

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

### 1.1. Product identifier

Product name	Wolf Flow Detergent Non-Bio
Product number	7801/23299
UFI	UFI: 6RKP-Q04A-600M-ASFV

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

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

Supplier	Wolf Laundry Ltd Unit 5B, Ashroyd Business Park, Platts Common, Barnsley South Yorkshire S74 9SB Tel: 0808 500 8043 info@wolflaundry.co.uk
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### 1.4. Emergency telephone number

Emergency telephone	Wolf Laundry Ltd: Tel: 0808 500 8043 (Mon - Fri 8am-6pm)
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	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	Reaction product of Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. and Benzenesulfonic acid, 4- methyl- and sodium hydroxide, Alcohols, C13-15, branched and linear, ethoxylated
Detergent labelling	15 - < 30% phosphates, < 5% anionic surfactants, < 5% non-ionic surfactants, < 5% optical brighteners, < 5% perfumes, < 5% soap, Contains 1,2-BENZOISOTHIAZOL-3(2H)-ONE

**Supplementary precautionary statements**

P264 Wash ... thoroughly after handling.  
 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.  
 P313 Get medical advice/ attention.  
 P337 If eye irritation persists:

**2.3. Other hazards****SECTION 3: Composition/information on ingredients****3.2. Mixtures**

<b>Reaction product of Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. and Benzenesulfonic acid, 4-methyl- and sodium hydroxide</b> <span style="float: right;">3-5%</span> CAS number: — EC number: 932-051-8
<b>Classification</b> Skin Irrit. 2 - H315 Eye Dam. 1 - H318 Aquatic Chronic 3 - H412
<b>Alcohols, C13-15, branched and linear, ethoxylated</b> <span style="float: right;">1-3%</span> CAS number: 157627-86-6 EC number: 931-954-4
<b>Classification</b> Acute Tox. 4 - H302 Eye Dam. 1 - H318 Aquatic Chronic 3 - H412
<b>Treated amorphous silica</b> <span style="float: right;">&lt;1%</span> CAS number: 2035064-87-8
<b>Classification</b> Not Classified
<b>ETHANEDIOL</b> <span style="float: right;">&lt;1%</span> CAS number: 107-21-1 EC number: 203-473-3
<b>Classification</b> Acute Tox. 4 - H302
<b>d-LIMONENE</b> <span style="float: right;">0.0083%</span> CAS number: 5989-27-5 EC number: 227-813-5 M factor (Acute) = 1 M factor (Chronic) = 1
<b>Classification</b> Flam. Liq. 3 - H226 Skin Irrit. 2 - H315 Skin Sens. 1 - H317 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410
<b><math>\alpha</math>-hexylcinnamaldehyde</b> <span style="float: right;">0.0083%</span> CAS number: 101-86-0 EC number: 202-983-3 M factor (Acute) = 1

<b>Classification</b> Skin Sens. 1B - H317 Aquatic Acute 1 - H400 Aquatic Chronic 2 - H411		
<b>Linalool</b>		0.005%
CAS number: 78-70-6	EC number: 201-134-4	
<b>Classification</b> Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Skin Sens. 1B - H317		
<b>Alpha-IsoMethyl Ionone</b>		0.002%
CAS number: 127-51-5	EC number: 204-846-3	
<b>Classification</b> Skin Sens. 1B - H317 Aquatic Chronic 2 - H411		
<b>Diethyl phthalate</b>		<1%
CAS number: 84-66-2	EC number: 201-550-6	
<b>Classification</b> Not Classified		
<b>CITRAL</b>		0.00072%
CAS number: 5392-40-5	EC number: 226-394-6	
<b>Classification</b> Skin Irrit. 2 - H315 Skin Sens. 1 - H317		
<b>GERANIOL</b>		0.00036%
CAS number: 106-24-1	EC number: 203-377-1	
<b>Classification</b> Skin Irrit. 2 - H315 Eye Dam. 1 - H318 Skin Sens. 1 - H317		
<b>potassium hydroxide</b>		<1%
CAS number: 1310-58-3	EC number: 215-181-3	
<b>Classification</b> Met. Corr. 1 - H290 Acute Tox. 4 - H302 Skin Corr. 1A - H314 Eye Dam. 1 - H318		

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

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

Inhalation	Non-volatile liquid product.
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. Rinse immediately with plenty of 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

Inhalation	This is unlikely to occur but symptoms similar to those of ingestion may develop.
Ingestion	May cause stomach pain or vomiting.
Skin contact	Skin irritation.
Eye contact	May cause severe eye irritation.

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

Notes for the doctor	No specific recommendations. If in doubt, get medical attention promptly.
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### SECTION 5: Fire fighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media	Use fire-extinguishing media suitable for the surrounding fire.
Unsuitable extinguishing media	None known.

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

Specific hazards	None known.
Hazardous combustion products	Does not decompose when used and stored as recommended.

#### 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.

### 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.
For non-emergency personnel	Prevent further leakage or spillage if safe to do so. Keep away from incompatible products.
For emergency responders	Avoid discharge into drains or watercourses or onto the ground.

#### 6.2. Environmental precautions

Environmental precautions	Collect and dispose of spillage as indicated in Section 13.
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#### 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. Inform authorities if large amounts are involved.
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#### 6.4. Reference to other sections

Reference to other sections	Wear protective clothing as described in Section 8 of this safety data sheet. Collect and dispose of spillage as indicated in Section 13. See Section 11 for additional information on health hazards.
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### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Usage precautions Avoid spilling/Avoid contact with skin and eyes.

Advice on general occupational hygiene When using do not eat, drink or smoke.

## 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 Unspecified 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

##### Treated amorphous silica

Long-term exposure limit (8-hour TWA): 0.08 mg/m<sup>3</sup> respirable dust

##### ETHANEDIOL

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

Short-term exposure limit (15-minute): WEL 104 mg/m<sup>3</sup>(Sk)

##### Diethyl phthalate

Long-term exposure limit (8-hour TWA): WEL 5 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 10 mg/m<sup>3</sup>

##### potassium hydroxide

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

WEL = Workplace Exposure Limit.

#### PENTASODIUM TRIPHOSPHATE (CAS: 7758-29-4)

##### DNEL

Workers - Dermal; Short term systemic effects: 0.375 mg/kg bw/day  
Workers - Inhalation; Short term systemic effects: 0.661 mg/m<sup>3</sup>  
Workers - Dermal; Long term systemic effects: 0.375 mg/kg bw/day  
Workers - Inhalation; Long term systemic effects: 0.661 mg/l  
General population - Dermal; Short term systemic effects: 0.375 mg/kg  
General population - Inhalation; Short term systemic effects: 0.66 mg/kg bw/day  
General population - Oral; Short term systemic effects: 0.75 mg/kg  
General population - Oral; Long term systemic effects: 0.75 mg/kg bw/day  
General population - Inhalation; Long term systemic effects: 0.661 mg/m<sup>3</sup>  
General population - Dermal; Long term systemic effects: 0.375 mg/kg bw/day

##### PNEC

- Fresh water; 0.005 mg/l  
- marine water; 0.005 mg/l  
- Intermittent release, Fresh water; 0.05 mg/l  
- Sediment (Freshwater); 0.19 mg/kg dw  
- Soil; 0.14 mg/kg dw

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

##### DNEL

Workers - Dermal; Long term systemic effects: 85 mg/kg bw/day  
Workers - Inhalation; Long term systemic effects: 6 mg/m<sup>3</sup>  
Consumer - Dermal; Long term systemic effects: 42.5 mg/kg bw/day  
Consumer - Inhalation; Long term systemic effects: 1.5 mg/m<sup>3</sup>  
Consumer - Oral; Long term systemic effects: 0.425 mg/kg bw/day

##### PNEC

- Fresh water; 0.268 mg/l  
- marine water; 0.0268 mg/l  
- Intermittent release; 0.055 mg/l

- STP; 5.6 mg/l
- Sediment (Freshwater); 8.1 mg/kg dw
- Sediment (Marinewater); 8.1 mg/kg dw
- Soil; 35 mg/kg dw

#### Distyryl Biphenyl Derivative (CAS: 27344-41-8)

**DNEL** Workers - Dermal; Long term systemic effects: 53 mg/kg  
 Consumer - Dermal; Long term systemic effects: 19 mg/kg  
 Consumer - Oral; Long term systemic effects: 1.9 mg/kg  
 Workers - Inhalation; Long term systemic effects: 20.5 mg/m<sup>3</sup>

**PNEC** Fresh water; 0.0625 mg/l  
 marine water; 0.00625 mg/l  
 Intermittent release; 0.1028 mg/l  
 STP; 100 mg/l  
 Sediment (Freshwater); 198000 mg/kg  
 Sediment (Marinewater); 19800 mg/kg  
 Soil; 1 mg/kg

#### α-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

**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

#### 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

#### GERANIOL (CAS: 106-24-1)

**DNEL** Workers - Inhalation; Long term systemic effects: 161.6 mg/m<sup>3</sup>  
 Workers - Dermal; Long term systemic effects: 12.5 mg/kg  
 Consumer - Oral; Long term systemic effects: 13.75 mg/kg  
 Consumer - Inhalation; Long term systemic effects: 47.8 mg/m<sup>3</sup>  
 Consumer - Dermal; Long term systemic effects: 7.5 mg/kg

## 8.2. Exposure controls

### Protective equipment



Appropriate engineering controls	No specific ventilation requirements.
Eye/face protection	The following protection should be worn: Chemical splash goggles.
Hand protection	Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible.
Other skin and body protection	Wear appropriate clothing to prevent skin contact.
Respiratory protection	No specific recommendations. Respiratory protection may be required if excessive airborne contamination occurs.

## SECTION 9: Physical and chemical properties

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

Appearance	Opaque liquid
Colour	White.
Odour	Perfume.
pH	pH (concentrated solution): 8-8.5
Melting point	>10°C
Initial boiling point and range	>100°C @ 760 mm Hg
Relative density	~ 1.16 @ 20°C
Solubility(ies)	Miscible with water.
Viscosity	1000-1500 cP @ 20°C

### 9.2. Other information

Other information	Not available.
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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	No particular stability concerns.
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### 10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	Not 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	No specific material or group of materials is likely to react with the product to produce a hazardous situation.
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### 10.6. Hazardous decomposition products

Hazardous decomposition products	Thermal decomposition or combustion products may include the following substances: Oxides of the following substances: Carbon. Sulphur.
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## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Acute toxicity - oral

ATE oral (mg/kg) 16,722.41

Inhalation This is unlikely to occur but symptoms similar to those of ingestion may develop.

Ingestion May cause discomfort if swallowed.

Skin contact Skin irritation should not occur when used as recommended.

Eye contact Risk of serious damage to eyes.

Acute and chronic health hazards Repeated exposure may cause chronic eye irritation. Mild dermatitis, allergic skin rash.

#### Toxicological information on ingredients.

#### PENTASODIUM TRIPHOSPHATE

##### 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) 4,641.0

Species Rabbit

ATE dermal (mg/kg) 4,641.0

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

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

#### Alcohols, C13-15, branched and linear, ethoxylated

##### Acute toxicity - oral

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

Species Rat

ATE oral (mg/kg) 500.0

##### Acute toxicity - dermal



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

#### Distyryl Biphenyl Derivative

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	Rat
ATE dermal (mg/kg)	2,001.0
Acute toxicity - inhalation	
Acute toxicity inhalation (LC <sub>50</sub> dust/mist mg/l)	3.9
Species	Rat

#### Carboxymethyl Cellulose

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
Species	Rabbit
ATE dermal (mg/kg)	2,001.0
Acute toxicity - inhalation	
Acute toxicity inhalation (LC <sub>50</sub> dust/mist mg/l)	5.6
Species	Rat
ATE inhalation (dusts/mists mg/l)	5.6

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

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

#### Treated amorphous silica

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

#### 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

#### 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.

#### 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

#### Linalool

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

Species	Rat
ATE oral (mg/kg)	2,790.0

#### 1,2-benzisothiazol-3(2H)-one

Acute toxicity - oral	
ATE oral (mg/kg)	500.0
Acute toxicity - inhalation	
ATE inhalation (vapours mg/l)	0.5

#### Allyl Amyl Glycolate

Acute toxicity - oral	
Acute toxicity oral (LD <sub>50</sub> mg/kg)	302.0
ATE oral (mg/kg)	500.0
Acute toxicity - dermal	
Acute toxicity dermal (LD <sub>50</sub> mg/kg)	1,105.0
ATE dermal (mg/kg)	1,100.0

#### 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

#### 2,4-Dimethylcyclohex-3-ene-1-carbaldehyde

Acute toxicity - oral	
Acute toxicity oral (LD <sub>50</sub> mg/kg)	3,900.0
Species	Rat
Acute toxicity - dermal	
Acute toxicity dermal (LD <sub>50</sub> mg/kg)	5,000.0
Species	Rabbit
ATE dermal (mg/kg)	5,000.0

#### Camphor

Acute toxicity - inhalation	
ATE inhalation (dusts/mists mg/l)	1.5

#### Dodecanal

Acute toxicity - oral	
Acute toxicity oral (LD <sub>50</sub> mg/kg)	23,101.0
Species	Rat
ATE oral (mg/kg)	23,101.0

#### GERANIOL

Acute toxicity - oral	
Acute toxicity oral (LD <sub>50</sub> mg/kg)	3,600.0
Species	Rat
Acute toxicity - dermal	
Acute toxicity dermal (LD <sub>50</sub> mg/kg)	5,001.0
Species	Rabbit

#### DAMASCONE (DELTA)

Acute toxicity - oral	
Acute toxicity oral (LD <sub>50</sub> mg/kg)	1,400.0
Species	Mouse
ATE oral (mg/kg)	500.0
Acute toxicity - dermal	

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

Specific target organ toxicity - repeated exposure  
 STOT - repeated exposure NOAEL 30 mg/kg, Oral, Rat

#### potassium hydroxide

Acute toxicity - oral	
ATE oral (mg/kg)	500.0

## SECTION 12: Ecological information

**Ecotoxicity** Environmental information currently available for the ingredients of this preparation indicates that it does not contain any ingredients currently classified as Dangerous for the Environment.

### 12.1. Toxicity

**Toxicity** Not considered toxic to fish.

Ecological information on ingredients.

#### PENTASODIUM TRIPHOSPHATE

Acute aquatic toxicity	
Acute toxicity - fish	LC <sub>50</sub> , : >1850 mg/l,
Acute toxicity - aquatic invertebrates	EC <sub>50</sub> , 48 hours: >100 mg/l, Daphnia magna
Acute toxicity - aquatic plants	ErC50, : 160 mg/l, Desmodium subspicatus

#### Chronic aquatic toxicity

Chronic toxicity - fish early life stage LOEC, 96 hours: 5 mg/l, Fish

#### 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  
EC10, 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

#### Alcohols, C13-15, branched and linear, ethoxylated

#### Acute aquatic toxicity

Acute toxicity - fish LC<sub>50</sub>, 96 hours: >1-10 mg/l, Brachydanio rerio (Zebra Fish)

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, Scenedesmus subspicatus

Acute toxicity - microorganisms EC10, : >1000 mg/l, Activated sludge

#### Chronic aquatic toxicity

Chronic toxicity - aquatic invertebrates NOEC, 21 days: >0.1-1 mg/l, Daphnia magna

#### Distyryl Biphenyl Derivative

#### Acute aquatic toxicity

Acute toxicity - fish LC<sub>50</sub>, 96 hours: >10 - <100 mg/l, Brachydanio rerio (Zebra Fish)

Acute toxicity - aquatic invertebrates EC<sub>50</sub>, 24 hours: >1000 mg/l, Daphnia magna

Acute toxicity - aquatic plants EC<sub>50</sub>, 72 hours: >10 - <1000 mg/l, Scenedesmus subspicatus

Acute toxicity - microorganisms EC<sub>50</sub>, 4 hours: >1000 mg/l, Activated sludge

#### Chronic aquatic toxicity

Chronic toxicity - aquatic invertebrates NOEC, 21 days: >1 mg/l, Daphnia magna

#### Carboxymethyl Cellulose

#### Acute aquatic toxicity

Acute toxicity - fish LC<sub>50</sub>, 96 hours: >21000 mg/l, Oncorhynchus mykiss (Rainbow trout)

## d-LIMONENE

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: 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, ErC50, 72 hours: 8 mg/l, Desmodemus subspicatus NOEC, 72 hours: 2.62 mg/l, Desmodemus subspicatus
Chronic aquatic toxicity	
M factor (Chronic)	1
Chronic toxicity - aquatic invertebrates	NOEC, 16 days: estimated 0.115 mg/l, Daphnia magna

## α-hexylcinnamaldehyde

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: 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

## 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

## 1,2-benzisothiazol-3(2H)-one

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: 1.6 mg/l, Oncorhynchus mykiss (Rainbow trout)
Acute toxicity - aquatic invertebrates	EC <sub>50</sub> , 48 hours: 2.94 mg/l, Daphnia magna
Acute toxicity - aquatic plants	EC <sub>50</sub> , 72 hours: 0.11 mg/l, Selenastrum capricornutum
Acute toxicity - microorganisms	EC <sub>20</sub> , 3 hours: 3.3 mg/l, Activated sludge

## Allyl Amyl Glycolate

Acute aquatic toxicity	
LE(C) <sub>50</sub>	0.1 < L(E)C50 ≤ 1
M factor (Acute)	1
	2,4-Dimethylcyclohex-3-ene-1-carbaldehyde

Acute aquatic toxicity	
Acute toxicity - aquatic invertebrates	EC <sub>50</sub> , 48 hours: 76 mg/l, Daphnia
	Oxacyclohexadecen-2-one

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

#### GERANIOL

Acute aquatic toxicity	
Acute toxicity - fish	LC <sub>50</sub> , 96 hours: 14 mg/l, Fish
Acute toxicity - aquatic invertebrates	EC <sub>50</sub> , 48 hours: 10.8 mg/l, Daphnia
Acute toxicity - aquatic plants	EC <sub>50</sub> , 72 hours: 13.1 mg/l, Algae

#### DAMASCONE (DELTA)

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: 0.97 mg/l, Oryzias latipes (Red killifish)
Acute toxicity - aquatic plants	ErC50, 72 hours: 4.54 mg/l, Pseudokirchneriella subcapitata NOEC, 72 hours: 0.883 mg/l, Pseudokirchneriella subcapitata
Chronic aquatic toxicity	
M factor (Chronic)	1

#### potassium hydroxide

Acute aquatic toxicity	
Acute toxicity - fish	LC <sub>50</sub> , 96 hours: 44 (24h) mg/l, Fish

## 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.

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

Alcohols, C13-15, branched and linear, ethoxylated

Biodegradation OECD 301B - Degradation >60%:  
OECD 303A - Degradation >=90%:

Chemical oxygen demand 2430 mg/g

Distyryl Biphenyl Derivative

Chemical oxygen demand 1507 mg/g

4-tertiary-butyl-cyclohexyl-acetate

Persistence and degradability Readily biodegradable.

Biodegradation - Degradation 75%

d-LIMONENE

Persistence and degradability Not readily biodegradable.

$\alpha$ -hexylcinnamaldehyde

Persistence and degradability Readily biodegradable.

Biodegradation - 97%: 28 day

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%:

GERANIOL

Persistence and degradability Readily biodegradable.

Biodegradation - 82%: 28 day

### 12.3. Bioaccumulative potential

Bioaccumulative potential No data available on bioaccumulation.

Ecological information on ingredients.

d-LIMONENE

Partition coefficient log Kow: 2.78-5.03

$\alpha$ -hexylcinnamaldehyde

Partition coefficient log Pow: 5.3

Tetrahydro Linalool

Partition coefficient log Pow: 3.3

2,4-Dimethylcyclohex-3-ene-1-carbaldehyde

Partition coefficient log Pow: 2.34



Partition coefficient      log Pow: 2.6

## DAMASCONE (DELTA)

Partition coefficient      log Pow: 4.2

## 12.4. Mobility in soil

Mobility      The product is non-volatile.

## 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.

## 12.6. Other adverse effects

Other adverse effects      None known.

**SECTION 13: Disposal considerations**

## 13.1. Waste treatment methods

Disposal methods      Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

EURAL Code

**SECTION 14: Transport information**

General      Not regulated.

## 14.1. UN number

Not applicable.

## 14.2. UN proper shipping name

Not applicable.

## 14.3. Transport hazard class(es)

## Transport labels

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

National regulations Health and Safety at Work etc. Act 1974 (as amended).  
CHIP  
The Control of Substances Hazardous to Health Regulations

Danish product registration  
number

Danish national regulations

## 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

## SECTION 16: Other information

Revision comments Revision is due to change of UFI number

Revision date 07/07/2021

Revision 5

Supersedes date 13/02/2019

SDS number 7801/23299

Hazard statements in full H226 Flammable liquid and vapour.  
H290 May be corrosive to metals.  
H302 Harmful if swallowed.  
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.  
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.