



## SAFETY DATA SHEET

### Sultrex HI

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	Sultrex HI
Product number	7867/21477
UFI	UFI: EESP-30PH-E00J-0MF9

##### 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)
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## Sultrex HI

National emergency telephone number	<p>NCEC Tel: +44 1235 239670 (UK and Europe) (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          National Poisons Information Centre Tel: +353 (01) 809 2566 (Ireland) - Healthcare Professionals only (24 hour service)          +45 8988 2286 (Denmark)          +358 9 7479 0199 (Finland)          +47 2103 4452 (Norway)          +46 8 566 42573          +46 112 Begär Giftinformation (Sweden)</p>
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### 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
Hazard statements	<p>H315 Causes skin irritation.          H318 Causes serious eye damage.          H412 Harmful to aquatic life with long lasting effects.</p>
Precautionary statements	<p>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.</p>
Contains	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
Detergent labelling	5 - < 15% aliphatic hydrocarbons, 5 - < 15% anionic surfactants, 5 - < 15% non-ionic surfactants, < 5% cationic surfactants

## Sultrex HI

### Supplementary precautionary statements

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	
White Mineral Oil (Petroleum)	5-10%
CAS number: 8042-47-5	EC number: 232-455-8
<b>Classification</b> Asp. Tox. 1 - H304	
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	

## Sultrex HI

<p>Reaction product of Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. and Benzenesulfonic acid, 4-methyl- and sodium hydroxide</p> <p>CAS number: — EC number: 932-051-8</p>	1-3%
<p>Classification</p> <p>Skin Irrit. 2 - H315 Eye Dam. 1 - H318 Aquatic Chronic 3 - H412</p>	
<p>2-Propylheptanol, ethoxylated</p> <p>CAS number: 160875-66-1</p>	1-3%
<p>Classification</p> <p>Acute Tox. 4 - H302 Eye Dam. 1 - H318</p>	
<p>DDBS ACID</p> <p>CAS number: 85536-14-7 EC number: 287-494-3</p>	1-3%
<p>Classification</p> <p>Acute Tox. 4 - H302 Skin Corr. 1C - H314 Aquatic Chronic 3 - H412</p>	

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

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

<b>General information</b>	Get medical attention if symptoms are severe or persist. Remove affected person from source of contamination.
<b>Inhalation</b>	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.
<b>Ingestion</b>	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.
<b>Skin contact</b>	Wash skin thoroughly with soap and water. Remove contaminated clothing. Get medical attention promptly if symptoms occur after washing.
<b>Eye contact</b>	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

<b>General information</b>	The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
<b>Inhalation</b>	Spray/mists may cause respiratory tract irritation. This is unlikely to occur but symptoms similar to those of ingestion may develop.
<b>Ingestion</b>	May cause discomfort if swallowed.
<b>Skin contact</b>	Causes skin irritation. Prolonged or repeated contact with skin may cause irritation, redness and dermatitis.
<b>Eye contact</b>	Severe irritation, burning and tearing.

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

<b>Notes for the doctor</b>	Treat symptomatically.
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## Sultrex HI

### 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.

#### 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** 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

## Sultrex HI

### 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

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</p> <p>Industry - Dermal; Long term local effects: 0.09</p> <p>Industry - Inhalation; Long term systemic effects: 73.4 mg/m<sup>3</sup></p> <p>Consumer - Inhalation; Long term systemic effects: 21.7 mg/m<sup>3</sup></p> <p>Consumer - Dermal; Long term local effects: 0.056</p> <p>Consumer - Oral; Long term systemic effects: 6.25</p>
PNEC	<p>Fresh water; 0.007 mg/l</p> <p>marine water; 0.0007 mg/l</p> <p>Intermittent release; 0.024 mg/l</p> <p>Sediment; 0.0424 mg/kg</p> <p>Soil; 0.0189 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>
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## Sultrex HI

PNEC	<ul style="list-style-type: none"> <li>- Fresh water; 0.268 mg/l</li> <li>- marine water; 0.0268 mg/l</li> <li>- Intermittent release; 0.055 mg/l</li> <li>- STP; 5.6 mg/l</li> <li>- Sediment (Freshwater); 8.1 mg/kg dw</li> <li>- Sediment (Marinewater); 8.1 mg/kg dw</li> <li>- Soil; 35 mg/kg dw</li> </ul>
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### DDBS ACID (CAS: 85536-14-7)

DNEL	<p>Workers - Dermal; Long term systemic effects: 85 mg/kg          Workers - Inhalation; Long term systemic effects: 6 mg/m<sup>3</sup>          Consumer - Dermal; Long term systemic effects: 42.5 mg/kg          Consumer - Inhalation; Long term systemic effects: 1.5 mg/m<sup>3</sup>          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: 186 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></p>
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PNEC	<ul style="list-style-type: none"> <li>- Fresh water; 206 mg/l</li> <li>- marine water; 26 mg/l</li> <li>- Sediment (Freshwater); 572 mg/l</li> <li>- Sediment (Marinewater); 57.2 mg/l</li> <li>- Soil; 50 mg/kg dw</li> <li>- STP; 20000 mg/l</li> </ul>
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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 To protect hands from chemicals, wear gloves that are proven to be impervious to the chemical and resist degradation. Wear protective gloves made of the following material: Neoprene. Nitrile rubber. Polyethylene. Polyvinyl chloride (PVC).

Other skin and body protection Wear suitable protective clothing (EN14605)

## Sultrex HI

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	Yellowish.
Odour	Characteristic.
pH	pH (concentrated solution): 7.0-8.0
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	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)	5,912.63
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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



## Sultrex HI

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

## Sultrex HI

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

### Polyethyleneglycol 400 Monooleate

#### Acute toxicity - oral

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

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>  
mg/kg) 5,001.0

Species Rat

ATE oral (mg/kg) 5,001.0

#### Acute toxicity - dermal

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

Species Rat

ATE dermal (mg/kg) 2,001.0

### 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>  
mg/kg) 3,500.0

Species Rat

ATE oral (mg/kg) 3,500.0

#### Acute toxicity - dermal

## Sultrex HI

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

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

### 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

### MONOPROPYLENE GLYCOL

### 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) 22,500.0

Species Rat

ATE dermal (mg/kg) 22,500.0

### 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

Species Rat

ATE oral (mg/kg) 2,001.0

## Sultrex HI

### 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

## 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

#### White Mineral Oil (Petroleum)

Toxicity Not toxic

#### 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,

Acute toxicity - aquatic invertebrates EC<sub>50</sub>, 48 hours: 3.2 mg/l, Daphnia magna

Acute toxicity - aquatic plants IC<sub>50</sub>, 72 hours: 3.9 mg/l, Algae

##### Chronic aquatic toxicity

Chronic toxicity - fish early life stage NOEC, 28 days: 0.32 mg/l,

Chronic toxicity - aquatic invertebrates NOEC, 21 days: 0.07 mg/l, Daphnia magna

## Sultrex HI

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)
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

## DDBS ACID

### 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

## MONOPROPYLENE GLYCOL

### Acute aquatic toxicity

Acute toxicity - fish	LC <sub>50</sub> , 96 hours: 40613 mg/l, Oncorhynchus mykiss (Rainbow trout)
Acute toxicity - aquatic invertebrates	EC <sub>50</sub> , 48 hours: 43500 mg/l, Daphnia magna
Acute toxicity - aquatic plants	EC <sub>50</sub> , 96 hours: 19000 mg/l, EC <sub>50</sub> , 96 hours: 19100 mg/l, Skeletonema costatum
Acute toxicity - microorganisms	NOEC, 18 hours: 20000 mg/l, PSEUDOMONAS PUTIDA

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
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## Sultrex HI

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

### 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.

##### White Mineral Oil (Petroleum)

Persistence and degradability Inherently biodegradable. Not readily 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).

Biodegradation - Degradation (%) 92.5: 28 days

##### 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

##### 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

## Sultrex HI

Bioaccumulative potential No potential for bioaccumulation.

White Mineral Oil (Petroleum)

Bioaccumulative potential Bioaccumulation is unlikely to be significant because of the low water-solubility of this product.

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

Bioaccumulative potential BCF: 65.36,

Partition coefficient log Pow: 3.75

DDBS ACID

Partition coefficient log Kow: 2500

### 12.4. Mobility in soil

Mobility Soluble in water.

Ecological information on ingredients.

2-(2-butoxyethoxy)ethanol

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

White Mineral Oil (Petroleum)

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

## Sultrex HI

### 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

**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.



## Sultrex HI

Revision comments	Revision is due to address change Revision is due to change of UFI number
Revision date	27/10/2022
Revision	8
Supersedes date	08/06/2021
SDS number	7867/21477
Hazard statements in full	H302 Harmful if swallowed. H304 May be fatal if swallowed and enters airways. H314 Causes severe skin burns and eye damage. 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.