HP Fabric Conditioner

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

Professionals only (24 hour service)

1.1. Product identifier	
Product name	Wolf Flow HP Fabric Conditioner
Product number	7686/23296
UFI	UFI: 4V8P-GORN-YOOW-8JJ4
1.2. Relevant identified uses of	the substance or mixture and uses advised against
Identified uses	Last rinse additive; finishing agent
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
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 Onl%Iational Poisons Information Centre Tel: +353 (01) 809 2566 (Ireland) - Healthcare

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture		
Classification (SI 2019 No. 720)		
Physical hazards	Not Classified	
Health hazards	Not Classified	
Environmental hazards	Not Classified	
2.2. Label elements		
Hazard statements	NC Not Classified	
B		
Precautionary statements	P262 Do not get in eyes, on skin, or on clothing.	

2.3. Other hazards

SECTION 3: Composition/information on ingredients

3.2. Mixtures

d-LIMONENE		0.051%	
CAS number: 5989-27-5	EC number: 227-813-5		
M factor (Acute) = 1	M factor (Chronic) = 1		

Classification Flam. Liq. 3 - H226 Skin Irrit. 2 - H315 Skin Sens. 1 - H317 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410		
Linalool CAS number: 78-70-6	EC number: 201-134-4	0.046%
Classification Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Skin Sens. 1B - H317		
CITRONELLOL		0.02%
CAS number: 106-22-9	EC number: 203-375-0	
Classification Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Skin Sens. 1B - H317		
a-hexylcinnamaldehyde		0.014%
CAS number: 101-86-0	EC number: 202-983-3	
M factor (Acute) = 1		
Classification Skin Sens. 1B - H317 Aquatic Acute 1 - H400 Aquatic Chronic 2 - H411		
Cinnamyl Alcohol		0.0039%
CAS number: 104-54-1	EC number: 203-212-3	
Classification Acute Tox. 4 - H302 Skin Sens. 1 - H317 Aquatic Chronic 2 - H411		
GERANIOL		0.0033%
CAS number: 106-24-1	EC number: 203-377-1	
Classification Skin Irrit. 2 - H315 Eye Dam. 1 - H318 Skin Sens. 1 - H317		
CITRAL		0.0014%
CAS number: 5392-40-5	EC number: 226-394-6	
Classification Skin Irrit. 2 - H315 Skin Sens. 1 - H317		

EUGENOL

CAS number: 97-53-0

EC number: 202-589-1

0.0013%

Classification

Eye Irrit. 2 - H319 Skin Sens. 1B - H317

COUMARIN		0.00065%
CAS number: 91-64-5	EC number: 202-086-7	
Classification		
Acute Tox. 4 - H302		
Skin Sens. 1B - H317		
Aquatic Chronic 3 - H412		

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

Composition comments No classified ingredients, or those having occupational exposure limits, present above the levels of disclosure.

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 pe Bson ot induce vomiting. Promptly get affected person to drink large volumes of water to dilute the swallowed ch eimeca lilk instead of water if readily availableGet medical attention immediately.	
Skin contact	Remove contaminated clothi R igse immediately with plenty of w diet medical attention promptly if symptoms occur after washing.	
Eye contact	Remove any contact lenses and open eyelids wide a port tinue to rinse for at least 15 minu tes t medical attention immediat ely ntinue to rinse.	
4.2. Most important symptoms	s 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	Prolonged skin contact may cause redness and irritation.	
Eye contact	Irritation of eyes and mucous membranes.	
4.3. Indication of any immediat	te medical attention and special treatment needed	
Notes for the doctor	No specific recommendations. If in doubt, get medical attention promptly.	
SECTION 4: First aid measures		
5.1. Extinguishing media		
Suitable extinguishing media	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.	
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. 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. 6.3. Methods and material for containment and cleaning up Absorb in vermiculite, dry sand or earth and place into containers. Flush spilled material into suitable Methods for cleaning up retaining areas or container with large quantities of water. Inform authorities if large amounts are involved. 6.4. Reference to other sections Reference to other sections Wear protective clothing as described in Section 8 of this safety data sheet. For waste disposal, see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling		
Usage precautions	Avoid spillingWear suitable protective equipment for prolonged exposure and/or high concentrations of vapours, spray or misåvoid contact with skin and eyes.	
7.2. Conditions for safe storage, including any incompatibilities		
Storage precautions	Keep above the chemical's freezing point to avoid rupturing the container. Store in tightly-closed, original container.	
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

propan-2-ol

Long-term exposure limit (8-hour TWA): WEL 400 ppm 999 mg/m³ Short-term exposure limit (15-minute): WEL 500 ppm 1250 mg/m³

Beta Pinene

Long-term exposure limit (8-hour TWA): WEL 140 mg/m³ 25 ppm Short-term exposure limit: WEL 300 mg/m³ 50 ppm WEL = Workplace Exposure Limit.

Fatty acids, C16-18 (even numbered) and C18 unsatd., reaction products with triethanolamine, di-Me sulfate-quaternized (CAS: 91995-81-2)

DNEL	Workers - Dermal; Long term systemic effects: 312.5 mg/kg/day Workers - Inhalation; Long term systemic effects: 44 mg/m ³ General population - Oral; Long term systemic effects: 7.5 mg/kg/day General population - Inhalation; Long term systemic effects: 13 mg/m ³ General population - Dermal; Long term systemic effects: 187.5 mg/kg/day
PNEC	- Fresh water; 0.065 mg/l - marine water; 0.0065 mg/l - Sediment; 141 mg/kg - Soil; 574 mg/kg - STP; 2.96

propan-2-ol (CAS: 67-63-0)

DNEL	Workers - Dermal; Long term systemic effects: 888 mg/kg bw/day Workers - Inhalation; Long term systemic effects: 500 mg/m ³ Consumer - Dermal; Long term systemic effects: 319 mg/kg bw/day Consumer - Inhalation; Long term systemic effects: 89 mg/m ³ Consumer - Oral; Long term systemic effects: 26 mg/kg bw/day
PNEC	- Fresh water; 140.9 mg/l - marine water; 140.9 mg/l - Intermittent release; 140.9 mg/l - STP; 2251 mg/l - Sediment; 552 mg/kg - Soil; 28 mg/kg
	Gamma-Undecalactone (CAS: 104-67-6)
DNEL	Workers - Inhalation; systemic effects: 19 mg/m ³ Workers - Dermal; Long term systemic effects: 5.38 mg/kg bw/day Consumer - Inhalation; systemic effects: 4.68 mg/m ³ 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 ³ Workers - Dermal; Long term systemic effects: 2.5 mg/kg bw/day Workers - Dermal; Short term local effects: 2.76 mg/cm ² Consumer - Inhalation; Long term systemic effects: 0.68 mg/m ³ 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 ²
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 2-phenylethanol (CAS: 60-12-8)
DNEL	Workers - Inhalation; Long term systemic effects: 59.9 mg/m ³ Workers - Dermal; Long term systemic effects: 21.2 mg/kg General population - Inhalation; Long term systemic effects: 17.7 mg/m ³ 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 ³ Workers - Inhalation; Short term local effects: 6.28 mg/m ³ Workers - Dermal; Long term systemic effects: 18.2 mg/kg bw/day Workers - Dermal; Long term local effects: 0.525 mg/cm ² Consumer - Inhalation; Long term systemic effects: 0.019 mg/m ³ Consumer - Inhalation; Short term local effects: 4.71 mg/m ³ Consumer - Dermal; Long term systemic effects: 9.11 mg/kg bw/day Consumer - Dermal; Long term local effects: 0.0787 mg/cm ² Consumer - Dermal; Short term local effects: 0.0787 mg/cm ² 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-2-ISOBUTYL-4-METHYLPYRAN-4-OL, Mixed isomers (cis & trans) (CAS: 63500-71-0)

DNEL	Workers - Inhalation; Long term systemic effects: 44.1 mg/m³ Workers - Dermal; Long term systemic effects: 41.7 mg/kg bw/day General population - Inhalation; Long term systemic effects: 13 mg/m³ General population - Dermal; Long term systemic effects: 25 mg/kg bw/day General population - Oral; Long term systemic effects: 7.5 mg/kg bw/day
	GERANIOL (CAS: 106-24-1)
DNEL	Workers - Inhalation; Long term systemic effects: 161.6 mg/m³ 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/m³ 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	Safety glasses with side-shields (EN 166).
Hand protection	In case of repeated or prolonged contact wear gloves. Chemical resistant PVC gloves (to European standard EN 374 or equivalent)
Other skin and body protection	No specific clothing required
Hygiene measures	Do not eat, drink or smoke when using this product.
Respiratory protection	No specific recommendations. 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	Opaque liquid.
Colour	Green.
Odour	Perfume.
рН	pH (diluted solution): 6-8 1%
Relative density	~ 0.99 @ 20°C
Solubility(ies)	Soluble in water.
9.2. Other information	
Other information	Not known.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity

There are no known reactivity hazards associated with this product.

10.2. Chemical stability

Stability

No particular stability concerns.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions No potentially hazardous reactions known.

10.4. Conditions to avoid

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

10.5. Incompatible materials

Materials to avoid Strong oxidising agents. Strong reducing agents.

10.6. Hazardous decomposition products

Hazardous decompositionThermal decomposition or combustion products may include the following substances: Oxides of the
following substances: Carbon. Nitrogen.

SECTION 10: Toxiclogical information

11.1. Information on toxicological effects

Inhalation	This is unlikely to occur but symptoms similar to those of ingestion may develop.
Ingestion	Liquid irritates mucous membranes and may cause abdominal pain if swallowed.
Skin contact	Slightly irritating.
Eye contact	May cause severe eye irritation.
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.

Toxicological information on ingredients.

Fatty acids, C16-18 (even numbered) and C18 unsatd., reaction products with triethanolamine, di-Me sulfate-quaternized

Acute toxicity - oral	
Acute toxicity oral (LD₅₀ mg/kg)	5,000.0
Species	Rat
ATE oral (mg/kg)	5,000.0
Acute toxicity - dermal	
Acute toxicity dermal (LD ₅₀ mg/kg)	2,001.0
Species	Rat
ATE dermal (mg/kg)	2,001.0
	propan-2-ol
Acute toxicity - inhalation	
Acute toxicity inhalation (LC_{50} vapours mg/l)	26.0
ATE inhalation (vapours mg/l)	26.0
Carcinogenicity	
IARC carcinogenicity	IARC Group 3 Not classifiable as to its carcinogenicity to humans.
	Benzyl acetate

Acute toxicity - oral

Acute toxicity oral (LD ₅₀ 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.
	d-LIMONENE
Acute toxicity - oral	
Acute toxicity oral (LD50 mg/kg)	4,400.0
Species	Rat
Acute toxicity - dermal	
Acute toxicity dermal (LD ₅₀ mg/kg)	5,001.0
Species	Rabbit
Carcinogenicity	
IARC carcinogenicity	IARC Group 3 Not classifiable as to its carcinogenicity to humans.
	Linalool
Acute toxicity - oral	
Acute toxicity oral (LD50 mg/kg)	2,790.0
Species	Rat
ATE oral (mg/kg)	2,790.0
	2,6-Dimethyl-7-octen-2-ol
Acute toxicity - oral	
Acute toxicity oral (LD₅₀ mg/kg)	3,600.0
Species	Rat
ATE oral (mg/kg)	3,600.0
	Gamma-Undecalactone
Acute toxicity - oral	
Acute toxicity oral (LD ₅₀ mg/kg)	2,001.0
Species	Rat
Acute toxicity - dermal	
Acute toxicity dermal (LD50 mg/kg)	2,001.0
Species	Rabbit
ATE dermal (mg/kg)	2,001.0
	Tetrahydro Linalool
Acute toxicity - oral	

Acute toxicity oral (LD ₅₀ mg/kg)	5,001.0	
Species	Rat	
Acute toxicity - dermal		
Acute toxicity dermal (LD ₅₀ mg/kg)	5,001.0	
Species	Rabbit	
		2-phenylethanol
Acute toxicity - oral		
Acute toxicity oral (LD ₅₀ mg/kg)	1,790.0	
Species	Rat	
ATE oral (mg/kg)	1,790.0	
Acute toxicity - dermal		
Acute toxicity dermal (LD ₅₀ mg/kg)	2,500.0	
		hexyl-2-hydroxybenzoate
Acute toxicity - oral		
Acute toxicity oral (LD ₅₀ mg/kg)	5,001.0	
Species	Rat	
Acute toxicity - dermal		
Acute toxicity dermal (LD ₅₀ mg/kg)	5,001.0	
Species	Rabbit	
		Alpha Taminaal
Acute toxicity - oral		Alpha-Terpineol
Acute toxicity oral (LD ₅₀ mg/kg)	4,300.0	
Species	Rat	
Acute toxicity - dermal	itat	
Acute toxicity dermal (LD ₅₀ mg/kg)	3,001.0	
Species	Rabbit	
		a-hexylcinnamaldehyde
Acute toxicity - oral		dhexylcimamaidenyde
Acute toxicity - oral	3,100.0	
mg/kg)		
Species	Rat	
Acute toxicity - dermal		
Acute toxicity dermal (LD ₅₀ mg/kg)	3,001.0	
Species	Rabbit	

TETRAHYDRO-2-ISOBUTYL-4-METHYLPYRAN-4-OL, Mixed isomers (cis & trans)

Acute toxicity - oral	
Acute toxicity oral (LD ₅₀ mg/kg)	5,001.0
Species	Rat
Acute toxicity - dermal	
Acute toxicity dermal (LD ₅₀ mg/kg)	2,001.0
Species	Rabbit
	Tricyclodecenyl Propionate
Acute toxicity - oral	
Acute toxicity oral (LD ₅₀ mg/kg)	5,001.0
Species	Rat
ATE oral (mg/kg)	5,001.0
	Heliotropine
Acute toxicity - oral	
Acute toxicity oral (LD ₅₀	2,700.0
mg/kg)	
Species	Rat
Acute toxicity - dermal	
Acute toxicity dermal (LD50 mg/kg)	5,001.0
Species	Rat
ATE dermal (mg/kg)	5,001.0
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 ₅₀ mg/kg)	5,001.0
Species	Rat
Acute toxicity - dermal	
Acute toxicity dermal (LD ₅₀ mg/kg)	5,001.0
Species	Rabbit
ATE dermal (mg/kg)	5,001.0
	2-propenylhexanoate
Acute toxicity - oral	
Acute toxicity oral (LD ₅₀ mg/kg)	218.0
Species	Rat

	640 A
ATE oral (mg/kg)	218.0
Acute toxicity - dermal	
Acute toxicity dermal (LD₅₀ mg/kg)	300.0
Species	Rabbit
ATE dermal (mg/kg)	300.0
Acute toxicity - inhalation	
ATE inhalation (vapours mg/l)	3.0
	Cinnamyl Alcohol
Acute toxicity - oral	
ATE oral (mg/kg)	500.0
	GERANIOL
A suite touisitur exel	GERANIOL
Acute toxicity - oral	2/00.0
Acute toxicity oral (LD₅₀ mg/kg)	3,600.0
Species	Rat
Acute toxicity - dermal	
Acute toxicity dermal (LD ₅₀ mg/kg)	5,001.0
Species	Rabbit
	Mehtyl Decenol
Acute toxicity - oral	
Acute toxicity oral (LD ₅₀ mg/kg)	8,001.0
Species	Rat
Acute toxicity - dermal	
Acute toxicity dermal (LD ₅₀ mg/kg)	5,001.0
Species	Rabbit
	2,4-Dimethylcyclohex-3-ene-1-carbaldehyde
Acute toxicity - oral	
Acute toxicity oral (LD ₅₀ mg/kg)	3,900.0
Species	Rat
Acute toxicity - dermal	
Acute toxicity dermal (LD ₅₀ mg/kg)	5,000.0
Species	Rabbit
ATE dermal (mg/kg)	5,000.0
	EUGENOL

Acute toxicity - oral

Acute toxicity oral (LD ₅₀ 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.
	4-tertiary-butyl-cyclohexyl-acetate
Acute toxicity - oral	
Acute toxicity oral (LD ₅₀ mg/kg)	5,000.0
Species	Rat
ATE oral (mg/kg)	5,000.0
Acute toxicity - dermal	
Acute toxicity dermal (LD ₅₀ mg/kg)	5,001.0
Species	Rabbit
ATE dermal (mg/kg)	5,001.0
	Nerol
Acute toxicity - oral	
Acute toxicity oral (LD ₅₀ mg/kg)	4,500.0
Species	Rat
Acute toxicity - dermal	
Acute toxicity dermal (LD ₅₀ mg/kg)	5,001.0
Species	Rabbit
	Allyl Amyl Glycolate
Acute toxicity - oral	
Acute toxicity oral (LD ₅₀	302.0
mg/kg)	502.0
ATE oral (mg/kg)	500.0
Acute toxicity - dermal	
Acute toxicity dermal (LD ₅₀ mg/kg)	1,105.0
ATE dermal (mg/kg)	1,100.0
	COUMARIN
Acute toxicity - oral	
Acute toxicity oral (LD ₅₀ 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.

DL-bornan-2-one

Acute toxicity - oral

ATE oral (mg/kg) 500.0

SECTION 12: Ecological information

Ecotoxicity

The product is not expected to be hazardous to the environment.

12.1. Toxicity

Toxicity

Not considered toxic to fish.

Ecological information on ingredients.

Fatty acids, C16-18 (even numbered) and C18 unsatd., reaction products with triethanolamine, di-Me sulfate-quaternized		
Acute aquatic toxicity		
Acute toxicity - fish	_C₅, 96 hours: >1 mg/l, Fish	
Acute toxicity - aquatic I invertebrates	EC₅₀, 48 hours: 10000 mg/l, Daphnia magna	
	propan-2-ol	
Acute aquatic toxicity		
Acute toxicity - fish	LC₅₀, 96 hours: 9640 mg/l, Pimephales promelas (Fat-head Minnow)	
Acute toxicity - aquatic invertebrates	LC₅o, 24 hours: 9714 mg/l, Daphnia magna	
Acute toxicity - aquatic plant	s EC₅₀, 72 hours: >100 mg/l, Scenedesmus subspicatus	
Acute toxicity - microorganisms	EC₅₀, : >100 mg/l, Bacteria	
	d-LIMONENE	
Acute aquatic toxicity		
LE(C) ₅₀	0.1 < L(E)C50 ≤ 1	
M factor (Acute)	1	
Acute toxicity - fish	LC₅, 96 hours: 0.7 mg/l, Pimephales promelas (Fat-head Minnow) LC₅, 96 hours: 0.8 mg/l, Fish	
Acute toxicity - aquatic invertebrates	EC₅₀, 48 hours: 0.4 mg/l, Daphnia magna EC₅₀, 48 hours: 69.6 mg/l, Daphnia	
Acute toxicity - aquatic plant	s NOEC, 96 hours: 4 mg/l, ErC50, 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	
Gamma-Undecalactone		
Acute aquatic toxicity		
Acute toxicity - fish	LC₅₀, 96 hours: 6.13 mg/l, Fish	

Acute toxicity - aquatic	EC₅₀, 48 hours: 5.85 mg/l, Daphnia	
invertebrates		
	s EC₅o, 72 hours: 5.94 mg/l, Algae	
Chronic aquatic toxicity		
Chronic toxicity - aquatic invertebrates	EC10, 21 days: 1.02 mg/l, Daphnia	
	hexyl-2-hydroxybenzoate	
Acute aquatic toxicity		
LE(C) ₅₀	0.1 < L(E)C50 ≤ 1	
M factor (Acute)	1	
Acute toxicity - fish	LC₅₀, 96 hours: >100 mg/l, Brachydanio rerio (Zebra Fish)	
Acute toxicity - aquatic	EC₅₀, 48 hours: 0.357 mg/l, Daphnia magna	
invertebrates	EC₅, 96 hours: 0.39 mg/l, Daphnia magna, Freshwater invertebrates, Marinewater invertebrates	
Acute toxicity - aquatic plant	s EC₅₀, 72 hours: 0.61 mg/l, Pseudokirchneriella subcapitata	
Chronic aquatic toxicity		
M factor (Chronic)	1	
	Alpha-Terpineol	
Acute aquatic toxicity		
Acute toxicity - fish	LC₅₀, 96 hours: 70 mg/l, Fish	
Acute toxicity - aquatic invertebrates	EC₅₀, 48 hours: 73 mg/l, Daphnia	
Acute toxicity - aquatic plants	EC₅o, 72 hours: 68 mg/l, Algae	
a-hexylcinnamaldehyde		
Acute aquatic toxicity		
LE(C) ₅₀	0.1 < L(E)C50 ≤ 1	
M factor (Acute)	1	
Acute toxicity - fish	LC₅₀, 96 hours: 1.7 mg/l, Fish LC₅₀, 96 hours: 3.1 mg/l, Brachydanio rerio (Zebra Fish)	
Acute toxicity - aquatic invertebrates	EC₅₀, 48 hours: 3.86 mg/l, Daphnia magna	
Acute toxicity - aquatic plants	s EC₅0, 72 hours: 6.87 mg/l, Pseudokirchneriella subcapitata	
TETRAHYDRO-2-ISOBUTYL-4-METHYLPYRAN-4-OL, Mixed isomers (cis & trans)		
Acute aquatic toxicity		
Acute toxicity - fish	LC₅₀, 96 hours: 354 mg/l, Fish	
Acute toxicity - aquatic invertebrates	EC₅₀, 48 hours: >320 mg/l, Daphnia	
Acute toxicity - aquatic plants IC₅₀, 72 hours: >94 mg/l, Algae		
Chronic aquatic toxicity		
Chronic toxicity - aquatic invertebrates	NOEC, 48 hours: 320 mg/l, Daphnia	
1-	(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-naphthyl)Ethan-1-one	

FLOW Revision date: 31/05/2022 - Revision: 7 Supersedes date: 17/01/2020

Acute aquatic toxicity	
Acute toxicity - fish	LC₅₀, 96 hours: 1.3 mg/l, Fish
Acute toxicity - aquatic invertebrates	EC₅₀, 48 hours: 1.4 mg/l, Daphnia
Acute toxicity - aquatic plants	EC₅₀, 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
	2-propenylhexanoate
Acute aquatic toxicity	
LE(C) ₅₀	0.1 < L(E)C50 ≤ 1
M factor (Acute)	1
Acute toxicity - aquatic invertebrates	EC₅₀, 48 hours: 2 mg/l, Daphnia magna
	Cedr-8-enyl Methyl Ketone (Acetyl Cedrene)
Acute aquatic toxicity	
LE(C)₅₀	0.1 < L(E)C50 ≤ 1
M factor (Acute)	1
Chronic aquatic toxicity	
M factor (Chronic)	1
	Cinnamyl Alcohol
Acute aquatic toxicity	
LE(C) ₅₀	0.1 < L(E)C50 ≤ 1
	GERANIOL
Acute aquatic toxicity	
Acute toxicity - fish	LC₅₀, 96 hours: 14 mg/l, Fish
Acute toxicity - aquatic invertebrates	EC₅, 48 hours: 10.8 mg/l, Daphnia
Acute toxicity - aquatic plants	EC₅o, 72 hours: 13.1 mg/l, Algae
	Mehtyl Decenol
Acute aquatic toxicity	
LE(C) ₅₀	0.1 < L(E)C50 ≤ 1
M factor (Acute)	1
Acute toxicity - fish	LC_{50} , 96 hours: 3 mg/l, Pimephales promelas (Fat-head Minnow)
Acute toxicity - aquatic invertebrates	EC₅₀, 48 hours: 0.4 mg/l, Daphnia magna
Acute toxicity - aquatic plants	EC₅, 72 hours: 3.6 mg/l, Pseudokirchneriella subcapitata NOEC, 72 hours: 1.3 mg/l, Pseudokirchneriella subcapitata

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

	Acute aquatic toxicity	
	Acute toxicity - aquatic invertebrates	EC₅o, 48 hours: 76 mg/l, Daphnia
		Bourgeonal
	Acute aquatic toxicity	
	LE(C) ₅₀	0.1 < L(E)C50 ≤ 1
		EUGENOL
	Acute aquatic toxicity	
	LE(C) ₅₀	0.1 < L(E)C50 ≤ 1
		Myrcene
	Acute aquatic toxicity	
	LE(C) ₅₀	0.1 < L(E)C50 ≤ 1
	M factor (Acute)	1
		Allyl Amyl Glycolate
	Acute aquatic toxicity	
	LE(C) ₅₀ C	0.1 < L(E)C50 ≤ 1
	M factor (Acute) 1	
12.2 Persisten	ce and degradability	
	nd degradability The surfactor	nt(s) contained in this product complies(comply) with the biodegradability criteria in The Detergents Regulations (as amended).
Ecological info	ormation on ingredients.	
		d-LIMONENE
	Persistence and degradability	V Not 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%:
		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%:
		Alpha-Terpineol

Alpha-Terpineol

Persistence and degradability Readily biodegradable.

	Biodegradation	- 80%: 28 days	
		a-hexylcinnamaldehyde	
	Persistence and degradability	Readily biodegradable.	
	Biodegradation	- 97%: 28 days	
	TETRAHYD	PRO-2-ISOBUTYL-4-METHYLPYRAN-4-OL, Mixed isomers (cis & trans)	
	Persistence and degradability	Not readily biodegradable.	
	1-(1,2,3	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	
		2-propenylhexanoate	
	Persistence and degradability	Readily biodegradable.	
		GERANIOL	
	Persistence and degradability	Readily biodegradable.	
	Biodegradation	- 82%: 28 days	
		Mehtyl Decenol	
	Persistence and degradability	Readily biodegradable.	
	Biodegradation	- 73%: 28 days	
		4-tertiary-butyl-cyclohexyl-acetate	
	Persistence and degradability	Readily biodegradable.	
	Biodegradation	- Degradation 75%:	
		Nerol	
	Persistence and degradability	Readily biodegradable.	
		COUMARIN	
	Persistence and degradability	Readily biodegradable.	
12.3. Bioacc	umulative potential		
Bioaccumu	ative potential No data	available on bioaccumulation.	
Ecological information on ingredients.			
		d-LIMONENE	
	Partition coefficient	log Kow: 2.78-5.03	
		Gamma-Undecalactone	
	Partition coefficient	log Pow: 3.6	
		Tetrahydro Linalool	
	Partition coefficient	log Pow: 3.3	

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hexyl-2-hydroxybenzoate

Po	artition coefficient	log Pow: 5.5 (30C)	
		Alpha-Terpineol	
Po	artition coefficient	log Pow: 2.67	
		a-hexylcinnamaldehyde	
		d hexylennidhiddenyde	
Po	artition coefficient	log Pow: 5.3	
TETRAHYDRO-2-ISOBUTYL-4-METHYLPYRAN-4-OL, Mixed isomers (cis & trans)			
Po	artition coefficient	log Pow: 1.65	
1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-naphthyl)Ethan-1-one			
Pa	artition coefficient	log Pow: 5.65	
		GERANIOL	
Pa	artition coefficient	log Pow: 2.6	
		Mehtyl Decenol	
Pa	artition coefficient	log Pow: 3.9	
		2,4-Dimethylcyclohex-3-ene-1-carbaldehyde	
Pa	artition coefficient	log Pow: 2.34	
12.4. Mobility in soil	The		
Mobility The product is non-volatile.			
12.5. Results of PBT and vPvB assessment			
Results of PBT and vPvBThis product does not contain any substances classified as PBT or vPvB.assessment			
12.6. Other adverse effects			
Other adverse effe	cts None	known.	
SECTION 13: Disposal considerations			
13.1. Waste treatment methods			
Disposal methods		se of waste to licensed waste disposal site in accordance with the requirements of the Waste Disposal Authority.	
EURAL Code			
SECTION 14: Transport information			
General	Not r	egulated.	
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 Not applicable. Annex II of MARPOL 73/78 and the IBC Code

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.

SECTION 16: Other information

Revision comments	Revision is due to change of UFI number
Revision date	31/05/2022
Revision	7
Supersedes date	17/01/2020
SDS number	7686/23296
Hazard statements in full	 H226 Flammable liquid and vapour. H302 Harmful if swallowed. 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.