

# SAFETY DATA SHEET

## Envirobead™ - Peach

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

#### 1.1 Product identifier

<b>Product name</b>	: Envirobead™ - Peach	<b>Code</b>	
<b>Trade name</b>	: Envirobead™ - Peach	<b>Code</b>	PL 603/100
<b>Material uses</b>	: Autoclave deodorant to be used when autoclaving laboratory waste (one capsule per autoclave load).		
<b>Other means of identification</b>	: Not available.		

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

Not applicable.

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

**Supplier** : Pro-Lab Diagnostics  
 20 Mural Street, Unit 4  
 Richmond Hill, ON  
 Canada L4B 1K3  
 Tel: +1-905-731-0300  
 Fax: +1-905-731-0206  
 www.pro-lab.com

**e-mail address of person responsible for this SDS** : support@pro-lab.com

#### 1.4 Emergency telephone number

**Emergency telephone number (with hours of operation)** : +44 (0)151 353 1613 -Monday to Friday 9:00 am to 5:00 pm.  
 +44 (0)7714 429 646 -Outside the above hours.

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

**Product definition** : Mixture

#### Classification according to Directive 1999/45/EC [DPD]

The product is classified as dangerous according to Directive 1999/45/EC and its amendments.

**Classification** : Carc. Cat. 3; R40  
 Repr. Cat. 3; R62  
 Xi; R36/38  
 R43  
 N; R51/53

**Human health hazards** : Limited evidence of a carcinogenic effect. Possible risk of impaired fertility. Irritating to eyes and skin. May cause sensitisation by skin contact.

**Environmental hazards** : Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

See Section 16 for the full text of the R phrases or H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

#### 2.2 Label elements

## SECTION 2: Hazards identification

### Hazard pictograms



### Signal word

: Danger

### Hazard statements

: Causes skin irritation.  
 Causes serious eye damage.  
 May cause an allergic skin reaction.  
 Suspected of causing cancer.  
 Suspected of damaging fertility or the unborn child.  
 May cause damage to organs through prolonged or repeated exposure. (central nervous system (CNS))  
 Toxic to aquatic life with long lasting effects.

### Precautionary statements

#### Prevention

: P201 - Obtain special instructions before use.  
 P273 - Avoid release to the environment.  
 P260 - Do not breathe vapour.

#### Response

: P314 - Get medical attention if you feel unwell.  
 P305 + P310 - IF IN EYES: Immediately call a POISON CENTER or physician.

#### Storage

: P405 - Store locked up.

#### Disposal

: Not applicable.

### Hazard symbol or symbols



### Indication of danger

: Harmful, Dangerous for the environment

### Risk phrases

: R40- Limited evidence of a carcinogenic effect.  
 R62- Possible risk of impaired fertility.  
 R36/38- Irritating to eyes and skin.  
 R43- May cause sensitisation by skin contact.  
 R51/53- Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

### Safety phrases

: S36/37- Wear suitable protective clothing and gloves.  
 S61- Avoid release to the environment. Refer to special instructions/safety data sheet.

### Hazardous ingredients

: 2-benzylideneheptanal  
 Musk xylene  
 2-(4-tert-Butylbenzyl)propionaldehyde  
 3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one  
 Geraniol

### Supplemental label elements

: Not applicable.

### Special packaging requirements

#### Containers to be fitted with child-resistant fastenings

: Not applicable.

#### Tactile warning of danger

: Not applicable.

### 2.3 Other hazards

#### Other hazards which do not result in classification

: Not available.

**SECTION 3: Composition/information on ingredients**

Substance/mixture : Mixture

Product/ingredient name	Identifiers	%	Classification		Type
			67/548/EEC	Regulation (EC) No. 1272/2008 [CLP]	
2-Phenylethanol	EC: 200-456-2 CAS: 60-12-8	10-20	Xn; R22 Xi; R36	Acute Tox. 4, H302 Acute Tox. 3, H311 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 STOT RE 2, H373	[1]
Undecan-4-olide	EC: 203-225-4 CAS: 104-67-6	2.5-25	N; R51/53	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Aquatic Chronic 2, H411 Not classified.	[1]
Terpenes and Terpenoids, sweet orange-oil	CAS: 68647-72-3	5-10	R10 Xi; R36/38		[1]
2-benzylideneheptanal	EC: 204-541-5 CAS: 122-40-7	2.5-25	R43 N; R51/53	Skin Sens. 1, H317 Aquatic Chronic 2, H411	[1]
Musk xylene	EC: 201-329-4 CAS: 81-15-2 Index: 609-068-00-1	2.5-25	E; R2 Carc. Cat. 3; R40 N; R50/53	Expl. 1.1, H201 Carc. 2, H351 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	[1]
2-(4-tert-Butylbenzyl)propionaldehyde	EC: 201-289-8 CAS: 80-54-6	5-7	Repr. Cat. 3; R62 Xn; R22 Xi; R38 R43 N; R51/53	Acute Tox. 4, H302 Skin Irrit. 2, H315 Skin Sens. 1, H317 Repr. 2, H361fd Aquatic Chronic 2, H411	[1]
3-Methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one	EC: 204-846-3 CAS: 127-51-5	2.5-25	R43 N; R51/53	Skin Sens. 1, H317 Aquatic Chronic 2, H411	[1]
4,7-Methano-1h-inden-6-ol, 3a,4,5,6,7,7a-hexahydro-, propanoate	EC: 241-514-7 CAS: 17511-60-3	2.5-25	N; R51/53	Aquatic Chronic 2, H411	[1]
1,3,4,6,7,8-Hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran	EC: 214-946-9 CAS: 1222-05-5 Index: 603-212-00-7	2.5-25	N; R50/53	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	[1]
Geraniol	EC: 203-377-1 CAS: 106-24-1	1-5	Xi; R41, R38 R43	Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Chronic 3, H412	[1]
Benzeneethanol, α,α-dimethyl-, acetate	EC: 205-781-3 CAS: 151-05-3	0.25-2.5	R52/53		[1]
Terpineol	EC: 232-268-1 CAS: 8000-41-7	1-5	Xi; R38	Skin Irrit. 2, H315 Eye Irrit. 2, H319	[1]
2-tert-Butylcyclohexyl acetate	EC: 201-828-7 CAS: 88-41-5	0.25-2.5	N; R51/53	Aquatic Chronic 2, H411	[1]
terpineol, acetate	EC: 232-357-5 CAS: 8007-35-0	0.25-2.5	N; R51/53	Aquatic Chronic 2, H411	[1]
3-p-Cumenyl-2-methylpropionaldehyde	EC: 203-161-7 CAS: 103-95-7	0.5-1	Repr. Cat. 3; R62 Xi; R38 R43 N; R51/53	Skin Irrit. 2, H315 Skin Sens. 1, H317 Repr. 2, H361fd Aquatic Chronic 2, H411	[1]
Citronellol	EC: 203-375-0 CAS: 106-22-9	0.25-1	Xi; R38 R43 N; R51/53	Skin Irrit. 2, H315 Skin Sens. 1, H317	[1]

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs or vPvBs or have been assigned a workplace exposure limit and hence require reporting in this section.

See Section 16 for the full text of the R-phrases declared above.

See Section 16 for the full text of the H statements declared above.

**Type**

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII

[4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

Occupational exposure limits, if available, are listed in Section 8.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

- Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 20 minutes. Get medical attention.
- Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
- Skin contact** : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 20 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Ingestion** : Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

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

#### Potential acute health effects

- Eye contact** : Irritating to eyes.
- Inhalation** : Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
- Skin contact** : Irritating to skin. May cause sensitisation by skin contact.
- Ingestion** : Irritating to mouth, throat and stomach.

#### Over-exposure signs/symptoms

- Eye contact** : Adverse symptoms may include the following:  
irritation  
watering  
redness
- Inhalation** : Adverse symptoms may include the following:  
reduced foetal weight  
increase in foetal deaths  
skeletal malformations
- Skin contact** : Adverse symptoms may include the following:  
irritation  
redness  
reduced foetal weight  
increase in foetal deaths  
skeletal malformations
- Ingestion** : Adverse symptoms may include the following:  
reduced foetal weight  
increase in foetal deaths  
skeletal malformations

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

- Notes to physician** : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

## SECTION 4: First aid measures

**Specific treatments** : No specific treatment.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

**Suitable extinguishing media** : Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam.

**Unsuitable extinguishing media** : Do not use water jet.

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

**Hazards from the substance or mixture** : Combustible liquid.

**Hazardous thermal decomposition products** : Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide  
nitrogen oxides

### 5.3 Advice for firefighters

**Special protective actions for fire-fighters** : Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool. This material is toxic to aquatic organisms. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

**Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

## SECTION 6: Accidental release measures

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

**For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

**For emergency responders** : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also Section 8 for additional information on hygiene measures.

### 6.2 Environmental precautions

: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

### 6.3 Methods and materials for containment and cleaning up

**Spill** : Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product.

## SECTION 6: Accidental release measures

- 6.4 Reference to other sections** : See Section 1 for emergency contact information.  
 See Section 8 for information on appropriate personal protective equipment.  
 See Section 13 for additional waste treatment information.

## SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

### 7.1 Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapour or mist. Avoid release to the environment. Refer to special instructions/safety data sheet. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use non-sparking tools. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container.

- Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

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

- : Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

### 7.3 Specific end use(s)

- Recommendations** : Not available.  
**Industrial sector specific solutions** : Not available.

## SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

### 8.1 Control parameters

#### Occupational exposure limits

No exposure limit value known.

- Recommended monitoring procedures** : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to European Standard EN 689 for methods for the assessment of exposure by inhalation to chemical agents and national guidance documents for methods for the determination of hazardous substances.

#### Derived effect levels

## SECTION 8: Exposure controls/personal protection

No DELs available.

### Predicted effect concentrations

No PECs available.

### 8.2 Exposure controls

**Appropriate engineering controls** : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

### Individual protection measures

**Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**Eye/face protection** : Splash goggles.

### Skin protection

**Hand protection** : Natural rubber (latex).

**Body protection** : Lab coat.

**Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Respiratory protection** : A respirator is not needed under normal and intended conditions of product use.

**Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### Appearance

**Physical state** : Liquid contained in a gelatin capsule.

**Colour** : Clear.

**Odour** : Peach.

**Odour threshold** : Not available.

**pH** : Not available.

**Melting point/freezing point** : Not available.

**Boiling point** : Not available.

**Flash point** : Closed cup: 71°C [Pensky-Martens.]

**Evaporation rate** : Not available.

**Flammability** : Slightly flammable in the presence of the following materials or conditions: open flames, sparks and static discharge.  
Non-flammable in the presence of the following materials or conditions: heat.

**Burning time** : Not applicable.

**Burning rate** : Not applicable.

**Upper/lower flammability or explosive limits** : Not available.

**Vapour pressure** : Not available.

**Vapour density** : Not available.

**Relative density** : Not available.

**Solubility(ies)** : Not available.

## SECTION 9: Physical and chemical properties

<b>Partition coefficient: n-octanol/water</b>	: Not available.
<b>Auto-ignition temperature</b>	: Not available.
<b>Decomposition temperature</b>	: Not available.
<b>Viscosity</b>	: Not available.
<b>Explosive properties</b>	: Not available.
<b>Oxidising properties</b>	: Not available.

### 9.2 Other information

No additional information.

## SECTION 10: Stability and reactivity

<b>10.1 Reactivity</b>	: No specific test data related to reactivity available for this product or its ingredients.
<b>10.2 Chemical stability</b>	: The product is stable.
<b>10.3 Possibility of hazardous reactions</b>	: Under normal conditions of storage and use, hazardous reactions will not occur.
<b>10.4 Conditions to avoid</b>	: Avoid all possible sources of ignition (spark or flame). Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.
<b>10.5 Incompatible materials</b>	: Reactive or incompatible with the following materials: oxidizing materials
<b>10.6 Hazardous decomposition products</b>	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
2-Phenylethanol	LD50 Dermal	Rabbit	805 mg/kg	-
	LD50 Dermal	Rat	>5000 mg/kg	-
	LD50 Oral	Rat	1500 mg/kg	-
Undecan-4-olide	LD50 Oral	Rat	18500 mg/kg	-
	LD50 Oral	Rat	3730 mg/kg	-
2-benzylideneheptanal	LD50 Dermal	Rabbit	>15 g/kg	-
	LD50 Oral	Rat	>10 g/kg	-
Musk xylene	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	1390 mg/kg	-
2-(4-tert-Butylbenzyl)propionaldehyde	LD50 Oral	Rat	>5000 mg/kg	-
	LD50 Dermal	Rabbit	>5000 mg/kg	-
3-Methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one	LD50 Oral	Rat	>5000 mg/kg	-
	LD50 Dermal	Rabbit	>5 g/kg	-
4,7-Methano-1h-inden-6-ol, 3a,4,5,6,7,7a-hexahydro-, propanoate	LD50 Oral	Rat	>5 g/kg	-
	LD50 Dermal	Rat	>5 g/kg	-
1,3,4,6,7,8-Hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran	LD50 Oral	Rat	>5000 mg/kg	-
	LD50 Dermal	Rabbit	>5000 mg/kg	-
Geraniol	LD50 Oral	Rat	2.1 g/kg	-
	LD50 Oral	Rat	3300 mg/kg	-
Benzeneethanol, α,α-dimethyl-, acetate	LD50 Oral	Rat	4300 mg/kg	-
	LD50 Dermal	Rabbit	>5 g/kg	-
Terpineol	LD50 Oral	Rat	2490 mg/kg	-
	LD50 Dermal	Rabbit	>5000 mg/kg	-
Benzyl acetate	LD50 Oral	Rat	4600 mg/kg	-
	LD50 Dermal	Rat	>5 g/kg	-
2-tert-Butylcyclohexyl acetate	LD50 Oral	Rat	>5000 mg/kg	-
	LD50 Dermal	Rat	>5000 mg/kg	-
3-p-Cumenyl-2-	LD50 Oral	Rat	>5 g/kg	-
	LD50 Dermal	Rat	>5 g/kg	-

## SECTION 11: Toxicological information

methylpropionaldehyde	LD50 Oral	Rat	3810 mg/kg	-
Citronellol	LD50 Dermal	Rabbit	2650 mg/kg	-
	LD50 Oral	Rat	3450 mg/kg	-

### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
2-Phenylethanol	Eyes - Mild irritant	Rabbit	-	10 minutes 12 Grams	-
	Eyes - Severe irritant	Rabbit	-	24 hours 750 Micrograms	-
	Skin - Mild irritant	Guinea pig	-	100 Percent	-
	Skin - Moderate irritant	Guinea pig	-	24 hours 100 milligrams	-
Undecan-4-olide	Skin - Moderate irritant	Rabbit	-	24 hours 100 milligrams	-
	Skin - Severe irritant	Guinea pig	-	24 hours 100 milligrams	-
2-Benzylideneheptanal	Skin - Mild irritant	Rabbit	-	336 hours 5 Percent	-
	Skin - Moderate irritant	Guinea pig	-	24 hours 100 milligrams	-
	Skin - Severe irritant	Rabbit	-	24 hours 100 milligrams	-
Musk xylene	Skin - Mild irritant	Human	-	48 hours 5 milligrams	-
2-(4-tert-Butylbenzyl)propionaldehyde	Skin - Moderate irritant	Rabbit	-	24 hours 500 milligrams	-
4,7-Methano-1h-inden-6-ol, 3a,4,5,6,7,7a-hexahydro-, propanoate	Skin - Moderate irritant	Rabbit	-	24 hours 500 milligrams	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500 milligrams	-
1,3,4,6,7,8-Hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran Geraniol	Skin - Mild irritant	Guinea pig	-	30 Percent	-
	Skin - Severe irritant	Guinea pig	-	24 hours 100 milligrams	-
	Skin - Severe irritant	Human	-	48 hours 32 Percent	-
	Skin - Severe irritant	Man	-	24 hours 16 milligrams	-
	Skin - Moderate irritant	Rabbit	-	4 hours 0.5 Milliliters	-
Benzeneethanol, α,α-dimethyl-, acetate	Skin - Severe irritant	Rabbit	-	24 hours 100 milligrams	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500 milligrams	-
Terpineol	Eyes - Mild irritant	Mammal - species unspecified	-	12.5 Percent	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500 milligrams	-
Benzyl acetate	Skin - Moderate irritant	Rabbit	-	24 hours 100 milligrams	-
2-tert-Butylcyclohexyl acetate	Eyes - Severe irritant	Rabbit	-	50 Percent	-
	Skin - Moderate irritant	Rabbit	-	4 hours 100 Percent	-
3-p-Cumenyl-2-methylpropionaldehyde	Eyes - Mild irritant	Rabbit	-	100 milligrams	-
	Skin - Mild irritant	Human	-	48 hours 15 milligrams	-
Citronellol	Eyes - Moderate irritant	Rabbit	-	0.42 Percent	-
	Skin - Severe irritant	Guinea pig	-	24 hours 100 milligrams	-
	Skin - Moderate irritant	Man	-	48 hours 16 milligrams	-
	Skin - Moderate irritant	Rabbit	-	4 hours 0.42 Percent	-
	Skin - Severe irritant	Rabbit	-	24 hours 100 milligrams	-
	Skin - Severe irritant	Rabbit	-	4 hours 0.5 Milliliters	-

### Sensitisation

**Skin** : There are no data available.

**Respiratory** : There are no data available.

## SECTION 11: Toxicological information

### Mutagenicity

There are no data available.

### Carcinogenicity

There are no data available.

### Reproductive toxicity

There are no data available.

### Teratogenicity

There are no data available.

### Specific target organ toxicity (single exposure)

There are no data available.

### Specific target organ toxicity (repeated exposure)

There are no data available.

### Aspiration hazard

There are no data available.

**Information on the likely routes of exposure** : Routes of entry anticipated: Oral, Dermal, Inhalation.

### Potential acute health effects

- Eye contact** : Irritating to eyes.
- Inhalation** : Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
- Skin contact** : Irritating to skin. May cause sensitisation by skin contact.
- Ingestion** : Irritating to mouth, throat and stomach.

### Symptoms related to the physical, chemical and toxicological characteristics

- Eye contact** : Adverse symptoms may include the following:  
irritation  
watering  
redness
- Inhalation** : Adverse symptoms may include the following:  
reduced foetal weight  
increase in foetal deaths  
skeletal malformations
- Skin contact** : Adverse symptoms may include the following:  
irritation  
redness  
reduced foetal weight  
increase in foetal deaths  
skeletal malformations
- Ingestion** : Adverse symptoms may include the following:  
reduced foetal weight  
increase in foetal deaths  
skeletal malformations

### Delayed and immediate effects and also chronic effects from short and long term exposure

#### Short term exposure

- Potential immediate effects** : No known significant effects or critical hazards.
- Potential delayed effects** : No known significant effects or critical hazards.

#### Long term exposure

- Potential immediate effects** : No known significant effects or critical hazards.
- Potential delayed effects** : No known significant effects or critical hazards.

### Potential chronic health effects

## SECTION 11: Toxicological information

- General** : Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
- Carcinogenicity** : May cause cancer, based on animal data. Limited evidence of a carcinogenic effect. Risk of cancer depends on duration and level of exposure.
- Mutagenicity** : No known significant effects or critical hazards.
- Teratogenicity** : No known significant effects or critical hazards.
- Developmental effects** : No known significant effects or critical hazards.
- Fertility effects** : May impair fertility, based on animal data.
- Other information** : Not available.

## SECTION 12: Ecological information

### 12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
Undecan-4-olide	Acute EC50 17 ppm Fresh water	Daphnia - Daphnia magna - <24 hours	48 hours
	Acute LC50 569 ppm Fresh water	Fish - Oncorhynchus mykiss	96 hours
Geraniol	Acute LC50 2.6 to 3 mg/L Fresh water	Fish - Salmo trutta - 0.8 g	96 hours
Benzyl acetate	Acute LC50 4000 to 4600 ug/L Fresh water	Fish - Oryzias latipes - Juvenile (Fledgling, Hatchling, Weanling) - 28 to 43 days - 18 to 71 mg	96 hours
	Chronic NOEC 920 ug/L Fresh water	Fish - Oryzias latipes - Larvae - 0 to 3 days	28 days

### 12.2 Persistence and degradability

There are no data available.

### 12.3 Bioaccumulative potential

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
Benzyl acetate	1.96	-	low

### 12.4 Mobility in soil

**Soil/water partition coefficient (K<sub>oc</sub>)** : No data available.

**Mobility** : Not available.

### 12.5 Results of PBT and vPvB assessment

**PBT** : Not applicable.

**vPvB** : Not applicable.

**12.6 Other adverse effects** : No known significant effects or critical hazards.

## SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

### 13.1 Waste treatment methods

#### Product

**Methods of disposal** : The generation of waste should be avoided or minimised wherever possible. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

**Hazardous waste** : The classification of the product may meet the criteria for a hazardous waste.

## SECTION 13: Disposal considerations

### Packaging

**Methods of disposal** : The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

**Special precautions** : This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

## SECTION 14: Transport information

	<b>ADR/RID</b>	<b>ADN/ADNR</b>	<b>IMDG</b>	<b>IATA</b>
<b>14.1 UN number</b>	Not regulated.	Not regulated.	Not regulated.	Not regulated.
<b>14.2 UN proper shipping name</b>	-	-	-	-
<b>14.3 Transport hazard class(es)</b>	-	-	-	-
<b>14.4 Packing group</b>	-	-	-	-
<b>14.5 Environmental hazards</b>	No.	No.	No.	No.
<b>14.6 Special precautions for user</b>	Not available.	Not available.	Not available.	Not available.
<b>Additional information</b>	Limited Quantity Exemption	Limited Quantity Exemption	Limited Quantity Exemption	Limited Quantity Exemption

**14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** : Not available.

## SECTION 15: Regulatory information

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

#### EU Regulation (EC) No. 1907/2006 (REACH)

##### Annex XIV - List of substances subject to authorisation

##### Substances of very high concern

None of the components are listed.

**Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles** : Not applicable.

#### Other EU regulations

**Europe inventory** : All components are listed or exempted.

**Black List Chemicals** : Not listed

**Priority List Chemicals** : Listed

**Integrated pollution prevention and control list (IPPC) - Air** : Listed

## SECTION 15: Regulatory information

**Integrated pollution prevention and control list (IPPC) - Water** : Not listed

Product/ingredient name	Carcinogenic effects	Mutagenic effects	Developmental effects	Fertility effects
Musk xylene	Carc. Cat. 3; R40	-	-	-
2-(4-tert-Butylbenzyl)propionaldehyde	-	-	-	Repr. Cat. 3; R62
3-p-Cumenyl-2-methylpropionaldehyde	-	-	-	Repr. Cat. 3; R62

**15.2 Chemical Safety Assessment** : This product contains substances for which Chemical Safety Assessments are still required.

## SECTION 16: Other information

**Abbreviations and acronyms** : ATE = Acute Toxicity Estimate  
 CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]  
 DNEL = Derived No Effect Level  
 EUH statement = CLP-specific Hazard statement  
 PNEC = Predicted No Effect Concentration  
 RRN = REACH Registration Number

**Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]**

Skin Irrit. 2, H315  
 Eye Dam. 1, H318  
 Skin Sens. 1, H317  
 Carc. 2, H351  
 Repr. 2, H361fd  
 STOT RE 2, H373  
 Aquatic Chronic 2, H411

**Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]**

Classification	Justification
Skin Irrit. 2, H315	Calculation method
Eye Dam. 1, H318	Calculation method
Skin Sens. 1, H317	Calculation method
Carc. 2, H351	Calculation method
Repr. 2, H361fd	Calculation method
STOT RE 2, H373	Calculation method
Aquatic Chronic 2, H411	Calculation method

**Full text of abbreviated H statements** :

H201	Explosive; mass explosion hazard.
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.
H335	May cause respiratory irritation.
H351	Suspected of causing cancer.
H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
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.

## SECTION 16: Other information

<b>Full text of classifications [CLP/GHS]</b>	<p>: Acute Tox. 3, H311          Acute Tox. 4, H302          Aquatic Acute 1, H400          Aquatic Chronic 1, H410          Aquatic Chronic 2, H411          Aquatic Chronic 3, H412          Carc. 2, H351          Expl. 1.1, H201          Eye Dam. 1, H318          Eye Irrit. 2, H319          Repr. 2, H361fd</p> <p>Skin Irrit. 2, H315          Skin Sens. 1, H317          STOT RE 2, H373</p> <p>STOT SE 3, H335</p>	<p>ACUTE TOXICITY: SKIN - Category 3          ACUTE TOXICITY: ORAL - Category 4          AQUATIC TOXICITY (ACUTE) - Category 1          AQUATIC TOXICITY (CHRONIC) - Category 1          AQUATIC TOXICITY (CHRONIC) - Category 2          AQUATIC TOXICITY (CHRONIC) - Category 3          CARCINOGENICITY - Category 2          EXPLOSIVES - Division 1.1          SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1          SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2          TOXIC TO REPRODUCTION [Fertility and Unborn child] - Category 2          SKIN CORROSION/IRRITATION - Category 2          SKIN SENSITIZATION - Category 1          SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) [central nervous system (CNS)] - Category 2          SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) [Respiratory tract irritation] - Category 3</p>
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<b>Full text of abbreviated R phrases</b>	<p>: R2- Risk of explosion by shock, friction, fire or other sources of ignition.          R10- Flammable.          R40- Limited evidence of a carcinogenic effect.          R62- Possible risk of impaired fertility.          R22- Harmful if swallowed.          R41- Risk of serious damage to eyes.          R36- Irritating to eyes.          R38- Irritating to skin.          R36/38- Irritating to eyes and skin.          R43- May cause sensitisation by skin contact.          R50/53- Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.          R51/53- Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.          R52/53- Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.</p>
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<b>Full text of classifications [DSD/DPD]</b>	<p>: E - Explosive          Carc. Cat. 3 - Carcinogen category 3          Repr. Cat. 3 - Toxic to reproduction category 3          Xn - Harmful          Xi - Irritant          N - Dangerous for the environment</p>
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### History

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