

SAFETY DATA SHEET

SPAFRAIS Encapsulated Softener

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	SPAFRAIS Encapsulated Softener
Product number	7905/21987
UFI	UFI: PPVP-A0WM-2003-492Q

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

Identified uses	Last rinse additive; finishing agent
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1.3. Details of the supplier of the safety data sheet

Supplier	Spectrum Cleaning Solutions Ltd Units 9-10 66 Londesborough Road Scarborough YO12 5AF T: 01723 373509 F: 01723 377726 E: sales@spectrumcleaningsolutions.co.uk
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1.4. Emergency telephone number

Emergency telephone	Spectrum Cleaning and Hygiene Management Solutions: Tel: 01723 373509 (Mon-Fri 9am-5pm)
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	Not Classified
Environmental hazards	Aquatic Chronic 3 - H412

2.2. Label elements

Hazard statements	H412 Harmful to aquatic life with long lasting effects.
Precautionary statements	P273 Avoid release to the environment. P501 Dispose of contents/ container in accordance with national regulations.
Detergent labelling	< 5% aliphatic hydrocarbons, < 5% cationic surfactants, < 5% perfumes, Contains LIMONENE, METHYL-2H or METHYL-4 (3:1) Mixture of EC NO 220-239-6

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

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<p>Fatty acids, C16-18 (even numbered) and C18 unsatd., reaction products with triethanolamine, di-Me sulfate-quaternized 3-5%</p> <p>CAS number: 91995-81-2 EC number: 931-203-0</p>
<p>Classification Aquatic Chronic 3 - H412</p>
<p>propan-2-ol <1%</p> <p>CAS number: 67-63-0 EC number: 200-661-7</p>
<p>Classification Flam. Liq. 2 - H225 Eye Irrit. 2 - H319 STOT SE 3 - H336</p>
<p>hexahydro-hexamethyl-cyclopenta-benzopyran <1%</p> <p>CAS number: 1222-05-5 EC number: 214-946-9 UK REACH registration number: UK-01-0222256558-8-XXXX</p> <p>M factor (Acute) = 1 M factor (Chronic) = 1</p>
<p>Classification Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410</p>
<p>Diethyl phthalate <1%</p> <p>CAS number: 84-66-2 EC number: 201-550-6</p>
<p>Classification Not Classified</p>
<p>d-LIMONENE 0.026%</p> <p>CAS number: 5989-27-5 EC number: 227-813-5</p> <p>M factor (Acute) = 1 M factor (Chronic) = 1</p>
<p>Classification Flam. Liq. 3 - H226 Skin Irrit. 2 - H315 Skin Sens. 1 - H317 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410</p>
<p>Alpha-IsoMethyl Ionone 0.0038%</p> <p>CAS number: 127-51-5 EC number: 204-846-3</p>
<p>Classification Aquatic Chronic 2 - H411</p>

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Linalool 0.0037% CAS number: 78-70-6 EC number: 201-134-4
Classification Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Skin Sens. 1B - H317
Beta Pinene <1% CAS number: 127-91-3 EC number: 204-872-5
Classification Flam. Liq. 3 - H226 Skin Irrit. 2 - H315 Skin Sens. 1 - H317 Asp. Tox. 1 - H304
CITRAL 0.0019% CAS number: 5392-40-5 EC number: 226-394-6
Classification Skin Irrit. 2 - H315 Skin Sens. 1 - H317
COUMARIN 0.0018% CAS number: 91-64-5 EC number: 202-086-7
Classification Acute Tox. 4 - H302 Skin Sens. 1B - H317 Aquatic Chronic 3 - H412
METHANOL <1% CAS number: 67-56-1 EC number: 200-659-6
Classification Flam. Liq. 2 - H225 Acute Tox. 3 - H301 Acute Tox. 3 - H311 Acute Tox. 3 - H331 STOT SE 1 - H370
EUGENOL 0.0015% CAS number: 97-53-0 EC number: 202-589-1
Classification Eye Irrit. 2 - H319 Skin Sens. 1B - H317

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.

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SECTION 4: First aid measures

4.1. Description of first aid measures

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

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

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

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

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

5.1. Extinguishing media

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

Specific hazards	No unusual fire or explosion hazards noted.
Hazardous combustion products	Does not decompose when used and stored as recommended. Thermal decomposition or combustion products may include the following substances: Harmful gases or vapours.

5.3. Advice for firefighters

Protective actions during firefighting	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.
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6.2. Environmental precautions

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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. 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.

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, in a cool, well ventilated place.

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

Diethyl phthalate

Long-term exposure limit (8-hour TWA): WEL 5 mg/m³

Short-term exposure limit (15-minute): WEL 10 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

METHANOL

Long-term exposure limit (8-hour TWA): WEL 200 ppm 266 mg/m³

Short-term exposure limit (15-minute): WEL 250 ppm 333 mg/m³

Sk

WEL = Workplace Exposure Limit.

Sk = Can be absorbed through the skin.

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

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DNEL
 Workers - Dermal; Long term systemic effects: 105 mg/kg bw/day
 Workers - Inhalation; Long term systemic effects: 14.8 mg/m³
 Consumer - Oral; Long term systemic effects: 1.5 mg/kg bw/day
 Consumer - Inhalation; Long term systemic effects: 2.61 mg/m³
 Consumer - Dermal; Long term systemic effects: 37.5 mg/kg bw/day

PNEC
 - Fresh water; 0.022 mg/l
 - marine water; 0.002 mg/l
 - Sediment (Freshwater); 22.48 mg/kg dry weight
 - Sediment (Marinewater); 2.248 mg/kg dry weight
 - Soil; 4.483 mg/kg dry weight
 - STP; 2.96 mg/l

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/m³
 Consumer - Dermal; Long term systemic effects: 319 mg/kg bw/day
 Consumer - Inhalation; Long term systemic effects: 89 mg/m³
 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

Tetrahydro Linalool (CAS: 78-69-3)

DNEL
 Workers - Inhalation; Long term systemic effects: 2.75 mg/m³
 Workers - Dermal; Long term systemic effects: 2.5 mg/kg bw/day
 Workers - Dermal; Short term local effects: 2.76 mg/cm²
 Consumer - Inhalation; Long term systemic effects: 0.68 mg/m³
 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/cm²

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

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

METHANOL (CAS: 67-56-1)

DNEL
 Workers - Inhalation; Long term systemic effects: 130 mg/m³
 Workers - Inhalation; Short term systemic effects: 130 mg/m³
 Workers - Inhalation; Long term local effects: 130 mg/m³
 Workers - Inhalation; Short term local effects: 130 mg/m³
 Workers - Dermal; Long term systemic effects: 20 mg/m³
 Workers - Dermal; Long term systemic effects: 20 mg/kg/day

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DMEL	Workers - Dermal; Long term systemic effects: 40 mg/kg/day
PNEC	Industry - Fresh water; Long term 20.8 mg/l Industry - marine water; Long term 2.08 mg/l Industry - Intermittent release; Long term 1540 mg/l Industry - STP; Long term 100 mg/l Industry - Sediment (Freshwater); Long term 77 mg/kg Sediment (Marinewater); 7.7 mg/kg Soil; 100 mg/kg

8.2. Exposure controls

Protective equipment



Appropriate engineering controls	Provide adequate ventilation if the airborne contamination exceeds occupational exposure limits
Eye/face protection	Safety glasses with side-shields (EN 166).
Hand protection	Chemical resistant PVC/Nitrilrubber gloves (to European standard EN 374 or equivalent). Thickness: 0,4 mm. Penetration time: >480 min (level 6). The selection of specific gloves for a specific application and time of use in a working area, should also take into account other factors on the working space, such as (but not limited to): other chemicals that are possibly used, physical requirements (protection against cutting/drilling, skill, thermal protection), and the instructions/specification of the supplier of gloves.
Other skin and body protection	Wear suitable protective clothing (EN14605)
Hygiene measures	Do not eat, drink or smoke when using this product.
Respiratory protection	Respiratory protection must be used if the airborne contamination exceeds the recommended occupational exposure limit.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Opaque liquid.
Colour	Blue.
Odour	Perfume.
pH	pH (diluted solution): 6-8 1%
Flash point	Not applicable.
Relative density	0.96-1.02 @ 20°C
Solubility(ies)	Soluble in water.

9.2. Other information

Other information	Not known.
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SECTION 10: Stability and reactivity

10.1. Reactivity

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

Stability	No particular stability concerns.
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10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	Under normal conditions of storage and use, hazardous reactions will not occur.
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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 Oxidising agents. Reducing agents.

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.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological effects Not regarded as a health hazard under current legislation.

Acute toxicity - oral

Notes (oral LD₅₀) Based on available data the classification criteria are not met.

Acute toxicity - dermal

Notes (dermal LD₅₀) Based on available data the classification criteria are not met.

Acute toxicity - inhalation

Notes (inhalation LC₅₀) Based on available data the classification criteria are not met.

Skin corrosion/irritation

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

Serious eye damage/irritation

Serious eye damage/irritation Based on available data the classification criteria are not met.

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.

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Inhalation	Spray/mists may cause respiratory tract irritation. This is unlikely to occur but symptoms similar to those of ingestion may develop.
Ingestion	May cause discomfort if swallowed. May cause stomach pain or vomiting.
Skin contact	May cause skin irritation. Prolonged or repeated contact with skin may cause irritation, redness and dermatitis.
Eye contact	May cause 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.
Route of exposure	Skin and/or eye contact Inhalation Ingestion

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) 5,001.0

Species Rat

ATE oral (mg/kg) 5,001.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg) 2,001.0

Species Rat

ATE dermal (mg/kg) 2,001.0

Reproductive toxicity

Reproductive toxicity - fertility Fertility - NOAEL 1000 mg/kg body weight, Oral, Rat F1 One-generation study - NOAEL 1000 mg/kg body weight, Oral, Rat F1

Reproductive toxicity - development Maternal toxicity: - NOAEC: 1000 mg/kg body weight, Oral, Rat Teratogenicity: - NOAEL: 1000 mg/kg body weight, Oral, Rat Developmental toxicity: - NOAEL: 1000 mg/kg body weight, Oral, Rat - : , ,

propan-2-ol

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 5,840.0

Species Rat

ATE oral (mg/kg) 5,840.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg) 13,900.0

Species Rabbit

ATE dermal (mg/kg) 13,900.0

Acute toxicity - inhalation

Acute toxicity inhalation (LC₅₀ vapours mg/l) 10,001.0

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Species	Rat
ATE inhalation (vapours mg/l)	10,001.0
Carcinogenicity	
IARC carcinogenicity	IARC Group 3 Not classifiable as to its carcinogenicity to humans.
Reproductive toxicity	
Reproductive toxicity - fertility	Two-generation study - NOAEL 500 mg/kg body weight, Oral, Rat F1 Two-generation study - NOAEL 500 mg/kg body weight, Oral, Rat F2
Reproductive toxicity - development	Maternal toxicity: - NOAEL: 400 mg/kg body weight, Oral, Rat Developmental toxicity: - NOAEL: 400 mg/kg body weight, Oral, Rat Teratogenicity: - NOAEL: 400 mg/kg body weight, Oral, Rat

hexahydro-hexamethyl-cyclopenta-benzopyran

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 4,640.0

Species Rat

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg) 6,500.0

Species Rabbit

Diethyl phthalate

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 5,592.0

Species Rat

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg) 11,182.0

Species Rabbit

2,6-Dimethyl-7-Octenol-2-ol

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 3,600.0

Species Rat

ATE oral (mg/kg) 3,600.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg) 5,001.0

Species Rabbit

d-LIMONENE

Acute toxicity - oral

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Acute toxicity oral (LD₅₀
mg/kg) 4,400.0

Species Rat

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀
mg/kg) 5,001.0

Species Rabbit

Carcinogenicity

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

2-Tertiary-Butylcyclohexylacetate

Acute toxicity - oral

Acute toxicity oral (LD₅₀
mg/kg) 4,600.0

Species Rat

ATE oral (mg/kg) 4,600.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀
mg/kg) 5,001.0

Species Rabbit

ATE dermal (mg/kg) 5,001.0

Specific target organ toxicity - repeated exposure

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

Tetrahydro Linalool

Acute toxicity - oral

Acute toxicity oral (LD₅₀
mg/kg) 5,001.0

Species Rat

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀
mg/kg) 5,001.0

Species Rabbit

Reproductive toxicity

Reproductive toxicity - fertility Fertility - NOAEL 887-1024 mg/kg body weight, Oral, Rat - NOAEL 338-361 mg/kg body weight, Oral, Rat F1 - NOAEL 278-345 mg/kg body weight, Oral, Rat F0

Reproductive toxicity - development Maternal toxicity: - NOAEL: 150 mg/kg body weight, Oral, Rabbit Developmental toxicity: - NOAEL: 500 mg/kg body weight, Oral, Rabbit

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

Acute toxicity - oral

Acute toxicity oral (LD₅₀
mg/kg) 5,001.0

Species Rat

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Acute toxicity - dermal

Acute toxicity dermal (LD₅₀
mg/kg) 2,001.0

Species Rabbit

4-tertiary-butyl-cyclohexyl-acetate

Acute toxicity - oral

Acute toxicity oral (LD₅₀
mg/kg) 3,370.0

Species Rat

ATE oral (mg/kg) 3,370.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀
mg/kg) 5,001.0

Species Rabbit

ATE dermal (mg/kg) 5,001.0

hexyl-2-hydroxybenzoate

Acute toxicity - oral

Acute toxicity oral (LD₅₀
mg/kg) 5,001.0

Species Rat

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀
mg/kg) 5,001.0

Species Rabbit

1-Propanaminium,N,N,N-trimethyl-3-[(2- methyl-1-oxo-2-propenyl)amino]-,chloride,polymer with 2-propenoic acid,sodium salt

Acute toxicity - oral

Acute toxicity oral (LD₅₀
mg/kg) 5,001.0

Species Rat

ATE oral (mg/kg) 5,001.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀
mg/kg) 5,001.0

Species Rat

ATE dermal (mg/kg) 5,001.0

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

Acute toxicity - oral

Acute toxicity oral (LD₅₀
mg/kg) 3,900.0

Species Rat

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Acute toxicity - dermal

Acute toxicity dermal (LD ₅₀ mg/kg)	5,000.0
Species	Rabbit
ATE dermal (mg/kg)	5,000.0

Tricyclodecanyl Propionate

Acute toxicity - oral

Acute toxicity oral (LD ₅₀ mg/kg)	5,001.0
Species	Rat
ATE oral (mg/kg)	5,001.0

Allyl-3-Cyclohexylpropionate

Acute toxicity - oral

Acute toxicity oral (LD ₅₀ mg/kg)	1,051.0
Species	Rat
ATE oral (mg/kg)	1,051.0

Acute toxicity - dermal

Acute toxicity dermal (LD ₅₀ mg/kg)	1,600.0
Species	Rabbit
ATE dermal (mg/kg)	1,100.0

Acute toxicity - inhalation

Acute toxicity inhalation (LC ₅₀ vapours mg/l)	11.0
ATE inhalation (vapours mg/l)	11.0

2-(2-(4-Methyl-3-Cyclohexen-1-yl) Propyl)-Cyclopentanone

Acute toxicity - oral

Acute toxicity oral (LD ₅₀ mg/kg)	2,001.0
Species	Rat

Acute toxicity - dermal

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

Methyl-Beta Naphthyl Ether

Acute toxicity - dermal

Acute toxicity dermal (LD ₅₀ mg/kg)	5,001.0
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Species	Rabbit
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
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Species	Rat
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Acute toxicity - dermal

Acute toxicity dermal (LD ₅₀ mg/kg)	5,001.0
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Species	Rabbit
ATE dermal (mg/kg)	5,001.0

Alpha-IsoMethyl Ionone

Acute toxicity - oral

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

Acute toxicity dermal (LD ₅₀ mg/kg)	5,001.0
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Species	Rabbit
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Reproductive toxicity

Reproductive toxicity - fertility	Fertility - NOAEL 500 mg/kg body weight, Oral, Rat
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Reproductive toxicity - development	Developmental toxicity: - NOAEL: >30 mg/kg body weight, Oral, Rat Maternal toxicity: - NOAEL: >30 mg/kg body weight, Oral, Rat
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Linalool

Acute toxicity - oral

Acute toxicity oral (LD ₅₀ mg/kg)	2,790.0
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Species	Rat
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Acute toxicity - dermal

Acute toxicity dermal (LD ₅₀ mg/kg)	2,000.0
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Species	Rabbit
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DAMASCONE (DELTA)

Acute toxicity - oral

Acute toxicity oral (LD ₅₀ mg/kg)	1,821.0
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Species	Mouse
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ATE oral (mg/kg)	500.0
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Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg) 5,001.0

Species Rabbit

2-propenylhexanoate

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 218.0

Species Rat

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

CITRAL

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 6,800.0

Species Rat

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg) 2,001.0

Species Rabbit

COUMARIN

Acute toxicity - oral

Acute toxicity oral (LD₅₀ 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.

METHANOL

Acute toxicity - oral

ATE oral (mg/kg) 100.0

Acute toxicity - dermal

ATE dermal (mg/kg) 300.0

Acute toxicity - inhalation

SPAFRAIS Encapsulated Softener

ATE inhalation (vapours mg/l) 3.0

Carcinogenicity

Carcinogenicity NOAEL 466 mg/kg/day, Oral, Rat

Specific target organ toxicity - repeated exposure

STOT - repeated exposure LOAEL 2340 mg/kg, Oral, Monkey NOAEL 1.06 mg/l, Inhalation, Rat

EUGENOL

Acute toxicity - oral

Acute toxicity oral (LD₅₀ 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.

Allyl Amyl Glycolate

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 302.0

ATE oral (mg/kg) 500.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg) 1,105.0

ATE dermal (mg/kg) 1,100.0

Allyl Heptanoate

Acute toxicity - oral

ATE oral (mg/kg) 100.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg) 810.0

Species Rabbit

ATE dermal (mg/kg) 810.0

P-Cresyl Methylether

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 1,920.0

Species Rat

ATE oral (mg/kg) 500.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg) 5,001.0

Species Rabbit

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DAMASCONE (DELTA)

Acute toxicity - oral

Acute toxicity oral (LD₅₀
mg/kg) 1,400.0

Species Mouse

ATE oral (mg/kg) 500.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀
mg/kg) 5,001.0

Species Rabbit

Specific target organ toxicity - repeated exposure

STOT - repeated exposure NOAEL 30 mg/kg, Oral, Rat

reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

Acute toxicity - oral

Acute toxicity oral (LD₅₀
mg/kg) 457.0

Species Rat

ATE oral (mg/kg) 457.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀
mg/kg) 660.0

Species Rabbit

ATE dermal (mg/kg) 660.0

Acute toxicity - inhalation

Species Rabbit

ATE inhalation (dusts/mists
mg/l) 0.5

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.

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

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: 1.91 mg/l, Oncorhynchus mykiss (Rainbow trout)

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: 2.23 mg/l, Daphnia magna

Acute toxicity - aquatic plants ErC50, 72 hours: 2.14 mg/l, Desmodemus subspicatus
EC10, 72 hours: 1.48 mg/l, Desmodemus subspicatus

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Acute toxicity - microorganisms EC₅₀, 0.5 hours: 60 mg/l, PSEUDOMONAS PUTIDA

Chronic aquatic toxicity

Chronic toxicity - fish early life stage NOEC, 30 days: 0.224 mg/l, Danio rerio (zebra fish)

Chronic toxicity - aquatic invertebrates NOEC, 21 days: 0.984 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 LC₅₀, 24 hours: >10000 mg/l, Daphnia magna

Acute toxicity - aquatic plants EC₁₀, 7 days: 1800 mg/l, Scenedesmus subspicatus

Acute toxicity - microorganisms EC₁₀, 16 hours: 1050 mg/l, PSEUDOMONAS PUTIDA

hexahydro-hexamethyl-cyclopenta-benzopyran

Acute aquatic toxicity

LE(C)₅₀ 0.1 < L(E)C₅₀ ≤ 1

M factor (Acute) 1

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: 0.9 mg/l, Daphnia

Acute toxicity - aquatic plants IC₈₀, 72 hours: >0.854 mg/l, Algae

Chronic aquatic toxicity

M factor (Chronic) 1

d-LIMONENE

Acute aquatic toxicity

LE(C)₅₀ 0.1 < L(E)C₅₀ ≤ 1

M factor (Acute) 1

Acute toxicity - fish LC₅₀, 96 hours: 0.7 mg/l, Pimephales promelas (Fat-head Minnow)
LC₅₀, 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 plants 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

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

Acute aquatic toxicity

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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

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 invertebrates EC₅₀, 48 hours: 0.357 mg/l, Daphnia magna
EC₅₀, 96 hours: 0.39 mg/l, Daphnia magna, Freshwater invertebrates, Marinewater invertebrates

Acute toxicity - aquatic plants EC₅₀, 72 hours: 0.61 mg/l, Pseudokirchneriella subcapitata

Chronic aquatic toxicity

M factor (Chronic) 1

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

Acute aquatic toxicity

LE(C)₅₀ 0.1 < L(E)C₅₀ ≤ 1

M factor (Acute) 1

Chronic aquatic toxicity

M factor (Chronic) 1

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

Acute aquatic toxicity

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: 76 mg/l, Daphnia

Allyl-3-Cyclohexylpropionate

Acute aquatic toxicity

LE(C)₅₀ 0.1 < L(E)C₅₀ ≤ 1

M factor (Acute) 1

Acute toxicity - fish LC₅₀, 96 hours: 0.13 mg/l, Fish

Acute toxicity - aquatic invertebrates LC₅₀, 48 hours: 3.8 mg/l, Daphnia

Acute toxicity - aquatic plants IC₅₀, 72 hours: 3 mg/l, Algae
NOEC, 72 hours: 0.74 mg/l, Pseudokirchneriella subcapitata

Chronic aquatic toxicity

M factor (Chronic) 1

2-(2-(4-Methyl-3-Cyclohexen-1-yl) Propyl)-Cyclopentanone

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Acute aquatic toxicity

LE(C) ₅₀	0.1 < L(E)C ₅₀ ≤ 1
M factor (Acute)	1
Acute toxicity - fish	LC ₅₀ , 96 hours: 5.47 mg/l, Brachydanio rerio (Zebra Fish)
Acute toxicity - aquatic invertebrates	EC ₅₀ , 48 hours: 0.49 mg/l, Daphnia magna
Acute toxicity - aquatic plants	EC ₅₀ , 72 hours: 2.9 mg/l, Selenastrum capricornutum

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

Acute aquatic toxicity

Acute toxicity - fish	LC ₅₀ , 96 hours: 1.3 mg/l, Fish
Acute toxicity - aquatic invertebrates	EC ₅₀ , 48 hours: 1.4 mg/l, Daphnia
Acute toxicity - aquatic plants	EC ₅₀ , 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

DAMASCONE (DELTA)

Acute aquatic toxicity

LE(C) ₅₀	0.1 < L(E)C ₅₀ ≤ 1
M factor (Acute)	1
Acute toxicity - fish	LC ₅₀ , 96 hours: 0.97 mg/l, Fish
Acute toxicity - aquatic plants	EC ₅₀ , 72 hours: 2.47 mg/l, Algae

Chronic aquatic toxicity

M factor (Chronic)	1
Chronic toxicity - aquatic invertebrates	NOEC, 21 days: 0.35 mg/l, Daphnia

2-propenylhexanoate

Acute aquatic toxicity

LE(C) ₅₀	0.1 < L(E)C ₅₀ ≤ 1
M factor (Acute)	1
Acute toxicity - aquatic invertebrates	EC ₅₀ , 48 hours: 2 mg/l, Daphnia magna

METHANOL

Acute aquatic toxicity

Acute toxicity - fish	LC ₅₀ , 96 hours: 15400 mg/l, Lepomis macrochirus (Bluegill) LC ₅₀ , 96 hours: >100 mg/l, Pimephales promelas (Fat-head Minnow)
Acute toxicity - aquatic invertebrates	EC ₅₀ , 48 hours: >10000 mg/l, Daphnia magna EC ₅₀ , 96 hours: 22200-23400 mg/l, Freshwater invertebrates EC ₅₀ , 48 hours: 2500 mg/l, Marinewater invertebrates

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Acute toxicity - aquatic plants	EC ₅₀ , 96 hours: 22000 mg/l, Selenastrum capricornutum EC ₅₀ , 96 hours: 16.912 mg/l, Marinewater algae
Acute toxicity - microorganisms	IC ₅₀ , 15 hours: 20000 mg/l, IC ₅₀ , 3 hours: >1000 mg/l,
Chronic aquatic toxicity	
Chronic toxicity - fish early life stage	NOEC, 200 hours: 15800 mg/l, Oryzias latipes (Red killifish)

EUGENOL

Acute aquatic toxicity

LE(C)₅₀ 0.1 < L(E)C50 ≤ 1

Allyl Amyl Glycolate

Acute aquatic toxicity

LE(C)₅₀ 0.1 < L(E)C50 ≤ 1

M factor (Acute) 1

Allyl Heptanoate

Acute aquatic toxicity

LE(C)₅₀ 0.1 < L(E)C50 ≤ 1

M factor (Acute) 1

DAMASCONE (DELTA)

Acute aquatic toxicity

LE(C)₅₀ 0.1 < L(E)C50 ≤ 1

M factor (Acute) 1

Acute toxicity - fish LC₅₀, 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

reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

Acute aquatic toxicity

LE(C)₅₀ 0.001 < L(E)C50 ≤ 0.01

M factor (Acute) 100

Acute toxicity - fish LC₅₀, 96 hours: 0.58 mg/l, Danio rerio (zebra fish)
LC₅₀, 96 hours: 0.19 mg/l, Oncorhynchus mykiss (Rainbow trout)

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: 0.16 mg/l, Daphnia magna

Acute toxicity - aquatic plants IC₅₀, 72 hours: 0.379 mg/l, Pseudokirchneriella subcapitata
NOEC, 72 hours: 0.0012 mg/l, Pseudokirchneriella subcapitata
EC₅₀, 48 hours: 0.0052 mg/l, Skeletonema costatum
NOEC, 48 hours: 0.00064 mg/l, Skeletonema costatum
EC₅₀, 72 hours: 0.027 mg/l, Selenastrum capricornutum

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Acute toxicity - microorganisms EC₂₀, 3 hours: 0.97 mg/l, Activated sludge
EC₅₀, 3 hours: 7.92 mg/l, Activated sludge

Chronic aquatic toxicity

M factor (Chronic) 100

Chronic toxicity - fish early life stage NOEC, 28 days: 0.098 mg/l, Oncorhynchus mykiss (Rainbow trout)

Chronic toxicity - aquatic invertebrates NOEC, 21 days: 0.004 mg/l, Daphnia

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.

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

Biodegradation OECD 301B - Degradation 98.9%: 28 days

propan-2-ol

Biodegradation Directive 67/548/EEC, Annex V, C.5 - Degradation 53%: 5 days

hexahydro-hexamethyl-cyclopenta-benzopyran

Persistence and degradability Not readily biodegradable.

2,6-Dimethyl-7-Octenol-2-ol

Persistence and degradability Readily biodegradable.

Biodegradation - 73%: 28 days

d-LIMONENE

Persistence and degradability Not readily biodegradable.

2-Tertiary-Butylcyclohexylacetate

Biodegradation Activated sludge - Degradation 43 %: ~ 28 days

Tetrahydro Linalool

Persistence and degradability Readily biodegradable.

Biodegradation OECD 301F - Degradation 60%: 28 days

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

Persistence and degradability Not readily biodegradable.

4-tertiary-butyl-cyclohexyl-acetate

Persistence and degradability Readily biodegradable.

Biodegradation - Degradation 75%:

hexyl-2-hydroxybenzoate

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Persistence and degradability Readily biodegradable.

Biodegradation OECD 301F - 43%: 28 days
Directive 67/548/EEC Annex V, C.4.D - Degradation 20%:

Allyl-3-Cyclohexylpropionate

Persistence and degradability Readily biodegradable.

Biodegradation - 86%: 28 days

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

Persistence and degradability Not readily biodegradable.

Biodegradation - 11%: 28 days

Alpha-IsoMethyl Ionone

Biodegradation - Degradation 42.51%: 28 days

DAMASCONE (DELTA)

Persistence and degradability Not readily biodegradable.

Biodegradation - 16%: 28 days

2-propenylhexanoate

Persistence and degradability Readily biodegradable.

COUMARIN

Persistence and degradability Readily biodegradable.

METHANOL

Persistence and degradability The product is readily biodegradable.

Biodegradation Water - Degradation 95%: 20 days

Chemical oxygen demand 1.42

12.3. Bioaccumulative potential

Bioaccumulative potential No data available on bioaccumulation.

Ecological information on ingredients.

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

Partition coefficient log Pow: 4.725

propan-2-ol

Partition coefficient log Pow: 0.05

hexahydro-hexamethyl-cyclopenta-benzopyran

Partition coefficient log Pow: 5.3

d-LIMONENE

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Partition coefficient log Kow: 2.78-5.03

2-Tertiary-Butylcyclohexylacetate

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

Tetrahydro Linalool

Bioaccumulative potential BCF: 99.87,

Partition coefficient log Pow: 3.3

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

Partition coefficient log Pow: 1.65

hexyl-2-hydroxybenzoate

Partition coefficient log Pow: 5.5 (30C)

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

Partition coefficient log Pow: 2.34

Allyl-3-Cyclohexylpropionate

Partition coefficient log Pow: 4.3

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

Partition coefficient log Pow: 5.65

METHANOL

Partition coefficient log Pow: -0.82 / -0.66

DAMASCONE (DELTA)

Partition coefficient log Pow: 4.2

reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

Bioaccumulative potential BCF: ~ 3.16,

Partition coefficient log Kow: ≤ 0.71

12.4. Mobility in soil

Mobility The product is soluble in water.

Ecological information on ingredients.

METHANOL

Mobility Soluble in water.

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.

SPAFRAIS Encapsulated Softener

METHANOL

Results of PBT and vPvB
assessment

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

12.6. Other adverse effects

Other adverse effects None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

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

EURAL Code

SECTION 14: Transport information

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

14.1. UN number

Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

No transport warning sign required.

14.4. Packing group

Not applicable.

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant
No.

14.6. Special precautions for user

Not applicable.

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

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

SECTION 15: Regulatory information

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

Drug Precursors Regulation
(273/2004)

Danish product registration
number

Danish national regulations

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

Inventories

SPAFRAIS Encapsulated Softener

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).
 EC₅₀: 50% of maximal Effective Concentration.
 PBT: Persistent, Bioaccumulative and Toxic substance.
 vPvB: Very Persistent and Very Bioaccumulative.

Revision comments Revised classification.

Revision date 13/05/2021

Revision 8

Supersedes date 03/01/2020

SDS number 7905/21987

Hazard statements in full

H225 Highly flammable liquid and vapour.
 H226 Flammable liquid and vapour.
 H301 Toxic if swallowed.
 H302 Harmful if swallowed.
 H304 May be fatal if swallowed and enters airways.
 H311 Toxic in contact with skin.
 H315 Causes skin irritation.
 H317 May cause an allergic skin reaction.
 H319 Causes serious eye irritation.
 H331 Toxic if inhaled.
 H336 May cause drowsiness or dizziness.
 H370 Causes damage to organs .
 H400 Very toxic to aquatic life.
 H410 Very toxic to aquatic life with long lasting effects.
 H411 Toxic to aquatic life with long lasting effects.
 H412 Harmful to aquatic life with long lasting effects.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.