated exposure                      NOAEL 50 mg/kg, Oral, Rat

Target organs                      Heart Liver Kidneys

#### Sorbitan monooleate, ethoxylated

##### Acute toxicity - oral

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

Species                      Rat

ATE oral (mg/kg)                      2,001.0

#### 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

## Sultrasoft HC

Species Rat  
ATE oral (mg/kg) 2,001.0

### 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 1000 mg/kg, Oral, Rat

### Quaternary ammonium compounds, benzyl (C12 - C16) alkyl dimethyl, chlorides

#### Acute toxicity - oral

ATE oral (mg/kg) 500.0

### hexahydro-hexamethyl-cyclopenta-benzopyran

#### Acute toxicity - oral

Acute toxicity oral (LD<sub>50</sub>  
mg/kg) 4,640.0

Species Rat

#### Acute toxicity - dermal

Acute toxicity dermal (LD<sub>50</sub>  
mg/kg) 6,500.0

Species Rabbit

### hexyl-2-hydroxybenzoate

#### Acute toxicity - oral

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

Species Rat

#### Acute toxicity - dermal

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

Species Rabbit

### 2-phenylethanol

#### Acute toxicity - oral

Acute toxicity oral (LD<sub>50</sub>  
mg/kg) 1,790.0

Species Rat

ATE oral (mg/kg) 1,790.0

#### Acute toxicity - dermal

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

Species Rabbit

## Sultrasoft HC

### 4-tertiary-butyl-cyclohexyl-acetate

#### Acute toxicity - oral

Acute toxicity oral (LD<sub>50</sub>  
mg/kg) 5,000.0

Species Rat

ATE oral (mg/kg) 5,000.0

#### Acute toxicity - dermal

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

Species Rabbit

ATE dermal (mg/kg) 5,001.0

### BENZYL SALICYLATE

#### Acute toxicity - oral

Acute toxicity oral (LD<sub>50</sub>  
mg/kg) 2,227.0

Species Rat

#### Acute toxicity - dermal

Acute toxicity dermal (LD<sub>50</sub>  
mg/kg) 14,150.0

Species Rabbit

### a-hexylcinnamaldehyde

#### Acute toxicity - oral

Acute toxicity oral (LD<sub>50</sub>  
mg/kg) 3,100.0

Species Rat

#### Acute toxicity - dermal

Acute toxicity dermal (LD<sub>50</sub>  
mg/kg) 3,001.0

Species Rabbit

ATE dermal (mg/kg) 3,001.0

### 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-naphthyl)Ethan-1-one

#### Acute toxicity - oral

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

Species Rat

#### Acute toxicity - dermal

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

Species Rabbit

ATE dermal (mg/kg) 5,001.0

## Sultrasoft HC

### Butylphenyl Methylpropional

#### Acute toxicity - oral

Acute toxicity oral (LD<sub>50</sub>  
mg/kg) 1,390.0

Species Rat

ATE oral (mg/kg) 500.0

#### Acute toxicity - dermal

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

Species Rabbit

### d-LIMONENE

#### Acute toxicity - oral

Acute toxicity oral (LD<sub>50</sub>  
mg/kg) 4,400.0

Species Rat

#### Acute toxicity - dermal

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

Species Rabbit

#### Carcinogenicity

IARC carcinogenicity IARC Group 3 Not classifiable as to its carcinogenicity to humans.

### Alpha-IsoMethyl Ionone

#### Acute toxicity - oral

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

Species Rat

#### Acute toxicity - dermal

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

Species Rabbit

### Benzyl acetate

#### Acute toxicity - oral

Acute toxicity oral (LD<sub>50</sub>  
mg/kg) 2,490.0

Species Rat

ATE oral (mg/kg) 2,490.0

#### Carcinogenicity

IARC carcinogenicity IARC Group 3 Not classifiable as to its carcinogenicity to humans.

### 2,6-Dimethyl-7-octen-2-ol

#### Acute toxicity - oral

## Sultrasoft HC

Acute toxicity oral (LD<sub>50</sub>  
mg/kg) 3,600.0

Species Rat

ATE oral (mg/kg) 3,600.0

### Acute toxicity - dermal

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

Species Rabbit

## COUMARIN

### Acute toxicity - oral

Acute toxicity oral (LD<sub>50</sub>  
mg/kg) 520.0

Species Rat

ATE oral (mg/kg) 520.0

### Carcinogenicity

IARC carcinogenicity IARC Group 3 Not classifiable as to its carcinogenicity to humans.

## Linalool

### Acute toxicity - oral

Acute toxicity oral (LD<sub>50</sub>  
mg/kg) 2,790.0

Species Rat

### Acute toxicity - dermal

Acute toxicity dermal (LD<sub>50</sub>  
mg/kg) 2,000.0

Species Rabbit

## METHYLUNDECANAL

### Acute toxicity - oral

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

Species Rat

### Acute toxicity - dermal

Acute toxicity dermal (LD<sub>50</sub>  
mg/kg) 10,001.0

Species Rabbit

## Vanillin

### Acute toxicity - oral

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

Species Rat

### Acute toxicity - dermal



## Sultrasoft HC

Acute toxicity dermal (LD<sub>50</sub>  
mg/kg) 5,010.0

Species Rabbit

ATE dermal (mg/kg) 5,010.0

### a,a-Dimethylphenethyl Acetate

Acute toxicity - oral

Acute toxicity oral (LD<sub>50</sub>  
mg/kg) 3,300.0

Species Rat

Acute toxicity - dermal

Acute toxicity dermal (LD<sub>50</sub>  
mg/kg) 3,001.0

Species Rabbit

### Gamma-Undecalactone

Acute toxicity - oral

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

Species Rat

Acute toxicity - dermal

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

Species Rabbit

ATE dermal (mg/kg) 2,001.0

### Tetrahydro Linalool

Acute toxicity - oral

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

Species Rat

Acute toxicity - dermal

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

Species Rabbit

### 2-methyl-3-(4-isopropylphenyl) propanal

Acute toxicity - oral

Acute toxicity oral (LD<sub>50</sub>  
mg/kg) 3,810.0

Species Rat

Acute toxicity - dermal

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

Species Rat

## Sultrasoft HC

### 2-Tertiary-Butylcyclohexylacetate

#### Acute toxicity - oral

Acute toxicity oral (LD<sub>50</sub>  
mg/kg) 4,600.0

Species Rat

ATE oral (mg/kg) 4,600.0

#### Acute toxicity - dermal

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

Species Rabbit

ATE dermal (mg/kg) 5,001.0

#### Specific target organ toxicity - repeated exposure

STOT - repeated exposure NOAEL 468.5 mg/kg, Oral, Rat

### Heliotropine

#### Acute toxicity - oral

Acute toxicity oral (LD<sub>50</sub>  
mg/kg) 2,700.0

Species Rat

#### Acute toxicity - dermal

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

Species Rat

ATE dermal (mg/kg) 5,001.0

### EUGENOL

#### Acute toxicity - oral

Acute toxicity oral (LD<sub>50</sub>  
mg/kg) 2,130.0

Species Guinea pig

ATE oral (mg/kg) 2,130.0

#### Carcinogenicity

IARC carcinogenicity IARC Group 3 Not classifiable as to its carcinogenicity to humans.

### CITRONELLOL

#### Acute toxicity - oral

Acute toxicity oral (LD<sub>50</sub>  
mg/kg) 3,450.0

Species Rat

#### Acute toxicity - dermal

Acute toxicity dermal (LD<sub>50</sub>  
mg/kg) 2,650.0

Species Rabbit

## Sultrasoft HC

### 3a,4,5,6,7,7a-Hexahydro-4,7-Methano-1(3)-Inden-6-yl-Acetate

#### Acute toxicity - oral

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

Species Rat

#### Acute toxicity - dermal

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

Species Rabbit

### BETA-IONONE

#### Acute toxicity - oral

Acute toxicity oral (LD<sub>50</sub>  
mg/kg) 4,590.0

Species Rat

### Isobutenyl methyltetrahydropyran

#### Acute toxicity - oral

Acute toxicity oral (LD<sub>50</sub>  
mg/kg) 4,300.0

Species Rat

#### Acute toxicity - dermal

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

Species Rabbit

### Diphenyl Ether

#### Acute toxicity - oral

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

Species Rat

#### Acute toxicity - dermal

Acute toxicity dermal (LD<sub>50</sub>  
mg/kg) 7,941.0

Species Rabbit

### TURPENTINE, OIL

#### Acute toxicity - oral

ATE oral (mg/kg) 500.0

#### Acute toxicity - dermal

ATE dermal (mg/kg) 1,100.0

#### Acute toxicity - inhalation

Acute toxicity inhalation (LC<sub>50</sub>  
vapours mg/l) 13.7

ATE inhalation (vapours mg/l) 13.7

## Sultrasoft HC

### Alpha Pinene

#### Acute toxicity - oral

ATE oral (mg/kg) 500.0

## SECTION 12: Ecological information

**Ecotoxicity** Not regarded as dangerous for the environment. However, large or frequent spills may have hazardous effects on the environment.

### 12.1. Toxicity

**Toxicity** Not considered toxic to fish.

#### 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

#### Isotridecanol,ethoxylated (>7 - <15 EO)

##### Acute aquatic toxicity

Acute toxicity - fish LC<sub>50</sub>, 96 hours: >1-10 mg/l, Cyprinus carpio (Common carp)

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: >1-10 mg/l, Desmodesmus subspicatus  
EC<sub>10</sub>, 72 hours: 0.6 mg/l, Desmodesmus subspicatus

Acute toxicity - microorganisms EC<sub>50</sub>, : 140 mg/l, Activated sludge

Acute toxicity - terrestrial NOEC, : 220 mg/kg, Eisenia Fetida (Earthworm)

##### Chronic aquatic toxicity

Chronic toxicity - fish early life stage NOEC, : 1.73 mg/l,

Chronic toxicity - aquatic invertebrates NOEC, 21 days: 1.36 mg/l, Daphnia magna

#### Sorbitan monooleate, ethoxylated

##### Acute aquatic toxicity

Acute toxicity - fish LC<sub>50</sub>, 96 hours: >100 mg/kg, Carassius auratus (Goldfish)

Acute toxicity - aquatic invertebrates EC<sub>50</sub>, 48 hours: >100 mg/kg, Daphnia magna

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

##### Acute aquatic toxicity

## Sultrasoft HC

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

### Quaternary ammonium compounds, benzyl (C12 - C16) alkyl dimethyl, chlorides

#### Acute aquatic toxicity

LE(C) <sub>50</sub>	0.01 < L(E)C50 ≤ 0.1
M factor (Acute)	10
Acute toxicity - fish	LC <sub>50</sub> , 96 hours: 0.85 mg/l, Oncorhynchus mykiss (Rainbow trout) NOEC, 28 days: 0.0322 mg/l, Pimephales promelas (Fat-head Minnow)
Acute toxicity - aquatic invertebrates	EC <sub>50</sub> , 48 hours: 0.016 mg/l, Daphnia NOEC, 21 days: 0.025 mg/l, Daphnia
Acute toxicity - aquatic plants	EC10, 72 hours: 0.0025 mg/l, Selenastrum capricornutum EC <sub>50</sub> , 72 hours: 0.02 mg/l, Selenastrum capricornutum
Acute toxicity - microorganisms	EC <sub>20</sub> , 0.5 hours: 5 mg/l, Activated sludge

#### Chronic aquatic toxicity

M factor (Chronic)	1
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### SODIUM HYDROXIDE

#### Acute aquatic toxicity

Acute toxicity - fish	LC <sub>50</sub> , 96 hours: 35-189 mg/l, Fish
Acute toxicity - aquatic invertebrates	EC <sub>50</sub> , 48 hours: 40.4 mg/l, Ceriodaphnia Dubia (Water flea)

### hexahydro-hexamethyl-cyclopenta-benzopyran

#### Acute aquatic toxicity

LE(C) <sub>50</sub>	0.1 < L(E)C50 ≤ 1
M factor (Acute)	1
Acute toxicity - aquatic invertebrates	EC <sub>50</sub> , 48 hours: 0.9 mg/l, Daphnia
Acute toxicity - aquatic plants	IC <sub>80</sub> , 72 hours: >0.854 mg/l, Algae
Chronic aquatic toxicity	
M factor (Chronic)	1

### hexyl-2-hydroxybenzoate

#### Acute aquatic toxicity

LE(C) <sub>50</sub>	0.1 < L(E)C50 ≤ 1
M factor (Acute)	1
Acute toxicity - fish	LC <sub>50</sub> , 96 hours: >100 mg/l, Brachydanio rerio (Zebra Fish)
Acute toxicity - aquatic invertebrates	EC <sub>50</sub> , 48 hours: 0.357 mg/l, Daphnia magna EC <sub>50</sub> , 96 hours: 0.39 mg/l, Daphnia magna, Freshwater invertebrates, Marinewater invertebrates

## Sultrasoft HC

Acute toxicity - aquatic plants EC<sub>50</sub>, 72 hours: 0.61 mg/l, Pseudokirchneriella subcapitata

### Chronic aquatic toxicity

M factor (Chronic) 1

### a-hexylcinnamaldehyde

### Acute aquatic toxicity

LE(C)<sub>50</sub> 0.1 < L(E)C<sub>50</sub> ≤ 1

M factor (Acute) 1

Acute toxicity - fish LC<sub>50</sub>, 96 hours: 1.7 mg/l, Fish  
LC<sub>50</sub>, 96 hours: 3.1 mg/l, Brachydanio rerio (Zebra Fish)

Acute toxicity - aquatic invertebrates EC<sub>50</sub>, 48 hours: 3.86 mg/l, Daphnia magna

Acute toxicity - aquatic plants EC<sub>50</sub>, 72 hours: 6.87 mg/l, Pseudokirchneriella subcapitata

### 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-naphthyl)Ethan-1-one

### Acute aquatic toxicity

Acute toxicity - fish LC<sub>50</sub>, 96 hours: 1.3 mg/l, Fish

Acute toxicity - aquatic invertebrates EC<sub>50</sub>, 48 hours: 1.4 mg/l, Daphnia

Acute toxicity - aquatic plants EC<sub>50</sub>, 72 hours: 2.6 mg/l, Algae

### Chronic aquatic toxicity

M factor (Chronic) 1

Chronic toxicity - aquatic invertebrates NOEC, 21 days: 0.028 mg/l, Daphnia

### d-LIMONENE

### Acute aquatic toxicity

LE(C)<sub>50</sub> 0.1 < L(E)C<sub>50</sub> ≤ 1

M factor (Acute) 1

Acute toxicity - fish LC<sub>50</sub>, 96 hours: 0.7 mg/l, Pimephales promelas (Fat-head Minnow)  
LC<sub>50</sub>, 96 hours: 0.8 mg/l, Fish

Acute toxicity - aquatic invertebrates EC<sub>50</sub>, 48 hours: 0.4 mg/l, Daphnia magna  
EC<sub>50</sub>, 48 hours: 69.6 mg/l, Daphnia

Acute toxicity - aquatic plants NOEC, 96 hours: 4 mg/l,  
ErC<sub>50</sub>, 72 hours: 8 mg/l, Desmodesmus subspicatus  
NOEC, 72 hours: 2.62 mg/l, Desmodesmus subspicatus

### Chronic aquatic toxicity

M factor (Chronic) 1

Chronic toxicity - aquatic invertebrates NOEC, 16 days: estimated 0.115 mg/l, Daphnia magna

### METHYLUNDECANAL

### Acute aquatic toxicity

LE(C)<sub>50</sub> 0.1 < L(E)C<sub>50</sub> ≤ 1

## Sultrasoft HC

M factor (Acute)	1
Acute toxicity - fish	NOEC, 96 hours: 0.11 mg/l, Oncorhynchus mykiss (Rainbow trout) LC <sub>50</sub> , 96 hours: 0.35 mg/l, Oncorhynchus mykiss (Rainbow trout)
Acute toxicity - aquatic invertebrates	EC <sub>50</sub> , 48 hours: 0.21 mg/l, Daphnia
Acute toxicity - aquatic plants	NOEC, 72 hours: 0.089 mg/l, Pseudokirchneriella subcapitata EC <sub>50</sub> , 72 hours: 0.18 mg/l, Pseudokirchneriella subcapitata
Chronic aquatic toxicity	
M factor (Chronic)	1

### Vanillin

Acute aquatic toxicity	
Acute toxicity - fish	LC50 Flow-through, 96 hours: 53-61.3 mg/l, Pimephales promelas (Fat-head Minnow) LC50 semi-static, 96 hours: 57 mg/l, Pimephales promelas (Fat-head Minnow) LC50 static, 96 hours: 88 mg/l, Pimephales promelas (Fat-head Minnow)
Acute toxicity - aquatic invertebrates	EC <sub>50</sub> , 24 hours: 180 mg/l, Daphnia magna

### Gamma-Undecalactone

Acute aquatic toxicity	
Acute toxicity - fish	LC <sub>50</sub> , 96 hours: 6.13 mg/l, Fish
Acute toxicity - aquatic invertebrates	EC <sub>50</sub> , 48 hours: 5.85 mg/l, Daphnia
Acute toxicity - aquatic plants	EC <sub>50</sub> , 72 hours: 5.94 mg/l, Algae
Chronic aquatic toxicity	
Chronic toxicity - aquatic invertebrates	EC10, 21 days: 1.02 mg/l, Daphnia

### 2-methyl-3-(4-isopropylphenyl) propanal

Acute aquatic toxicity	
Acute toxicity - fish	LC <sub>50</sub> , 96 hours: estimated >1 - 3 mg/l, Fish
Acute toxicity - aquatic invertebrates	EC <sub>50</sub> , 48 hours: 4.19 mg/l, Daphnia magna
Acute toxicity - aquatic plants	EC <sub>50</sub> , 96 hours: 3.8 mg/l, Pseudokirchneriella subcapitata

### EUGENOL

Acute aquatic toxicity	
LE(C) <sub>50</sub>	0.1 < L(E)C50 ≤ 1

### Hydrocarbons, C11-C13, Isoalkanes, <2% aromatics

Acute aquatic toxicity	
Acute toxicity - fish	LL0, 96 hours: 1000 mg/l, Oncorhynchus mykiss (Rainbow trout)
Acute toxicity - aquatic invertebrates	EL0, 48 hours: 1000 mg/l, Daphnia magna
Acute toxicity - aquatic plants	EL0, 72 hours: 1000 mg/l, Pseudokirchneriella subcapitata NOELR, 72 hours: 1000 mg/l, Pseudokirchneriella subcapitata

## Sultrasoft HC

### 7-Acetyl-1,1,3,4,4,6-hexamethyl tetralin

#### Acute aquatic toxicity

LE(C)<sub>50</sub> 0.1 < L(E)C50 ≤ 1

M factor (Acute) 1

#### Chronic aquatic toxicity

M factor (Chronic) 1

### Cedr-8-enyl Methyl Ketone (Acetyl Cedrene)

#### Acute aquatic toxicity

LE(C)<sub>50</sub> 0.1 < L(E)C50 ≤ 1

M factor (Acute) 1

#### Chronic aquatic toxicity

M factor (Chronic) 1

### Diphenyl Ether

#### Acute aquatic toxicity

LE(C)<sub>50</sub> 0.1 < L(E)C50 ≤ 1

M factor (Acute) 1

### TURPENTINE, OIL

#### Acute aquatic toxicity

Acute toxicity - fish LC<sub>50</sub>, 96 hours: 29.0 mg/l, Freshwater fish

Acute toxicity - aquatic invertebrates EC<sub>50</sub>, 48 hours: 8.8 mg/l, Daphnia magna

Acute toxicity - aquatic plants NOEC, : 10 mg/l, Freshwater algae  
EC<sub>50</sub>, : 17.1 mg/l, Freshwater algae

Acute toxicity - microorganisms EC<sub>50</sub>, : 736 mg/l,

### Alpha Pinene

#### Acute aquatic toxicity

LE(C)<sub>50</sub> 0.1 < L(E)C50 ≤ 1

M factor (Acute) 1

#### Chronic aquatic toxicity

M factor (Chronic) 1

## 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.

### Sorbitan oleate

**Persistence and degradability** The product is biodegradable.

### 2-(2-butoxyethoxy)ethanol



## Sultrasoft HC

Persistence and degradability	The product is biodegradable. >70% Readily biodegradable
Biodegradation	OECD 302B - Degradation 100%: 28 days  Isotridecanol,ethoxylated (>7 - <15 EO)
Biodegradation	OECD 301B - >60%: 28 days  Sorbitan monooleate, ethoxylated
Biodegradation	The product is biodegradable. - 60%: > 28 days
Chemical oxygen demand	2200 mg O <sub>2</sub> /g  Fatty acids, C18 unsatd., reaction products with triethanolamine, di-Me sulfate-quaternized
Biodegradation	- >70%: 56 days  Quaternary ammonium compounds, benzyl (C12 - C16) alkyl dimethyl, chlorides
Biodegradation	- >60%:  hexahydro-hexamethyl-cyclopenta-benzopyran
Persistence and degradability	Not readily biodegradable.  hexyl-2-hydroxybenzoate
Persistence and degradability	Readily biodegradable.
Biodegradation	OECD 301F - 43%: 28 days Directive 67/548/EEC Annex V, C.4.D - Degradation 20%:  4-tertiary-butyl-cyclohexyl-acetate
Persistence and degradability	Readily biodegradable.
Biodegradation	- Degradation 75%:  a-hexylcinnamaldehyde
Persistence and degradability	Readily biodegradable.
Biodegradation	- 97%: 28 days  1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-naphthyl)Ethan-1-one
Persistence and degradability	Not readily biodegradable.
Biodegradation	- 11%: 28 days  d-LIMONENE
Persistence and degradability	Not readily biodegradable.  COUMARIN
Persistence and degradability	Readily biodegradable.  METHYLUNDECANAL

## Sultrasoft HC

Persistence and degradability Readily biodegradable.

Biodegradation Activated sludge - 62%: 28 days

### Vanillin

Persistence and degradability Readily biodegradable.

### Gamma-Undecalactone

Persistence and degradability Readily biodegradable.

Biodegradation - 82%: 28 days

### Tetrahydro Linalool

Persistence and degradability Readily biodegradable.

Biodegradation Directive 67/548/EEC Annex V, C.4.C - Degradation 64%:  
Directive 67/548/EEC Annex V, C.4.B - Degradation 100%:  
Directive 67/548/EEC Annex V, C.4.F - Degradation >60%:

### 2-methyl-3-(4-isopropylphenyl) propanal

Persistence and degradability Readily biodegradable.

Biodegradation - 65.5%: 28 days

### 2-Tertiary-Butylcyclohexylacetate

Biodegradation Activated sludge - Degradation 43 %: ~ 28 days

### 12.3. Bioaccumulative potential

Bioaccumulative potential No data available on bioaccumulation.

### Ecological information on ingredients.

#### Sorbitan oleate

Bioaccumulative potential No potential for bioaccumulation.

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

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

Partition coefficient log Pow: 1.00

#### Quaternary ammonium compounds, benzyl (C12 - C16) alkyl dimethyl, chlorides

Partition coefficient log Kow: 2.88

#### hexahydro-hexamethyl-cyclopenta-benzopyran

Partition coefficient log Pow: 5.3

#### hexyl-2-hydroxybenzoate

Partition coefficient log Pow: 5.5 (30C)

#### α-hexylcinnamaldehyde

Partition coefficient log Pow: 5.3

## Sultrasoft HC

1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-naphthyl)Ethan-1-one

Partition coefficient log Pow: 5.65

d-LIMONENE

Partition coefficient log Kow: 2.78-5.03

Vanillin

Partition coefficient log Kow: 1.21

Gamma-Undecalactone

Partition coefficient log Pow: 3.6

Tetrahydro Linalool

Partition coefficient log Pow: 3.3

2-methyl-3-(4-isopropylphenyl) propanal

Partition coefficient log Pow: 3.4

2-Tertiary-Butylcyclohexylacetate

Bioaccumulative potential BCF: ~ 156, Oncorhynchus mykiss (Rainbow trout)

TURPENTINE, OIL

Partition coefficient log Kow: 4.49

### 12.4. Mobility in soil

Mobility The product is soluble in water.

### Ecological information on ingredients.

2-(2-butoxyethoxy)ethanol

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

Isotridecanol,ethoxylated (>7 - <15 EO)

Adsorption/desorption coefficient Soil - Koc: > 5000 @ °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.

Sorbitan oleate

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

2-(2-butoxyethoxy)ethanol

## Sultrasoft HC

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.

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

Danish product registration number

Danish national regulations

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

Inventories

## Sultrasoft HC

### EU - EINECS/ELINCS

None of the ingredients are listed or exempt.

### SECTION 16: Other information

**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.

**Revision comments** Revised classification.

**Revision date** 11/05/2023

**Revision** 10

**Supersedes date** 27/10/2022

**SDS number** 7870/21464

**Hazard statements in full**

H225 Highly flammable liquid and vapour.  
 H226 Flammable liquid and vapour.  
 H290 May be corrosive to metals.  
 H302 Harmful if swallowed.  
 H304 May be fatal if swallowed and enters airways.  
 H312 Harmful in contact with skin.  
 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.  
 H336 May cause drowsiness or dizziness.  
 H361d Suspected of damaging the unborn child.  
 H373 May cause damage to organs through prolonged or repeated exposure.  
 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.

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.