

# SAFETY DATA SHEET

**Retailbros.**

In accordance with 1907/2006 annex II and 1272/2008  
(All references to EU regulations and directives are abbreviated into only the numeric term)  
Amendment date 2024-06-11  
Replaces SDS issued 2024-02-28  
Revision date 2024-02-28  
Version number 1.1

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

### 1.1. Product identifier

Trade name IN-WASH Scent Boosting Beads - Bright Sky

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

Identified uses Rinsing agents

### 1.3. Details of the supplier of the safety data sheet

Company Retailbros AB  
Lillsjövägen 7  
136 50 Jordbro  
Sweden  
Telephone 08-411 00 02  
E-mail hello@retailbros.se  
Website www.retailbros.se

### 1.4. Emergency telephone number

Phone number for emergencies: 999 or 112. The numbers are available 24/7.

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Aquatic Chronic 3, H412  
(See section 16)

### 2.2. Label elements

Hazard pictogram	Not applicable
Signal word	Not applicable
Hazard statements	
H412	Harmful to aquatic life with long lasting effects
Precautionary statements	
P273	Avoid release to the environment
P501	Dispose of contents and container to authorised waste disposal facility

### Supplemental hazard information

EUH208 Contains BENZYL SALICYLATE; DIPENTENE; LINALOOL; 3-P-CUMENYL-2-METHYLPROPIONALDEHYDE;  $\alpha$ -HEXYLCINNAMALDEHYDE; 4-tert-BUTYLCYCLOHEXYL ACETATE; CITRONELLOL; HEXYL SALICYLATE; 3-METHYL-4-(2,6,6-TRIMETHYL-2-CYCLOHEXEN-1-YL)-3-BUTEN-2-ONE; GERANIOL; 1-(1,2,3,4,5,6,7,8-OCTAHYDRO-2,3,8,8-TETRAMETHYL-2-NAPHTHYL)ETHAN-1-ONE; 1-(2,6,6-TRIMETHYL-3-CYCLOHEXEN-1-YL)-2-BUTEN-1-ONE. May produce an allergic reaction.

### 2.3. Other hazards

This product does not contain any substances that are assessed to be a PBT or a vPvB

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

Note that the table shows known hazards of the ingredients in pure form. These hazards are reduced or eliminated when mixed or diluted, see Section 16d.

Constituent	Classification	Concentration
<b>BENZYL SALICYLATE</b>		
CAS No: 118-58-1 EC No: 204-262-9 Index No: 607-754-00-5	Skin. Sens. 1B; H317	<1 %
<b>OXACYCLOHEXADECEN-2-ONE</b>		
CAS No: 34902-57-3	Aquatic Acute 1, Aquatic Chronic 1; H400, H410	<1 %
<b>DIPENTENE</b>		
CAS No: 138-86-3 EC No: 205-341-0 Index No: 601-029-00-7	Flam. Liq. 3, Skin Irrit. 2, Skin. Sens. 1, Aquatic Acute 1, Aquatic Chronic 1; H226, H315, H317, H400, H410	<0.75 %
<b>LINALOOL</b>		
CAS No: 78-70-6 EC No: 201-134-4 Index No: 603-235-00-2	Skin. Sens. 1B; H317	<0.5 %
<b>3-P-CUMENYL-2-METHYLPROPIONALDEHYDE</b>		
CAS No: 103-95-7 EC No: 203-161-7	Skin Irrit. 2, Skin. Sens. 1B, Aquatic Chronic 3; H315, H317, H412	<0.5 %
<b><math>\alpha</math>-HEXYLCINNAMALDEHYDE</b>		
CAS No: 101-86-0 EC No: 202-983-3	Skin. Sens. 1, Aquatic Acute 1, Aquatic Chronic 2; H317, H400, H411	<0.5 %
<b>4-tert-BUTYLCYCLOHEXYL ACETATE</b>		
CAS No: 32210-23-4 EC No: 250-954-9 REACH: 01-2119976286-24-0001	Skin. Sens. 1B; H317	<0.5 %
<b>CITRONELLOL</b>		
CAS No: 106-22-9 EC No: 203-375-0 REACH: 01-2119453995-23	Skin Irrit. 2, Eye Irrit. 2, Skin. Sens. 1B; H315, H319, H317	<0.3 %
<b>HEXYL SALICYLATE</b>		
CAS No: 6259-76-3 EC No: 228-408-6 REACH: 01-2119638275-36	Skin. Sens. 1B, Aquatic Acute 1, Aquatic Chronic 1; H317, H400, H410	<0.3 %
<b>3-METHYL-4-(2,6,6-TRIMETHYL-2-CYCLOHEXEN-1-YL)-3-BUTEN-2-ONE</b>		
CAS No: 127-51-5 EC No: 204-846-3	Skin Irrit. 2, Eye Irrit. 2, Skin. Sens. 1B, Aquatic Chronic 2; H315, H319, H317, H411	<0.3 %
<b>GERANIOL</b>		
CAS No: 106-24-1 EC No: 203-377-1 Index No: 603-241-00-5	Skin. Sens. 1; H317	<0.3 %
<b>1-(1,2,3,4,5,6,7,8-OCTAHYDRO-2,3,8,8-TETRAMETHYL-2-NAPHTHYL)ETHAN-1-ONE</b>		
CAS No: 54464-57-2 EC No: 259-174-3	Skin Irrit. 2, Skin. Sens. 1, Aquatic Chronic 1; H315, H317, H410	<0.3 %

<b>METHANOL</b>		
CAS No: 67-56-1 EC No: 200-659-6 Index No: 603-001-00-X REACH: 01-2119433307-44	Flam. Liq. 2, Acute Tox. 3, Acute Tox. 3, Acute Tox. 3, STOT SE 1; H225, H311, H301, H331, H370 <i>Specific concentration limits and acute toxicity estimates (ATE):</i> <i>STOT SE 1, H370: C ≥ 10 %</i> <i>STOT SE 2, H371: 3 ≤ C &lt; 10 %</i>	<0.03 %
<b>1-(2,6,6-TRIMETHYL-3-CYCLOHEXEN-1-YL)-2-BUTEN-1-ONE</b>		
CAS No: 57378-68-4 EC No: 260-709-8	Acute Tox. 4, Skin Irrit. 2, Skin. Sens. 1A, Aquatic Acute 1, Aquatic Chronic 1; H302, H315, H317, H400, H410	<0.03 %

Explanations to the classification and labelling of the ingredients are given in Section 16e. Official abbreviations are printed in normal font. Text in italics are specifications and/or complements used in the calculation of the classification of this mixture, see Section 16b.

Contents according to 648/2004.

Perfumes: Benzyl salicylate, Citronellol, Coumarin, Geraniol, Hexyl cinnamal, Linalool, Alpha-isomethyl ionone

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### Generally

In case of concern, or if symptoms persist, call a doctor/physician.

#### Upon breathing in

Fresh air and rest. If symptoms persist seek medical advice.

#### Upon eye contact

Remove contact lenses immediately if possible.

Rinse the eye for several minutes with lukewarm water. If irritation persists call a doctor/ophthalmologist.

#### Upon skin contact

Remove contaminated clothes.

Wash the skin with soap and water.

If symptoms occur, contact a physician.

#### Upon ingestion

Rinse mouth out thoroughly first with water, then SPIT OUT the rinse water. Drink at least half a litre of water and seek medical advice. DO NOT INDUCE VOMITING.

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

#### Upon skin contact

Allergic reactions can occur in sensitized individuals.

#### Upon ingestion

May cause irritation of mucous membranes, nausea and vomiting.

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

Symptomatic treatment.

Upon contact with a doctor, make sure to have the label or this safety data sheet with you.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### Recommended extinguishing agents

Extinguish with water mist, powder, carbon dioxide or alcoholresistant foam.

#### Unsuitable extinguishing agents

May not be extinguished with water dispersed under high pressure.

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

In case of fire, substances hazardous to health, or substances harmful in other respects, may be dispersed.

Note, risk for discharge of environmentally harmful substances.

Avoid that water used for extinguishing fire reaches drains. Water used for extinguishing fire should be handled according to current regulations.

### 5.3. Advice for firefighters

- Protective measures to be taken with regard to other materials at the scene of the fire.
- In case of fire use proper breathing apparatus.
- Wear full protective clothing.
- Evacuate all not-authorized personnel.
- Contain and collect extinguishing liquid.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

- Keep unauthorized and unprotected people at a safe distance.
- Avoid inhalation and exposure to skin and eyes.
- In case of spillage in protected water, call the emergency services immediately, tel. 112 (in Europe).
- Ensure good ventilation.
- Avoid dust formation.
- Use recommended safety equipment, see section 8.

### 6.2. Environmental precautions

- Avoid release to drains, soil or watercourses.
- Please contact involved authorities if unintended release occurs.

### 6.3. Methods and material for containment and cleaning up

- To be collected with caution and transported to a waste disposal facility.

### 6.4. Reference to other sections

- See section 8 and 13 for personal protection equipment and disposal considerations.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

- Take the necessary preventive and protective measures for safe handling.
- Avoid inhalation and contact with skin and eyes.
- Work in order to avoid spillage. If spillage does occur, address it immediately in accordance with the directions specified in Section 6 of this safety data sheet.
- Store this product separately from food items and keep it out of the reach of children and pets.
- Do not eat, drink or smoke in premises where this product is handled.
- Wash your hands after using the product.
- Remove contaminated clothing.
- Wash contaminated clothing before reuse.
- Keep away from incompatible products.
- Use recommended safety equipment, see section 8.
- Implement appropriate engineering controls if necessary, see Section 8.

### 7.2. Conditions for safe storage, including any incompatibilities

- The product should be stored in a manner which prevents hazards to health and the environment. Avoid exposure to humans and animals and do not discharge the product in a sensitive environment.
- Take the necessary preventive and protective measures for safe storage.
- Keep out of reach for children.
- To be stored away from food and animal fodder and away from devices or surfaces that are in contact with those items.
- Store tightly, in original packaging.
- Always use sealed and visibly labeled packages.
- Store in dry and cool area.
- Store in a well-ventilated space.
- Do not store close to incompatible materials (see section 10.5).

### 7.3. Specific end use(s)

- See identified uses in Section 1.2.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### 8.1.1. National limit values

##### METHANOL

United Kingdom (EH40/2005)

Time-weighted-average exposure limit (TWA) 200 ppm / 266 mg/m<sup>3</sup>

Short term exposure limit (STEL) 250 ppm / 333 mg/m<sup>3</sup>

Note Sk

Explanations of abbreviations are given in Section 16b

#### DNEL

##### CITRONELLOL

	Type of exposure	Route of exposure	Value
Consumer	Chronic Systemic	Inhalation	47.8 mg/m <sup>3</sup>
Worker	Chronic Systemic	Dermal	45.8 mg/kg bw
Worker	Chronic Systemic	Inhalation	161.6 mg/m <sup>3</sup>
Consumer	Chronic Local	Dermal	29.5 mg/kg bw
Consumer	Chronic Systemic	Oral	13.8 mg/kg bw
Consumer	Chronic Systemic	Dermal	27.5 mg/kg bw

##### METHANOL

	Type of exposure	Route of exposure	Value
Worker	Acute Local	Inhalation	260 mg/m <sup>3</sup>
Consumer	Chronic Systemic	Inhalation	50 mg/m <sup>3</sup>
Worker	Chronic Systemic	Dermal	40 mg/kg bw
Worker	Acute Systemic	Inhalation	260 mg/m <sup>3</sup>
Worker	Acute Systemic	Dermal	40 mg/kg bw
Worker	Chronic Local	Inhalation	260 mg/m <sup>3</sup>
Worker	Chronic Systemic	Inhalation	260 mg/m <sup>3</sup>
Consumer	Acute Local	Inhalation	50 mg/m <sup>3</sup>
Consumer	Acute Systemic	Oral	8 mg/kg bw
Consumer	Acute Systemic	Inhalation	50 mg/m <sup>3</sup>
Consumer	Acute Systemic	Dermal	8 mg/kg bw
Consumer	Chronic Local	Inhalation	50 mg/m <sup>3</sup>

Consumer	Chronic Systemic	Oral	8 mg/kg bw
Consumer	Chronic Systemic	Dermal	8 mg/kg bw

## PNEC

### CITRONELLOL

Environmental protection target	PNEC value
Fresh water	0.0024 mg/L
Freshwater sediments	0.0256 mg/kg dw
Marine water	0.00024 mg/L
Marine sediments	0.00256 mg/kg dw
Microorganisms in sewage treatment	580 mg/L
Soil (agricultural)	0.00371 mg/kg dw
Intermittent	0.024 mg/L

### METHANOL

Environmental protection target	PNEC value
Fresh water	20.8 mg/L
Freshwater sediments	77 mg/kg dw
Marine water	2.08 mg/L
Marine sediments	7.7 mg/kg dw
Microorganisms in sewage treatment	100 mg/L
Soil (agricultural)	100 mg/kg dw
Intermittent	1540 mg/L

## 8.2. Exposure controls

The risks posed by the product or its constituents must be considered in the task specific risk assessment, in accordance with current working environment legislation. The risk assessment should be reviewed regularly and updated if necessary.

### 8.2.1. Appropriate engineering controls

The ventilation in the workplace must ensure an air quality that meets the requirements of the current working environment legislation. Local exhaust ventilation should be used to remove airborne contaminants at the source.

### Eye/face protection

Eye protection according to standard EN166 should be worn if there is any danger of direct exposure or splashing.

### Skin protection

Use suitable protective clothing.

Use protective gloves fulfilling the standard EN374 if there is a risk of direct contact.

During continuous contact use gloves with a minimum breakthrough time of at least 240 minutes, preferably over 480 minutes.

The most suitable protective glove should be chosen in consultation with the glove supplier, taking into account the risk assessment for the specific task and the properties of the chemicals involved. Note that the breakthrough time of the material is affected by the duration of the exposure, temperature conditions, abrasion, etcetera.

### Respiratory protection

Respiratory protective equipment is not normally required when working with this product, given that adequate ventilation is provided.

The most appropriate respiratory protective equipment should be decided in consultation with the appointed safety representative, taking into account the risk assessment for the specific task.

### 8.2.3. Environmental exposure controls

Work with the product should take place in such a way that the product does not get into soils and waterways.

## SECTION 9: Physical and chemical properties

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

(a) Physical state	solid
	Form: solid
(b) Colour	varying
(c) Odour	like perfume
(d) Melting point/freezing point	Not indicated
(e) Boiling point or initial boiling point and boiling range	Not indicated
(f) Flammability	Not indicated
(g) Lower and upper explosion limit	Not indicated
(h) Flash point	Not indicated
(i) Auto-ignition temperature	Not indicated
(j) Decomposition temperature	Not indicated
(k) pH	Not indicated
(l) Kinematic viscosity	Not indicated
(m) Solubility	Solubility in water: Soluble
(n) Partition coefficient n-octanol/water (log value)	Not indicated
(o) Vapour pressure	Not indicated
(p) Density and/or relative density	Not indicated
(q) Relative vapour density	Not indicated
(r) Particle characteristics	Not indicated

### 9.2. Other information

#### 9.2.1. Information with regard to physical hazard classes

Not indicated

#### 9.2.2. Other safety characteristics

Not indicated

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

The product contains no substances which can lead to hazardous reactions at normal use.

### 10.2. Chemical stability

The product is stable at normal storage and handling conditions.

### 10.3. Possibility of hazardous reactions

No hazardous reactions known during normal use.

### 10.4. Conditions to avoid

Avoid sources of ignition and excessive temperatures.

### 10.5. Incompatible materials

Avoid contact with strong acids and oxidizers.

### 10.6. Hazardous decomposition products

None under normal conditions.

## SECTION 11: Toxicological information

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Information on possible health hazards are based on experience and / or toxicological properties of several components in the product.

#### Acute toxicity

The product is not classified as acutely toxic.

#### DIPENTENE

LD50 rabbit 24h: > 5000 mg/kg Dermal

LD50 rat 24h: 4400 mg/kg Orally

#### LINALOOL

LD50 rabbit 24h: 5610 mg/kg Dermal

LD50 rat 24h: 3346 mg/kg Orally

### **3-P-CUMENYL-2-METHYLPROPIONALDEHYDE**

LD50 rat 24h: 3810 mg/kg Orally

### **α-HEXYLCINNAMALDEHYDE**

LD50 rat 24h: 3100 mg/kg Orally

### **CITRONELLOL**

LD50 rat 24h: 2650 mg/kg Dermally

LD50 rat 24h: 3450 mg/kg Orally

### **METHANOL**

LD50 rabbit 24h: 15800 mg/kg Dermally

LC50 rat 4h: 64000 ppm Inhalation

LD50 rat 24h: 2528 mg/kg Orally

#### **Skin corrosion/irritation**

The product is not classified for skin corrosion/irritation.

#### **Serious eye damage/irritation**

The product is not classified for serious eye damage/eye irritation.

#### **Respiratory or skin sensitisation**

The product is not classified as sensitising.

May cause an allergic reaction in sensitised people.

#### **Germ cell mutagenicity**

The product is not classified as mutagen.

#### **Carcinogenicity**

The product is not classified as carcinogenic.

#### **Reproductive toxicity**

The product is not classified as a reproductive toxicant.

#### **STOT-single exposure**

The product is not classified for specific organ toxicity after single exposure.

#### **STOT-repeated exposure**

The product is not classified for specific organ toxicity after repeated exposure.

#### **Aspiration hazard**

The product is not classified as being toxic for aspiration.

### **11.2. Information on other hazards**

#### **11.2.1. Endocrine disrupting properties**

No information is available.

#### **11.2.2. Other information**

Not indicated.

## **SECTION 12: Ecological information**

### **12.1. Toxicity**

Harmful to aquatic life with long lasting effects.

Prevent release on land, in water and drains.

### **LINALOOL**

LC50 Rainbow trout (*Oncorhynchus mykiss*) 96h: 27.8 mg/l

EC50 Freshwater water flea (*Daphnia magna*) 48 h: 59 mg/L

EC50 Algae 72 h: > 34 mg/l

NOEC Algae 72h: 5.6 mg/l

NOEC Freshwater water flea (*Daphnia magna*) 21d: 9.5 mg/l

EC50 Algae (*Scenedesmus subspicatus*) 96h: 88.3 - 156.7 mg/L

### **METHANOL**

LC50 Bluegill (*Lepomis macrochirus*) 96h: 11850 mg/l

EC50 Freshwater water flea (*Daphnia magna*) 48 h: 10000 mg/l

EC50 Algae (*Selenastrum capricornutum*) 72h: 22000 mg/l

### **12.2. Persistence and degradability**

There is no information regarding persistence or degradability.

### **12.3. Bioaccumulative potential**

There is no information regarding bioaccumulation.

### **12.4. Mobility in soil**

Information about mobility in nature is not available.

### **12.5. Results of PBT and vPvB assessment**

This product does not contain any substances that are assessed to be a PBT or a vPvB.

### **12.6. Endocrine disrupting properties**

No information is available.

### **12.7. Other adverse effects**

No known effects or hazards.

## **SECTION 13: Disposal considerations**

### **13.1. Waste treatment methods**

#### **Waste handling of the product**

Avoid discharge into sewers.

Discarded products must be disposed of as hazardous waste in accordance with regulations.

Not completely emptied packaging can contain remnants of dangerous substances and should therefore be handled as hazardous waste according to the above. Completely emptied packaging can be recycled.

See directive 2008/98/EC on waste. Observe national or regional provisions on waste management.

## **SECTION 14: Transport information**

Where not otherwise stated the information applies to all of the UN Model Regulations, i.e. ADR (road), RID (railway), ADN (inland waterways), IMDG (sea), and ICAO (IATA) (air).

### **14.1. UN number or ID number**

Not classified as dangerous goods

### **14.2. UN proper shipping name**

Not applicable

### **14.3. Transport hazard class(es)**

Not applicable

### **14.4. Packing group**

Not applicable

### **14.5. Environmental hazards**

Not applicable

### **14.6. Special precautions for user**

Not applicable

### **14.7. Maritime transport in bulk according to IMO instruments**

Not applicable

### **14.8 Other transport information**

Not applicable

## **SECTION 15: Regulatory information**

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

REGULATION (EC) No 648/2004 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 31 March 2004 on detergents.

### **15.2. Chemical safety assessment**

Assessment and chemical safety report in accordance with 1907/2006 Annex I has not yet been performed.

## SECTION 16: Other information

### 16a. Indication of where changes have been made to the previous version of the safety data sheet Revisions of this document

Earlier versions

2024-02-28 Changes in section(s) 1.

### 16b. Legend to abbreviations and acronyms used in the safety data sheet

#### Full texts for Hazard Class and Category Code mentioned in section 3

Skin. Sens. 1B	Respiratory or skin sensitisation, Sensitisation — Skin, hazard category 1B - Skin. Sens. 1B, H317 - May cause an allergic skin reaction
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1 - Aquatic Acute 1, H400 - Very toxic to aquatic life
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1 - Aquatic Chronic 1, H410 - Very toxic to aquatic life with long lasting effects
Flam. Liq. 3	Flammable liquids, Hazard Category 3 - Flam. Liq. 3, H226 - Flammable liquid and vapour
Skin Irrit. 2	Skin corrosion/irritation, Hazard Category 2 - Skin Irrit. 2, H315 - Causes skin irritation
Skin. Sens. 1	Respiratory or skin sensitisation, Sensitisation — Skin, hazard category 1 - Skin. Sens. 1, H317 - May cause an allergic skin reaction
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3 - Aquatic Chronic 3, H412 - Harmful to aquatic life with long lasting effects
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2 - Aquatic Chronic 2, H411 - Toxic to aquatic life with long lasting effects
Eye Irrit. 2	Serious eye damage/eye irritation, Hazard Category 2 - Eye Irrit. 2, H319 - Causes serious eye irritation
Flam. Liq. 2	Flammable liquids, Hazard Category 2 - Flam. Liq. 2, H225 - Highly flammable liquid and vapour
Acute Tox. 3	Acute toxicity (dermal), Hazard Category 3 - Acute Tox. 3, H311 - Toxic in contact with skin
Acute Tox. 3	Acute toxicity (oral), Hazard Category 3 - Acute Tox. 3, H301 - Toxic if swallowed
Acute Tox. 3	Acute toxicity (inhal.), Hazard Category 3 - Acute Tox. 3, H331 - Toxic if inhaled
STOT SE 1	Specific target organ toxicity — single exposure, Hazard Category 1 - STOT SE 1, H370 - Causes damage to organs <>
Acute Tox. 4	Acute toxicity (oral), Hazard Category 4 - Acute Tox. 4, H302 - Harmful if swallowed
Skin. Sens. 1A	Respiratory or skin sensitisation, Sensitisation — Skin, hazard category 1A - Skin. Sens. 1A, H317 - May cause an allergic skin reaction

#### Explanations of the abbreviations in Section 8

##### United Kingdom

Sk Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity

#### Explanations of the abbreviations in Section 14

ADR European Agreement concerning the International Transport of Dangerous Goods by Road

RID Regulations concerning the International Transport of Dangerous Goods by Rail

IMDG International Maritime Dangerous Goods Code

ICAO International Civil Aviation Organization (ICAO, 999 University Street, Montreal, Quebec H3C 5H7, Canada)

IATA The International Air Transport Association

### 16c. Key literature references and sources for data

#### Sources for data

Primary data for the calculation of the hazards has preferentially been taken from the official European classification list, 1272/2008 Annex I, as updated to 2024-06-11.

Where such data was not available, alternative documentation used to establish the official classification was used, e.g. IUCLID (International Uniform Chemical Information Database). As a second alternative, information was used from reputable international chemical industries, and as a third alternative other available information was used, e.g. material safety data sheets from other suppliers or information from non-profit associations, where reliability of the source was assessed by expert opinion. If, in spite of this, reliable information could not be sourced, the hazards were assessed by expert opinions based on the known hazards of similar substances, and according to the principles in 1907/2006 and 1272/2008.

#### Full texts for Regulations mentioned in this Safety Data Sheet

1907/2006 REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council

- 1272/2008 Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC  
REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of  
16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and  
repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006
- 648/2004 REGULATION (EC) No 648/2004 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of  
31 March 2004 on detergents
- 2008/98/EC DIRECTIVE 2008/98/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 19  
November 2008 on waste and repealing certain Directives

**16d. Methods of evaluating information referred to in 1272/2008 Article 9 which was used for the purpose of classification**

Hazard calculation for this mixture has been performed as a cumulative assessment with the aid of expert assessments in accordance with 1272/2008 Annex I, where all available information which may be significant to establishing the hazards of the mixture was assessed together, and in accordance with 1907/2006 Annex XI.

**16e. List of relevant hazard statements and/or precautionary statements**

**Full texts for hazard statements mentioned in section 3**

- H317 May cause an allergic skin reaction  
H400 Very toxic to aquatic life  
H410 Very toxic to aquatic life with long lasting effects  
H226 Flammable liquid and vapour  
H315 Causes skin irritation  
H412 Harmful to aquatic life with long lasting effects  
H411 Toxic to aquatic life with long lasting effects  
H319 Causes serious eye irritation  
H225 Highly flammable liquid and vapour  
H311 Toxic in contact with skin  
H301 Toxic if swallowed  
H331 Toxic if inhaled  
H370 Causes damage to organs <>  
H302 Harmful if swallowed

**16f. Advice on any training appropriate for workers to ensure protection of human health and the environment**

**Warning for misuse**

Not indicated.

**Other relevant information**

Not indicated

**Editorial information**



This material safety data sheet has been prepared and checked by KemRisk®, KemRisk Sweden AB, Platensgatan 8, SE-582 20 Linköping, Sweden, [www.kemrisk.se](http://www.kemrisk.se)