

SAFETY DATA SHEET

MELANGE

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	MELANGE
Product number	7197/21990
UFI	UFI: MVWM-007J-600Q-TKGS

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	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	Eye Dam. 1 - H318
Environmental hazards	Aquatic Chronic 3 - H412

2.2. Label elements

Hazard pictograms



Signal word	Danger
Hazard statements	H318 Causes serious eye damage. H412 Harmful to aquatic life with long lasting effects.
Precautionary statements	P273 Avoid release to the environment. 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. P501 Dispose of contents/ container in accordance with national regulations.
Contains	Alcohols, C13-15, branched and linear, ethoxylated
Detergent labelling	15 - < 30% non-ionic surfactants, 5 - < 15% aliphatic hydrocarbons, < 5% optical brighteners, < 5% perfumes

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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

<p>PEG-5 C13 Oxo Alcohol</p> <p>CAS number: 69011-36-5 EC number: 931-138-8</p>	15-30%
<p>Classification</p> <p>Eye Irrit. 2 - H319</p> <p>Aquatic Chronic 3 - H412</p>	
<p>Alcohols, C13-15, branched and linear, ethoxylated</p> <p>CAS number: 157627-86-6 EC number: 931-954-4</p>	10-15%
<p>Classification</p> <p>Acute Tox. 4 - H302</p> <p>Eye Dam. 1 - H318</p> <p>Aquatic Chronic 3 - H412</p>	
<p>2,2'-OXYBISETHANOL</p> <p>CAS number: 111-46-6 EC number: 203-872-2</p>	5-10%
<p>Classification</p> <p>Acute Tox. 4 - H302</p>	
<p>ETHANOL</p> <p>CAS number: 64-17-5 EC number: 200-578-6</p>	3-5%
<p>Classification</p> <p>Flam. Liq. 2 - H225</p> <p>Acute Tox. 4 - H332</p>	
<p>2-(2-butoxyethoxy)ethanol</p> <p>CAS number: 112-34-5 EC number: 203-961-6</p>	1-3%
<p>Classification</p> <p>Eye Irrit. 2 - H319</p>	
<p>METHANOL</p> <p>CAS number: 67-56-1 EC number: 200-659-6</p>	<1%
<p>Classification</p> <p>Flam. Liq. 2 - H225</p> <p>Acute Tox. 3 - H301</p> <p>Acute Tox. 3 - H311</p> <p>Acute Tox. 3 - H331</p> <p>STOT SE 1 - H370</p>	

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<p>d-LIMONENE 0.0046%</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</p> <p>Flam. Liq. 3 - H226 Skin Irrit. 2 - H315 Skin Sens. 1 - H317 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410</p>
<p>a-hexylcinnamaldehyde 0.0046%</p> <p>CAS number: 101-86-0 EC number: 202-983-3</p> <p>M factor (Acute) = 1</p>
<p>Classification</p> <p>Skin Sens. 1B - H317 Aquatic Acute 1 - H400 Aquatic Chronic 2 - H411</p>
<p>Linalool 0.0028%</p> <p>CAS number: 78-70-6 EC number: 201-134-4</p>
<p>Classification</p> <p>Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Skin Sens. 1B - H317</p>
<p>Alpha-IsoMethyl Ionone 0.0011%</p> <p>CAS number: 127-51-5 EC number: 204-846-3</p>
<p>Classification</p> <p>Aquatic Chronic 2 - H411</p>
<p>Diethyl phthalate <1%</p> <p>CAS number: 84-66-2 EC number: 201-550-6</p>
<p>Classification</p> <p>Not Classified</p>
<p>CITRAL 0.0004%</p> <p>CAS number: 5392-40-5 EC number: 226-394-6</p>
<p>Classification</p> <p>Skin Irrit. 2 - H315 Skin Sens. 1 - H317</p>

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GERANIOL	0.0002%
CAS number: 106-24-1	EC number: 203-377-1
Classification Skin Irrit. 2 - H315 Eye Dam. 1 - H318 Skin Sens. 1 - H317	

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

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	This is unlikely to occur but symptoms similar to those of ingestion may develop. Spray/mists may cause respiratory tract irritation.
Ingestion	May cause stomach pain or vomiting.
Skin contact	May cause skin irritation.
Eye contact	Severe irritation, burning and tearing.

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

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

5.1. Extinguishing media

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

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

5.3. Advice for firefighters

Protective actions during firefighting	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.

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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 Dangerous for the environment if discharged into watercourses. Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Absorb in vermiculite, dry sand or earth and place into containers. Flush spilled material into suitable retaining areas or container with large quantities of water. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage. Dispose of contents/container in accordance with national regulations.

6.4. Reference to other sections

Reference to other sections Wear protective clothing as described in Section 8 of this safety data sheet. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards. For waste disposal, see Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Wear protective clothing as described in Section 8 of this safety data sheet. Keep away from food, drink and animal feeding stuffs. Handle all packages and containers carefully to minimise spills. Avoid contact with skin and eyes. Keep container tightly sealed when not in use.

Advice on general occupational hygiene Wash promptly if skin becomes contaminated. Take off contaminated clothing. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Keep above the chemical's freezing point to avoid rupturing the container. Keep container tightly closed.

Storage class Chemical storage.

7.3. Specific end use(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure controls/Personal protection

8.1. Control parameters

Occupational exposure limits

2,2'-OXYBIETHANOL

Long-term exposure limit (8-hour TWA): WEL 23 ppm 101 mg/m³

ETHANOL

Long-term exposure limit (8-hour TWA): WEL 1000 ppm 1920 mg/m³

2-(2-butoxyethoxy)ethanol

Long-term exposure limit (8-hour TWA): WEL 10 ppm 67.5 mg/m³

Short-term exposure limit (15-minute): WEL 15 ppm 101.2 mg/m³

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

Diethyl phthalate

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

Short-term exposure limit (15-minute): WEL 10 mg/m³

WEL = Workplace Exposure Limit.

Sk = Can be absorbed through the skin.

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PEG-5 C13 Oxo Alcohol (CAS: 69011-36-5)

DNEL Workers - Inhalation; Long term systemic effects: 294 mg/m³
 Consumer - Dermal; Long term systemic effects: 1250 mg/kg
 Consumer - Oral; Long term systemic effects: 25 mg/kg
 Workers - Dermal; Long term systemic effects: 2080 mg/kg
 Consumer - Inhalation; Long term systemic effects: 87 mg/m³

PNEC Sediment (Freshwater); 0.604 mg/kg
 Soil; 0.1 mg/kg
 Sediment (Marinewater); 0.0604 mg/kg
 Fresh water; 0.074 mg/l
 Intermittent release; 0.015 mg/l
 marine water; 0.0074 mg/l
 STP; 1.4 mg/l

2,2'-OXYBISETHANOL (CAS: 111-46-6)

DNEL Workers - Inhalation; Long term systemic effects: 44 mg/m³
 Workers - Inhalation; Long term local effects: 60 mg/m³
 Workers - Dermal; Long term systemic effects: 43 mg/kg bw/day
 Consumer - Inhalation; Long term systemic effects: 12 mg/m³
 Consumer - Inhalation; Long term local effects: 12 mg/m³
 Consumer - Dermal; Long term systemic effects: 21 mg/kg bw/day

PNEC Fresh water; 10 mg/l
 marine water; Long term 1 mg/l
 Sediment (Freshwater); 20.9 mg/kg
 Soil; Long term 1.53 mg/kg
 STP; 199.5 mg/l
 Intermittent release; 10 mg/l
 Sediment (Marinewater); 2.09 mg/kg

ETHANOL (CAS: 64-17-5)

DNEL Industry - Inhalation; Short term local effects: 1900 mg/m³
 Industry - Dermal; Long term systemic effects: 343 mg/kg/day
 Industry - Inhalation; Long term systemic effects: 950 mg/m³
 Consumer - Inhalation; Short term local effects: 950 mg/m³
 Consumer - Dermal; Long term systemic effects: 206 mg/kg/day
 Consumer - Inhalation; Long term systemic effects: 114 mg/m³
 Consumer - Oral; Long term systemic effects: 87 mg/kg/day

PNEC Industry - Fresh water; Long term 0.96 mg/l
 Industry - marine water; Long term 0.79 mg/l
 Industry - Intermittent release; Long term 2.75 mg/l
 Industry - STP; Long term 580 mg/l
 Industry - Sediment (Freshwater); Long term 3.6 mg/kg
 Industry - Sediment (Marinewater); Long term 2.9 mg/kg
 Industry - Soil; Long term 0.63 mg/kg

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

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DNEL

Workers - Inhalation; Long term systemic effects: 67.5 mg/m³
 Workers - Dermal; Long term systemic effects: 83 mg/kg/day
 Workers - Inhalation; Short term local effects: 101.2 mg/m³
 Workers - Inhalation; Long term local effects: 67.5 mg/m³
 Consumer - Inhalation; Short term local effects: 60.7 mg/m³
 Consumer - Inhalation; Long term systemic effects: 40.5 mg/m³
 Consumer - Dermal; Long term systemic effects: 50 mg/kg/day
 Consumer - Oral; Long term systemic effects: 5 mg/kg/day
 Consumer - Inhalation; Long term local effects: 40.5 mg/m³

PNEC

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

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

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

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

DNEL

Workers - Inhalation; Long term systemic effects: 0.078 mg/m³
 Workers - Inhalation; Short term local effects: 6.28 mg/m³
 Workers - Dermal; Long term systemic effects: 18.2 mg/kg bw/day
 Workers - Dermal; Long term local effects: 0.525 mg/cm²
 Consumer - Inhalation; Long term systemic effects: 0.019 mg/m³
 Consumer - Inhalation; Short term local effects: 4.71 mg/m³
 Consumer - Dermal; Long term systemic effects: 9.11 mg/kg bw/day
 Consumer - Dermal; Long term local effects: 0.0787 mg/cm²
 Consumer - Dermal; Short term local effects: 0.0787 mg/cm²
 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)

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DNEL	<p>Workers - Inhalation; Long term systemic effects: 2.75 mg/m³</p> <p>Workers - Dermal; Long term systemic effects: 2.5 mg/kg bw/day</p> <p>Workers - Dermal; Short term local effects: 2.76 mg/cm²</p> <p>Consumer - Inhalation; Long term systemic effects: 0.68 mg/m³</p> <p>Consumer - Oral; Long term systemic effects: 0.2 mg/kg bw/day</p> <p>Consumer - Dermal; Long term systemic effects: 1.25 mg/kg bw/day</p> <p>Consumer - Dermal; Short term local effects: 2.76 mg/cm²</p>
PNEC	<p>Fresh water; 0.0089 mg/l</p> <p>marine water; 0.00089 mg/l</p> <p>STP; 450 mg/l</p> <p>Sediment (Freshwater); 0.0821 mg/kg</p> <p>Sediment (Marinewater); 0.00821 mg/kg</p> <p>Soil; 0.0112 mg/kg</p>

GERANIOL (CAS: 106-24-1)

DNEL	<p>Workers - Inhalation; Long term systemic effects: 161.6 mg/m³</p> <p>Workers - Dermal; Long term systemic effects: 12.5 mg/kg</p> <p>Consumer - Oral; Long term systemic effects: 13.75 mg/kg</p> <p>Consumer - Inhalation; Long term systemic effects: 47.8 mg/m³</p> <p>Consumer - Dermal; Long term systemic effects: 7.5 mg/kg</p>
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8.2. Exposure controls

Protective equipment



Appropriate engineering controls	No specific ventilation requirements.
Eye/face protection	Safety glasses with side-shields (EN 166).
Hand protection	Chemical resistant PVC/Nitrilrubber gloves (to European standard EN 374 or equivalent). Thickness: 0,4 mm. Penetration time: >480 min (level 6). The selection of specific gloves for a specific application and time of use in a working area, should also take into account other factors on the working space, such as (but not limited to): other chemicals that are possibly used, physical requirements (protection against cutting/drilling, skill, thermal protection), and the instructions/specification of the supplier of gloves.
Other skin and body protection	Wear suitable protective clothing (EN14605)
Hygiene measures	Do not eat, drink or smoke when using this product.
Respiratory protection	Respiratory protection must be used if the airborne contamination exceeds the recommended occupational exposure limit.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Liquid.
Colour	Blue-green.
Odour	Mild (or faint).
pH	pH (concentrated solution): 6-8
Relative density	0.95-1.01 @ 20°C
Solubility(ies)	Soluble in water.

9.2. Other information

Other information	Not determined.
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SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity There are no known reactivity hazards associated with this product.

10.2. Chemical stability

Stability Stable at normal ambient temperatures and when used as recommended.

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: Oxidising agents. Reducing agents.

10.5. Incompatible materials

Materials to avoid Strong oxidising agents. Strong 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.

ATE oral (mg/kg) 3,508.77

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

Skin corrosion/irritation May cause skin irritation.

Animal data

Based on available data the classification criteria are not met.

Serious eye damage/irritation

Serious eye damage/irritation Causes serious eye damage.

Respiratory sensitisation

Respiratory sensitisation Based on available data the classification criteria are not met.

Skin sensitisation

Skin sensitisation Based on available data the classification criteria are not met.

Germ cell mutagenicity

Genotoxicity - in vitro Based on available data the classification criteria are not met.

Carcinogenicity

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

IARC carcinogenicity

None of the ingredients are listed or exempt.

Reproductive toxicity

Reproductive toxicity - fertility Based on available data the classification criteria are not met.

Reproductive toxicity - development

Based on available data the classification criteria are not met.

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Specific target organ toxicity - single exposure

STOT - single exposure Not classified as a specific target organ toxicant after a single exposure.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure Not classified as a specific target organ toxicant after repeated exposure.

Aspiration hazard

Aspiration hazard Based on available data the classification criteria are not met.

General information

The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

Inhalation

Spray/mists may cause respiratory tract irritation. This is unlikely to occur but symptoms similar to those of ingestion may develop.

Ingestion

Ingestion may cause severe irritation of the mouth, the oesophagus and the gastrointestinal tract.

Skin contact

Irritating to skin.

Eye contact

Risk of serious damage to eyes. Symptoms following overexposure may include the following: Redness. Pain.

Acute and chronic health hazards

This product may cause skin and eye irritation. Repeated exposure may cause chronic eye irritation. Mild dermatitis, allergic skin rash.

Route of exposure

Skin and/or eye contact
Ingestion

Toxicological information on ingredients.

PEG-5 C13 Oxo Alcohol

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

Specific target organ toxicity - repeated exposure

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

Alcohols, C13-15, branched and linear, ethoxylated

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 1,150.0

Species Rat

ATE oral (mg/kg) 500.0

Acute toxicity - dermal

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

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

2,2'-OXYBISETHANOL

Acute toxicity - oral

Acute toxicity oral (LD ₅₀ mg/kg)	1,000.0
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Species	Human
ATE oral (mg/kg)	1,000.0

Acute toxicity - dermal

Acute toxicity dermal (LD ₅₀ mg/kg)	13,330.0
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Species	Rabbit
ATE dermal (mg/kg)	13,330.0

Acute toxicity - inhalation

Acute toxicity inhalation (LC ₅₀ dust/mist mg/l)	4.7
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Species	Rat
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Reproductive toxicity

Reproductive toxicity - fertility	Fertility - NOAEL 3060 mg/kg bw/day, Oral, Mouse
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Reproductive toxicity - development	Developmental toxicity: - NOAEL: 1000 mg/kg bw/day, Oral, Rabbit Maternal toxicity: - NOAEL: 1000 mg/kg bw/day, Oral, Rabbit
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Specific target organ toxicity - single exposure

STOT - single exposure	NOAEL 936 mg/kg bw/day, Oral, Rat NOAEL 2200 mg/kg bw/day, Dermal,
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ETHANOL

Acute toxicity - oral

Acute toxicity oral (LD ₅₀ mg/kg)	10,470.0
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Species	Rat
ATE oral (mg/kg)	10,470.0

Acute toxicity - dermal

Acute toxicity dermal (LD ₅₀ mg/kg)	15,800.0
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Species	Rat
ATE dermal (mg/kg)	15,800.0

Acute toxicity - inhalation

Acute toxicity inhalation (LC ₅₀ vapours mg/l)	20.0
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Species	Rat
ATE inhalation (vapours mg/l)	20.0

2-(2-butoxyethoxy)ethanol

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Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 2,410.0

Species Mouse

ATE oral (mg/kg) 2,410.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg) 2,764.0

Species Rabbit

ATE dermal (mg/kg) 2,764.0

Acute toxicity - inhalation

Acute toxicity inhalation (LC₅₀ vapours mg/l) 29.0

Species Rat

ATE inhalation (vapours mg/l) 29.0

Bis-(triazinylamino)-stilbene disulfonic acid derivative (R0130)

Acute toxicity - oral

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

Species Rat

Acute toxicity - dermal

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

Species Rabbit

ATE dermal (mg/kg) 2,001.0

METHANOL

Acute toxicity - oral

ATE oral (mg/kg) 100.0

Acute toxicity - dermal

ATE dermal (mg/kg) 300.0

Acute toxicity - inhalation

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

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

Acute toxicity - oral

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

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Species	Rat
ATE oral (mg/kg)	3,600.0

Acute toxicity - dermal

Acute toxicity dermal (LD ₅₀ mg/kg)	5,001.0
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Species	Rabbit
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4-tertiary-butyl-cyclohexyl-acetate

Acute toxicity - oral

Acute toxicity oral (LD ₅₀ mg/kg)	3,370.0
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Species	Rat
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ATE oral (mg/kg)	3,370.0
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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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ATE dermal (mg/kg)	5,001.0
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d-LIMONENE

Acute toxicity - oral

Acute toxicity oral (LD ₅₀ mg/kg)	4,400.0
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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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Carcinogenicity

IARC carcinogenicity	IARC Group 3 Not classifiable as to its carcinogenicity to humans.
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α-hexylcinnamaldehyde

Acute toxicity - oral

Acute toxicity oral (LD ₅₀ mg/kg)	3,100.0
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Species	Rat
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Acute toxicity - dermal

Acute toxicity dermal (LD ₅₀ mg/kg)	3,001.0
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Species	Rabbit
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ATE dermal (mg/kg)	3,001.0
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Linalool

Acute toxicity - oral

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Acute toxicity oral (LD₅₀
mg/kg) 2,790.0

Species Rat

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀
mg/kg) 2,000.0

Species Rabbit

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

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

Alpha-IsoMethyl Ionone

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 500 mg/kg body weight, Oral, Rat

MELANGE

Reproductive toxicity -
development

Developmental toxicity: - NOAEL: >30 mg/kg body weight, Oral, Rat Maternal toxicity: -
NOAEL: >30 mg/kg body weight, Oral, Rat

Eucalyptol

Acute toxicity - oral

Acute toxicity oral (LD₅₀
mg/kg) 2,480.0

Species Rat

Acute toxicity - dermal

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

Species Rabbit

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

Acute toxicity - oral

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

Species Rat

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀
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

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

CITRAL

Acute toxicity - oral

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

Species Rat

Acute toxicity - dermal

MELANGE

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

Species Rabbit

GERANIOL

Acute toxicity - oral

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

Species Rat

Acute toxicity - dermal

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

Species Rabbit

Dodecanal

Acute toxicity - oral

Acute toxicity oral (LD₅₀
mg/kg) 23,101.0

Species Rat

ATE oral (mg/kg) 23,101.0

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

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.

PEG-5 C13 Oxo Alcohol

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: >1-10 mg/l, Leuciscus idus (Golden orfe)

MELANGE

Acute toxicity - aquatic invertebrates	EC ₅₀ , 48 hours: >1-10 mg/l, Daphnia magna
Acute toxicity - aquatic plants	EC ₅₀ , 72 hours: 1-10 mg/l, Scenedesmus subspicatus EC ₁₀ , 72 hours: >0.1-1 mg/l, Skeletonema costatum
Acute toxicity - microorganisms	EC ₁₀ , 17 hours: >2500 mg/l, Activated sludge
Chronic aquatic toxicity	
Chronic toxicity - fish early life stage	NOEC, : >1 mg/l, Fish
Chronic toxicity - aquatic invertebrates	NOEC, 21 days: >1 mg/l, Daphnia magna

Alcohols, C13-15, branched and linear, ethoxylated

Acute aquatic toxicity	
Acute toxicity - fish	LC ₅₀ , 96 hours: >1-10 mg/l, Brachydanio rerio (Zebra Fish)
Acute toxicity - aquatic invertebrates	EC ₅₀ , 48 hours: >1-10 mg/l, Daphnia magna
Acute toxicity - aquatic plants	EC ₅₀ , 72 hours: >1-10 mg/l, Scenedesmus subspicatus
Acute toxicity - microorganisms	EC ₁₀ , : >1000 mg/l, Activated sludge
Chronic aquatic toxicity	
Chronic toxicity - aquatic invertebrates	NOEC, 21 days: >0.1-1 mg/l, Daphnia magna

2,2'-OXYBISETHANOL

Acute aquatic toxicity	
Acute toxicity - fish	LC ₅₀ , 96 hours: 75200 mg/l, Pimephales promelas (Fat-head Minnow)
Acute toxicity - aquatic invertebrates	EC ₅₀ , 48 hours: 48900 mg/l, Daphnia magna
Acute toxicity - aquatic plants	EC ₅₀ , 96 hours: 6500-13000 mg/l, Pseudokirchneriella subcapitata
Acute toxicity - microorganisms	EC ₂₀ , 30 minutes: >1995 mg/l, Activated sludge
Chronic aquatic toxicity	
Chronic toxicity - aquatic invertebrates	NOEC, 21 days: >15000 mg/l, Daphnia magna

ETHANOL

Acute aquatic toxicity	
Acute toxicity - fish	LC ₅₀ , 96 hours: 13000 mg/l, Oncorhynchus mykiss (Rainbow trout) LC ₅₀ , 48 hours: >100 mg/l, Leuciscus idus (Golden orfe) LC ₅₀ , 96 hours: 14200 mg/l, Pimephales promelas (Fat-head Minnow) LC ₅₀ , 96 hours: 12000-16000 mg/l, Oryzias latipes (Red killifish)
Acute toxicity - aquatic invertebrates	EC ₅₀ , 48 hours: 12340 mg/l, Daphnia magna
Acute toxicity - aquatic plants	EC ₅₀ , 48 hours: >100 mg/l, Selenastrum capricornutum EC ₅₀ , 72 hours: 275 mg/l, Chlorella vulgaris
Chronic aquatic toxicity	

MELANGE

Chronic toxicity - aquatic invertebrates NOEC, 9 days: 9.6 mg/l, Daphnia magna

2-(2-butoxyethoxy)ethanol

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: 2700 mg/l, Fish
LC₅₀, 96 hours: 1300 mg/l, Lepomis macrochirus (Bluegill)

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: >100 mg/l, Daphnia magna

Acute toxicity - aquatic plants ECr₅₀, 96 hours: > 100 mg/l, Scenedesmus subspicatus
EyC₅₀, 96 hours: > 100 mg/l, Scenedesmus subspicatus

Acute toxicity - microorganisms EC₁₀, 0.5 hour: > 1995 mg/l, Activated sludge
EC₅₀, : 255 mg/l, Activated sludge

Bis-(triazinylamino)-stilbene disulfonic acid derivative (R0130)

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: >100 mg/l, Oncorhynchus mykiss (Rainbow trout)

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: >100 mg/l, Daphnia magna

Acute toxicity - aquatic plants IC₅₀, 72 hours: >100 mg/l, Algae

Acute toxicity - microorganisms EC₅₀, : >100 mg/l, Activated sludge

METHANOL

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: 15400 mg/l, Lepomis macrochirus (Bluegill)
LC₅₀, 96 hours: >100 mg/l, Pimephales promelas (Fat-head Minnow)

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: >10000 mg/l, Daphnia magna
EC₅₀, 96 hours: 22200-23400 mg/l, Freshwater invertebrates
EC₅₀, 48 hours: 2500 mg/l, Marinewater invertebrates

Acute toxicity - aquatic plants EC₅₀, 96 hours: 22000 mg/l, Selenastrum capricornutum
EC₅₀, 96 hours: 16.912 mg/l, Marinewater algae

Acute toxicity - microorganisms IC₅₀, 15 hours: 20000 mg/l,
IC₅₀, 3 hours: >1000 mg/l,

Chronic aquatic toxicity

Chronic toxicity - fish early life stage NOEC, 200 hours: 15800 mg/l, Oryzias latipes (Red killifish)

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

MELANGE

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

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 EC₅₀, 72 hours: 6.87 mg/l, Pseudokirchneriella subcapitata

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

Allyl Amyl Glycolate

Acute aquatic toxicity

LE(C)₅₀ 0.1 < L(E)C50 ≤ 1

M factor (Acute) 1

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

Acute aquatic toxicity

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

GERANIOL

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: 14 mg/l, Fish

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: 10.8 mg/l, Daphnia

Acute toxicity - aquatic plants EC₅₀, 72 hours: 13.1 mg/l, Algae

Oxacyclohexadecen-2-one

Acute aquatic toxicity

LE(C)₅₀ 0.1 < L(E)C50 ≤ 1

MELANGE

M factor (Acute) 1

Chronic aquatic toxicity

M factor (Chronic) 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

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.

PEG-5 C13 Oxo Alcohol

Biodegradation OECD 301B - Degradation >60%: 28 days

Chemical oxygen demand ~ 2438 mg/g

Alcohols, C13-15, branched and linear, ethoxylated

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

Chemical oxygen demand 2430 mg/g

2,2'-OXYBISETHANOL

Biodegradation OECD 301A - Degradation 90/100%: 28 days

ETHANOL

Persistence and degradability The product is biodegradable.

Biodegradation - Degradation 84%: 20 days

Biological oxygen demand 1000 mg/g

Chemical oxygen demand 1900 mg/g

2-(2-butoxyethoxy)ethanol

Persistence and degradability The product is biodegradable. >70% Readily biodegradable

Biodegradation OECD 302B - Degradation 100%: 28 days

METHANOL

Persistence and degradability The product is readily biodegradable.

Biodegradation Water - Degradation 95%: 20 days

MELANGE

Chemical oxygen demand 1.42

4-tertiary-butyl-cyclohexyl-acetate

Persistence and degradability Readily biodegradable.

Biodegradation - Degradation 75%:

d-LIMONENE

Persistence and degradability Not readily biodegradable.

a-hexylcinnamaldehyde

Persistence and degradability Readily biodegradable.

Biodegradation - 97%: 28 days

Tetrahydro Linalool

Persistence and degradability Readily biodegradable.

Biodegradation OECD 301F - Degradation 60%: 28 days

Alpha-IsoMethyl Ionone

Biodegradation - Degradation 42.51%: 28 days

GERANIOL

Persistence and degradability Readily biodegradable.

Biodegradation - 82%: 28 days

12.3. Bioaccumulative potential

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

Ecological information on ingredients.

2,2'-OXYBISETHANOL

Bioaccumulative potential BCF: 100, Leuciscus idus (Golden orfe) log Pow: -1.98,

ETHANOL

Partition coefficient log Pow: -0.31

2-(2-butoxyethoxy)ethanol

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

Partition coefficient log Pow: 1.00

METHANOL

Partition coefficient log Pow: -0.82 / -0.66

d-LIMONENE

Partition coefficient log Kow: 2.78-5.03

a-hexylcinnamaldehyde

MELANGE

Partition coefficient log Pow: 5.3

Tetrahydro Linalool

Bioaccumulative potential BCF: 99.87,

Partition coefficient log Pow: 3.3

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

Partition coefficient log Pow: 2.34

GERANIOL

Partition coefficient log Pow: 2.6

DAMASCONE (DELTA)

Partition coefficient log Pow: 4.2

12.4. Mobility in soil

Mobility Soluble in water.

Ecological information on ingredients.

ETHANOL

Henry's law constant $3.3 \times 10^{-6} \text{ atm m}^3/\text{mol @ } ^\circ\text{C}$

Surface tension 24.5 mN/m @ 20°C

2-(2-butoxyethoxy)ethanol

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

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.

2-(2-butoxyethoxy)ethanol

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

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

MELANGE

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

National regulations Health and Safety at Work etc. Act 1974 (as amended).
The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 (SI 2009 No. 1348) (as amended) ["CDG 2009"].
EH40/2005 Workplace exposure limits.

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

EU - EINECS/ELINCS

None of the ingredients are listed or exempt.

SECTION 16: Other information

MELANGE

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	18/07/2022
Revision	7
Supersedes date	25/11/2021
SDS number	7197/21990
Hazard statements in full	<p>H225 Highly flammable liquid and vapour. H226 Flammable liquid and vapour. H301 Toxic if swallowed. H302 Harmful if swallowed. H311 Toxic in contact with skin. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H319 Causes serious eye irritation. H331 Toxic if inhaled. H332 Harmful if inhaled. 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.</p>

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.