

## CARE+PROTECT \_ 100% Pure essence concentrated laundry perfume Clean Wash

**SECTION 1. Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Product name	100% Pure essence concentrated laundry perfume Clean Wash	
Model:	LPL1005CW	LPL1045CW
Code:	35602512	35602670
EAN:	8059019043005	8059019054261
UFI :	X630-P00D-300G-4W60	

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

Intended use Concentrated laundry perfume

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

Name Candy Hoover Group S.r.l.  
Full address Via Comolli, 16 - 20861 Brugherio (MB) - Italy  
Telephone number +39 039 20861  
e-mail address of the competent person responsible for the Safety Data Sheet sds@dgsasrl.it

**1.4. Emergency telephone number**

For urgent inquiries refer to ENGLAND, SCOTLAND (NHS 24) WALES (NHS Direct Wales) - For medical advice contact 111

**SECTION 2. Hazards identification****2.1. Classification of the substance or mixture**

The product is classified as hazardous pursuant to the provisions set forth in (EC) Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of (EU) Regulation 2020/878.

Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Hazard classification and indication:

Skin irritation, category 2	H315	Causes skin irritation.
Skin sensitization, category 1B	H317	May cause an allergic skin reaction.
Hazardous to the aquatic environment, chronic toxicity, category 2	H411	Toxic to aquatic life with long lasting effects.

**2.2. Label elements**

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms:



Signal words:

Warning

Hazard statements:

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H411	Toxic to aquatic life with long lasting effects.

Precautionary statements:

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P103	Read label before use.
P302+P352	IF ON SKIN: Wash with plenty of water.
P333+P313	If skin irritation or rash occurs: Get medical advice / attention.
P273	Avoid release to the environment.
P501	Dispose of contents / container in accordance with local regulation.
Additional precautionary statements:	
P280	Wear protective gloves.
P391	Collect spillage.

Contains:

3-p-cumenyl-2-methylpropionaldehyde  
3,7-dimethylocta-1,6-dien-3-ol  
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one  
4-tert-butylcyclohexyl acetate  
1-(2,3,8,8-Tetramethyl-1,2,3,5,6,7,8,8a-octahydronaphthalen-2-yl)ethan-1-one  
1-(1,2,3,4,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one  
α-hexylcinnamaldehyde  
coumarin

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3,7-dimethyloct-6-en-1-ol  
2-methylundecanal**2.3. Other hazards**

On the basis of available data, the product does not contain any PBT or vPvB in percentage  $\geq$  than 0,1%.  
The product does not contain substances with endocrine disrupting properties in concentration  $\geq$  0.1%.

**SECTION 3. Composition/information on ingredients****3.2. Mixtures**

Contains:

Identification	x = Conc. %	Classification (EC) 1272/2008 (CLP)
<b>1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one</b>		
INDEX -	$4,5 \leq x < 5$	Skin Irrit. 2 H315, Skin Sens. 1B H317, Aquatic Acute 1 H400 M=1
EC 259-174-3		
CAS 54464-57-2		
REACH Reg. 01-2119489989-04		
<b><math>\alpha</math>-hexylcinnamaldehyde</b>		
INDEX -	$4,5 \leq x < 5$	Skin Sens. 1B H317, Aquatic Acute 1 H400 M=1, Aquatic Chronic 2 H411
EC 202-983-3		
CAS 101-86-0		
<b>2,2,2-trichloro-1-phenylethyl acetate</b>		
INDEX -	$4,5 \leq x < 5$	Aquatic Chronic 3 H412
EC 201-972-0		
CAS 90-17-5		
REACH Reg. 01-2119929625-31		
<b>2-tert-butylcyclohexyl acetate</b>		
INDEX -	$4,5 \leq x < 5$	Aquatic Chronic 2 H411
EC 201-828-7		
CAS 88-41-5		
<b>3-p-cumenyl-2-methylpropionaldehyde</b>		
INDEX -	$4,5 \leq x < 5$	Skin Irrit. 2 H315, Skin Sens. 1B H317, Aquatic Chronic 3 H412
EC 203-161-7		
CAS 103-95-7		
REACH Reg. 01-2119970582-32		
<b>4-(2,6,6-trimethylcyclohex-1-enyl)but-3-en-2-one</b>		
INDEX -	$4,5 \leq x < 5$	Aquatic Chronic 2 H411
EC 238-969-9		
CAS 14901-07-6		
REACH Reg. 01-2119937833-30		
<b>2,6-dimethyloct-7-en-2-ol</b>		
INDEX -	$4,5 \leq x < 5$	Eye Irrit. 2 H319, Skin Irrit. 2 H315
EC 242-362-4		
CAS 18479-58-8		
<b>2-phenylethanol</b>		
INDEX -	$3 \leq x < 3,5$	Acute Tox. 4 H302, Eye Irrit. 2 H319 LD50 Oral: 1603 mg/kg
EC 200-456-2		
CAS 60-12-8		
REACH Reg. 01-2119963921-31		
<b>4-tert-butylcyclohexyl acetate</b>		
INDEX -	$2,5 \leq x < 3$	Skin Sens. 1B H317
EC 250-954-9		
CAS 32210-23-4		
REACH Reg. 01-2119976286-24		
<b>1-(1,2,3,4,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one</b>		
INDEX -	$2,5 \leq x < 3$	Skin Irrit. 2 H315, Skin Sens. 1B H317, Aquatic Chronic 1 H410 M=1
EC 268-979-9		
CAS 68155-67-9		
<b>3a,4,5,6,7,7a-hexahydro-4,7-methano-1H-indenyl acetate</b>		
INDEX -	$2,5 \leq x < 3$	Aquatic Chronic 3 H412
EC 259-367-2		
CAS 54830-99-8		
<b>1-(2,3,8,8-Tetramethyl-1,2,3,5,6,7,8,8a-octahydronaphthalen-2-yl)ethan-1-one</b>		
INDEX -	$2,5 \leq x < 3$	Skin Irrit. 2 H315, Skin Sens. 1B H317, Aquatic Chronic 1 H410 M=1
EC 268-978-3		
CAS 68155-66-8		
<b>benzyl acetate</b>		

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INDEX - EC 205-399-7 CAS 140-11-4 REACH Reg. 01-2119638272-42 <b><math>\alpha,\alpha</math>-dimethylphenethyl acetate</b>	1 ≤ x < 1,5	Aquatic Chronic 3 H412
INDEX - EC 205-781-3 CAS 151-05-3 REACH Reg. 01-2120258394-51 <b>3,7-dimethylocta-1,6-dien-3-ol</b>	1 ≤ x < 1,5	Skin Irrit. 2 H315, Aquatic Chronic 3 H412
INDEX 603-235-00-2 EC 201-134-4 CAS 78-70-6 REACH Reg. 01-2119474016-42 <b>2-methylundecanal</b>	1 ≤ x < 1,5	Eye Irrit. 2 H319, Skin Irrit. 2 H315, Skin Sens. 1B H317
INDEX - EC 203-765-0 CAS 110-41-8 REACH Reg. 01-2119969443-29 <b>coumarin</b>	0,1 ≤ x < 0,9	Skin Irrit. 2 H315, Skin Sens. 1B H317, Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1
INDEX - EC 202-086-7 CAS 91-64-5 REACH Reg. 01-2119949300-45 <b>BENZALKONIUM CHLORIDE</b>	0,1 ≤ x < 0,9	Acute Tox. 4 H302, Skin Sens. 1B H317, Aquatic Chronic 3 H412 LD50 Oral: 520 mg/kg
INDEX 612-140-00-5 EC 264-151-6 CAS 63449-41-2 <b>4-methyl-3-decen-5-ol</b>	0,1 ≤ x < 0,9	Acute Tox. 4 H302, Acute Tox. 4 H312, Skin Corr. 1B H314, Eye Dam. 1 H318, Aquatic Acute 1 H400 M=1 STA Oral: 500 mg/kg, STA Dermal: 1100 mg/kg
INDEX - EC 279-815-0 CAS 81782-77-6 <b>3,7-dimethyloct-6-en-1-ol</b>	0,1 ≤ x < 0,9	Aquatic Acute 1 H400 M=1
INDEX - EC 203-375-0 CAS 106-22-9 REACH Reg. 01-2119453995-23	0,1 ≤ x < 0,9	Eye Irrit. 2 H319, Skin Irrit. 2 H315, Skin Sens. 1B H317

The full wording of hazard (H) phrases is given in section 16 of the sheet.

## SECTION 4. First aid measures

### 4.1. Description of first aid measures

**EYES:** Remove contact lenses, if present. Wash immediately with plenty of water for at least 30-60 minutes, opening the eyelids fully. Get medical advice/attention.

**SKIN:** Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention.

**INGESTION:** Have the subject drink as much water as possible. Get medical advice/attention. Do not induce vomiting unless explicitly authorised by a doctor.

**INHALATION:** Get medical advice/attention immediately. Remove victim to fresh air, away from the accident scene. If the subject stops breathing, administer artificial respiration. Take suitable precautions for rescue workers.

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

Specific information on symptoms and effects caused by the product are unknown.

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

Information not available

## SECTION 5. Firefighting measures

### 5.1. Extinguishing media

#### SUITABLE EXTINGUISHING EQUIPMENT

The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray.

#### UNSUITABLE EXTINGUISHING EQUIPMENT

None in particular.

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

#### HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Do not breathe combustion products.

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**5.3. Advice for firefighters**

## GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

## SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

**SECTION 6. Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

**6.2. Environmental precautions**

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

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

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

**6.4. Reference to other sections**

Any information on personal protection and disposal is given in sections 8 and 13.

**SECTION 7. Handling and storage****7.1. Precautions for safe handling**

Before handling the product, consult all the other sections of this material safety data sheet. Avoid leakage of the product into the environment. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat.

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

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Keep containers away from any incompatible materials, see section 10 for details.

Storage class TRGS 510 (Germany):10

**7.3. Specific end use(s)**

See Subsection 1.2

**SECTION 8. Exposure controls/personal protection****8.1. Control parameters****# 2,6-dimethyloct-7-en-2-ol**

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,0278	mg/l
Normal value in marine water	0,00278	mg/l
Normal value for fresh water sediment	0,594	mg/kg
Normal value for marine water sediment	0,0594	mg/kg
Normal value of STP microorganisms	10	mg/l
Normal value for the food chain (secondary poisoning)	111	mg/kg
Normal value for the terrestrial compartment	0,103	mg/kg

**Health - Derived no-effect level - DNEL / DMEL**

Route of exposure	Effects on consumers				Effects on workers			
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral		NPI		2,5 mg/kg bw/d				
Inhalation	NPI	NPI	NPI	4,35 mg/m3	NPI	NPI	NPI	24,7 mg/m3
Skin	LOW	LOW	NPI	2,5 mg/kg bw/d	LOW	NPI	LOW	7 mg/kg bw/d

**# 2,2,2-trichloro-1-phenylethyl acetate**

Predicted no-effect concentration - PNEC

Normal value in fresh water	6,25	µg/L
Normal value in marine water	625	ng/L
Normal value for fresh water sediment	373	µg/L
Normal value for marine water sediment	37,3	µg/L
Normal value for marine water, intermittent release	54,7	µg/L
Normal value for fresh water, intermittent release	5,47	µg/L

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Normal value of STP microorganisms	109	µg/L
Normal value for the food chain (secondary poisoning)	NPI	
Normal value for the terrestrial compartment	70,8	µg/L
Normal value for the atmosphere	NPI	

**Health - Derived no-effect level - DNEL / DMEL**

Route of exposure	Effects on consumers				Effects on workers			
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral		NPI		833 µg/kg bw/day				
Inhalation	NPI	NPI	NPI	1,45 mg/m <sup>3</sup>	NPI	NPI	NPI	8,22 mg/m <sup>3</sup>
Skin	NPI	NPI	NPI	146 µg/kg bw/day	NPI	NPI	NPI	1,25 mg/kg bw/d

**# 4-tert-butylcyclohexyl acetate**

## Predicted no-effect concentration - PNEC

Normal value in fresh water	5,3	µg/L
Normal value in marine water	530	µg/L
Normal value for fresh water sediment	2,01	mg/kg/d
Normal value for marine water sediment	210	µg/kg
Normal value for marine water, intermittent release	53	µg/L
Normal value of STP microorganisms	12	mg/l
Normal value for the food chain (secondary poisoning)	66,67	mg/kg
Normal value for the terrestrial compartment	420	µg/kg soil dw
Normal value for the atmosphere	NPI	

**Health - Derived no-effect level - DNEL / DMEL**

Route of exposure	Effects on consumers				Effects on workers			
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral		NPI		NPI				
Inhalation	NPI	NPI	NPI	NPI	NPI	NPI	NPI	NPI
Skin	MED	NPI	MED	NPI	MED	NPI	MED	NPI

**# benzyl acetate**

## Predicted no-effect concentration - PNEC

Normal value in fresh water	18,4	µg/L
Normal value in marine water	1,84	µg/L
Normal value for fresh water sediment	526	µg/L
Normal value for marine water sediment	52,6	µg/L
Normal value for marine water, intermittent release	40	µg/L
Normal value of STP microorganisms	8,55	mg/l
Normal value for the food chain (secondary poisoning)	NEA	
Normal value for the terrestrial compartment	94,45	mg/kg/d
Normal value for the atmosphere	NPI	

**Health - Derived no-effect level - DNEL / DMEL**

Route of exposure	Effects on consumers				Effects on workers			
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral		NPI		1,3 mg/kg bw/d				
Inhalation	NPI	NPI	NPI	2,2 mg/m <sup>3</sup>	NPI	NPI	NPI	9 mg/m <sup>3</sup>
Skin	NPI	NPI	NPI	1,3 mg/kg bw/d	NPI	NPI	NPI	2,5 mg/kg bw/d

**# α,α-dimethylphenethyl acetate****Health - Derived no-effect level - DNEL / DMEL**

Route of exposure	Effects on consumers				Effects on workers			
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral		NPI		1,8 mg/kg bw/d				
Inhalation	NPI	NPI	NPI	3,13 mg/m <sup>3</sup>	NPI	NPI	NPI	12,695 mg/m <sup>3</sup>
Skin	NPI	NPI	NEA	1,8 mg/kg bw/d	NPI	NPI	NPI	3,6 mg/kg bw/d

**# linalool**

## Predicted no-effect concentration - PNEC

Normal value in fresh water	0,2	mg/l
Normal value in marine water	0,02	mg/l

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Normal value for fresh water sediment	2,22	mg/kg
Normal value for marine water sediment	0,222	mg/kg
Normal value for water, intermittent release	2	mg/l
Normal value of STP microorganisms	10	mg/l
Normal value for the terrestrial compartment	0,327	mg/kg

**Health - Derived no-effect level - DNEL / DMEL**

Route of exposure	Effects on consumers				Effects on workers			
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral		1,2 mg/kg bw/d		0,2 mg/kg bw/d				
Inhalation		4,1 mg/m3		0,7 mg/m3				2,8 mg/m3
Skin	15 mg/kg bw/d	2,5 mg/kg bw/d	15 mg/kg bw/d	1,25 mg/kg bw/d	15 mg/kg bw/d		15 mg/kg bw/d	2,5 mg/kg bw/d

**# 4-methyl-3-decen-5-ol**

## Predicted no-effect concentration - PNEC

Normal value in fresh water	0,76	mg/l
Normal value in marine water	76	ng/L
Normal value for fresh water sediment	92	µg/kg
Normal value for marine water sediment	9,2	µg/kg
Normal value for marine water, intermittent release	0,004	mg/l
Normal value for fresh water, intermittent release	400	ng/L
Normal value of STP microorganisms	10	mg/l
Normal value for the food chain (secondary poisoning)	111,1	mg/kg
Normal value for the terrestrial compartment	18	µg/kg soil dw
Normal value for the atmosphere	NPI	

**Health - Derived no-effect level - DNEL / DMEL**

Route of exposure	Effects on consumers				Effects on workers			
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral		5 mg/kg bw/d		10 mg/kg bw/d				
Inhalation	21,74 mg/m3	8,7 mg/m3	21,74 mg/m3	14,38 mg/m3	88,16 mg/m3	35,26 mg/m3	88,16 mg/m3	98,7 mg/m3
Skin	12,5 mg/cm2	5 mg/kg bw/d	12,5 mg/cm2	89,3 µg/kg	25 mg/kg bw/d	10 mg/kg bw/d	25 mg/kg bw/d	10 mg/kg bw/d

**# 3,7-dimethyloct-6-en-1-ol**

## Predicted no-effect concentration - PNEC

Normal value in fresh water	0,002	mg/l
Normal value for fresh water sediment	0,026	mg/kg
Normal value for marine water sediment	0,003	mg/kg/d
Normal value of STP microorganisms	580	mg/l
Normal value for the terrestrial compartment	0,004	mg/kg

**Health - Derived no-effect level - DNEL / DMEL**

Route of exposure	Effects on consumers				Effects on workers			
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				13,8 mg/kg bw/d				
Inhalation	10 mg/m3		10 mg/m3	47,8 mg/m3	10 mg/m3		10 mg/m3	161,6 mg/m3
Skin				196,4 mg/kg bw/d				327,4 mg/kg bw/d

**# 2-methylundecanal**

## Predicted no-effect concentration - PNEC

Normal value in fresh water	660	ng/L
Normal value in marine water	66	ng/L
Normal value for fresh water sediment	265	µg/L
Normal value for marine water sediment	26,5	µg/L
Normal value for marine water, intermittent release	1,8	µg/L
Normal value for fresh water, intermittent release	180	ng/L
Normal value of STP microorganisms	10	mg/l
Normal value for the food chain (secondary poisoning)	116	mg/kg
Normal value for the terrestrial compartment	52,6	µg/L
Normal value for the atmosphere	NPI	

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified ; LOW = low hazard ; MED = medium hazard ; HIGH = high hazard.

**8.2. Exposure controls**

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Provide an emergency shower with face and eye wash station.

**HAND PROTECTION**

Protect hands with category III work gloves.

The following should be considered when choosing work glove material (see standard EN 374): compatibility, degradation, failure time and permeability.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

**SKIN PROTECTION**

Wear category II professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

**EYE PROTECTION**

Wear airtight protective goggles (see standard EN 166).

**RESPIRATORY PROTECTION**

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a type A filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.

**ENVIRONMENTAL EXPOSURE CONTROLS**

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

Product residues must not be indiscriminately disposed of with waste water or by dumping in waterways.

**SECTION 9. Physical and chemical properties****9.1. Information on basic physical and chemical properties**

Properties	Value	Information
Appearance	liquid	
Colour	transparent	
Odour	characteristic	
Melting point / freezing point	not available	
Initial boiling point	not available	
Flammability	not available	
Lower explosive limit	not available	
Upper explosive limit	not available	
Flash point	> 60 °C	
Auto-ignition temperature	not available	
Decomposition temperature	not available	
pH	not available	
Kinematic viscosity	not available	
Solubility	not available	
Partition coefficient: n-octanol/water	not available	
Vapour pressure	not available	
Density and/or relative density	0,93	
Relative vapour density	not available	
Particle characteristics	not applicable	

**9.2. Other information****9.2.1. Information with regard to physical hazard classes**

Information not available

**9.2.2. Other safety characteristics**

Information not available

**SECTION 10. Stability and reactivity****10.1. Reactivity**

There are no particular risks of reaction with other substances in normal conditions of use.

**# BENZALKONIUM CHLORIDE**

Corrodes: carbon steel,copper,aluminium,copper alloys,aluminium alloys.

**10.2. Chemical stability**

The product is stable in normal conditions of use and storage.

**10.3. Possibility of hazardous reactions**

No hazardous reactions are foreseeable in normal conditions of use and storage.

**10.4. Conditions to avoid**

None in particular. However the usual precautions used for chemical products should be respected.

**10.5. Incompatible materials**

Information not available

**10.6. Hazardous decomposition products**

Information not available

**SECTION 11. Toxicological information****11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008**Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

Information not available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Information not available

Interactive effects

Information not available

ACUTE TOXICITY

ATE (Inhalation) of the mixture: Not classified (no significant component)

ATE (Oral) of the mixture: >2000 mg/kg

ATE (Dermal) of the mixture: Not classified (no significant component)

**# 2,6-dimethyloct-7-en-2-ol**

LD50 (Dermal): > 5000 mg/kg

LD50 (Oral): > 3020 mg/kg

**# 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one**

LD50 (Dermal): > 5000 mg/kg Rat

LD50 (Oral): > 5000 mg/kg Rat

**# 2,2,2-trichloro-1-phenylethyl acetate**

LD50 (Dermal): 2000 mg/kg

LD50 (Oral): 5000 mg/kg

**# 2-tert-butylcyclohexyl acetate**

LD50 (Dermal): > 5 mg/kg

LD50 (Oral): > 4600 mg/kg

**# 4-(2,6,6-trimethylcyclohex-1-enyl)but-3-en-2-one**

LD50 (Oral): 4590 mg/kg Rat

**# 2-phenylethanol**

LD50 (Dermal): 2535 mg/kg (Rabbit)

LD50 (Oral): 1603 mg/kg (Rat)

LC50 (Inhalation vapours): 4,63 mg/l/4h (Rat)

**# 4-tert-butylcyclohexyl acetate**

LD50 (Dermal): 4680 mg/kg

LD50 (Oral): 3370 mg/kg

**# benzyl acetate**

LD50 (Dermal): 5000 mg/kg

LD50 (Oral): 2000 mg/kg

LC50 (Inhalation vapours): 0,766 mg/l/4h

**# linalool**

LD50 (Oral): 2790 mg/kg rat

**# coumarin**

LD50 (Dermal): 293 mg/kg Rat

LD50 (Oral): 520 mg/kg Rat



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## # 2-methylundecanal

LD50 (Dermal): 10 mg/kg  
LD50 (Oral): 5000 mg/kg

SKIN CORROSION / IRRITATION

Causes skin irritation

SERIOUS EYE DAMAGE / IRRITATION

Does not meet the classification criteria for this hazard class

RESPIRATORY OR SKIN SENSITISATION

Sensitising for the skin

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

**11.2. Information on other hazards**

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with human health effects under evaluation.

**SECTION 12. Ecological information**

This product is dangerous for the environment and is toxic for aquatic organisms. In the long term, it have negative effects on aquatic environment.

**12.1. Toxicity**

## # 3-p-cumenyl-2-methylpropionaldehyde

Chronic NOEC for Algae / Aquatic Plants 0,7 mg/l

## # linalool

LC50 - for Fish 27,8 mg/l/96h  
EC50 - for Crustacea 59 mg/l/48h  
EC50 - for Algae / Aquatic Plants 156,7 mg/l/72h

## # 4-(2,6,6-trimethylcyclohex-1-enyl)but-3-en-2-one

EC50 - for Crustacea 1,641 mg/l/48h  
EC50 - for Algae / Aquatic Plants 3,223 mg/l/72h

## # 2,6-dimethyloct-7-en-2-ol

LC50 - for Fish 27,8 mg/l/96h *Oncorhynchus mykiss*; OECD 203  
EC50 - for Crustacea 38 mg/l/48h *Daphnia magna*; OECD 202  
EC50 - for Algae / Aquatic Plants 65 mg/l/72h *Desmodesmus subcapitatus*; OECD 201  
Chronic NOEC for Crustacea 9,5 mg/l *Daphnia magna*; OECD 211

## # 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8-tetramethyl-2-naphthyl)ethan-1-one

LC50 - for Fish 1,3 mg/l/96h  
EC50 - for Algae / Aquatic Plants 2,6 mg/l/72h  
EC10 for Algae / Aquatic Plants 2,6 mg/l/72h

## # benzyl acetate

LC50 - for Fish 4 mg/l/96h  
EC50 - for Crustacea 17 mg/l/48h  
EC50 - for Algae / Aquatic Plants 92 mg/l/72h  
EC10 for Algae / Aquatic Plants 52 mg/l/72h  
Chronic NOEC for Fish 0,92 mg/l

## # 4-tert-butylcyclohexyl acetate

LC50 - for Fish 8,6 mg/l/96h  
EC50 - for Crustacea 8,6 mg/l/48h  
EC50 - for Algae / Aquatic Plants 22 mg/l/72h

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EC10 for Algae / Aquatic Plants	6,8 mg/l/72h
# 2-phenylethanol	
LC50 - for Fish	215 mg/l/96h
EC50 - for Crustacea	287,17 mg/l/48h
EC50 - for Algae / Aquatic Plants	490 mg/l/72h
# 2,2,2-trichloro-1-phenylethyl acetate	
LC50 - for Fish	30 mg/l/96h
EC50 - for Crustacea	13,47 mg/l/48h
EC50 - for Algae / Aquatic Plants	5,47 mg/l/72h
# $\alpha,\alpha$ -dimethylphenethyl acetate	
EC50 - for Crustacea	15,4 mg/l/48h
EC50 - for Algae / Aquatic Plants	4,766 mg/l/72h
# 4-methyl-3-decen-5-ol	
EC50 - for Algae / Aquatic Plants	3,6 mg/l/72h
EC10 for Crustacea	0,038 mg/l/28d
Chronic NOEC for Algae / Aquatic Plants	0,668 mg/l
# 2-methylundecanal	
EC50 - for Crustacea	0,21 mg/l/48h
EC50 - for Algae / Aquatic Plants	0,18 mg/l/72h
Chronic NOEC for Fish	0,033 mg/l
<b>12.2. Persistence and degradability</b>	
# BENZALKONIUM CHLORIDE	
NOT rapidly degradable	
# linalool	
Rapidly degradable	
# 2,6-dimethyloct-7-en-2-ol	
Rapidly degradable	
# benzyl acetate	
Rapidly degradable	
# 4-tert-butylcyclohexyl acetate	
Rapidly degradable	
# 1-(2,3,8,8-Tetramethyl-1,2,3,5,6,7,8,8a-octahydronaphthalen-2-yl)ethan-1-one	
Solubility in water	2,725 mg/l @ 25 °C
# 1-(1,2,3,4,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	
Solubility in water	2,725 mg/l @ 25 °C
# 2-phenylethanol	
Solubility in water	17,5 g/l 25 °C
Rapidly degradable	
# 2,2,2-trichloro-1-phenylethyl acetate	
Solubility in water	16,56 mg/l @ 25 °C
Rapidly degradable	
# $\alpha,\alpha$ -dimethylphenethyl acetate	
Solubility in water	774,88 mg/l @ 20 °C
Rapidly degradable	
# 4-methyl-3-decen-5-ol	
Solubility in water	63 mg/l @ 20 °C
Rapidly degradable	
# 2-methylundecanal	
Solubility in water	1,3 mg/l @ 20 °C and pH 7
Rapidly degradable	
<b>12.3. Bioaccumulative potential</b>	
# 4-tert-butylcyclohexyl acetate	
Partition coefficient: n-octanol/water	4,8 Log Kow
# 2-phenylethanol	
Partition coefficient: n-octanol/water	1,3 Log Kow @ 20 °C

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# 2,2,2-trichloro-1-phenylethyl acetate Partition coefficient: n-octanol/water	3,535 Log Kow @ 25 °C
# $\alpha,\alpha$ -dimethylphenethyl acetate Partition coefficient: n-octanol/water	3,64 Log Kow @ 25 °C
# 4-methyl-3-decen-5-ol Partition coefficient: n-octanol/water	3,9 Log Kow @ 30 °C and pH 7
# 2-methylundecanal Partition coefficient: n-octanol/water	4,9 Log Kow @ 35 °C

**12.4. Mobility in soil**

# 2,6-dimethyloct-7-en-2-ol Partition coefficient soil/water: 2.25 l/kg	
# 4-tert-butylcyclohexyl acetate Partition coefficient: soil/water	3,66 l/kg

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

On the basis of available data, the product does not contain any PBT or vPvB in percentage  $\geq$  than 0,1%.

**12.6. Endocrine disrupting properties**

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with environmental effects under evaluation.

**12.7. Other adverse effects**

Information not available

**SECTION 13. Disposal considerations****13.1. Waste treatment methods**

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

Waste transportation may be subject to ADR restrictions.

**CONTAMINATED PACKAGING**

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

**SECTION 14. Transport information****14.1. UN number or ID number**

ADR / RID, IMDG, IATA: 3082

ADR / RID: In accordance with Special Provision 375, this product, when is packed in receptacles of a capacity  $\leq$  5Kg or 5L, is not submitted to ADR provisions.

IMDG: In accordance with Section 2.10.2.7 of IMDG Code, this product, when is packed in receptacles of a capacity  $\leq$  5Kg or 5L, is not submitted to IMDG Code provisions.

IATA: In accordance with SP A197, this product, when is packed in receptacles of a capacity  $\leq$  5Kg or 5L, is not submitted to IATA dangerous goods regulations.

**14.2. UN proper shipping name**

ADR / RID: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (4-(2,6,6-trimethylcyclohex-1-enyl)but-3-en-2-one; 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one)

IMDG: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (4-(2,6,6-trimethylcyclohex-1-enyl)but-3-en-2-one; 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one)

IATA: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (4-(2,6,6-trimethylcyclohex-1-enyl)but-3-en-2-one; 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one)

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

ADR / RID: Class: 9 Label: 9

IMDG: Class: 9 Label: 9

IATA: Class: 9 Label: 9

**14.4. Packing group**

ADR / RID, IMDG, IATA: III

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**14.5. Environmental hazards**

ADR / RID: Environmentall  
y Hazardous

IMDG: Marine  
Pollutant

IATA: Environmentall  
y Hazardous

**14.6. Special precautions for user**

ADR / RID:	HIN - Kemler: 90	Limited Quantities: 5 L	Tunnel restriction code: (-)
	Special provision: -		
IMDG:	EMS: F-A, S-F	Limited Quantities: 5 L	
IATA:	Cargo:	Maximum quantity: 450 L	Packaging instructions: 964
	Passengers:	Maximum quantity: 450 L	Packaging instructions: 964
	Special provision:	A97, A158, A197, A215	

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

Information not relevant

**SECTION 15. Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

Seveso Category - Directive 2012/18/EU: E2

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

Product:

Point 3

Contained substance:

Point 75 BENZALKONIUM CHLORIDE

Point 75 3,7-dimethylocta-1,6-dien-3-ol REACH Reg.: 01-2119474016-42

Regulation (EU) 2019/1148 - on the marketing and use of explosives precursors

not applicable

Substances in Candidate List (Art. 59 REACH)

On the basis of available data, the product does not contain any SVHC in percentage  $\geq$  than 0,1%.

Substances subject to authorisation (Annex XIV REACH)

None

Substances subject to exportation reporting pursuant to Regulation (EU) 649/2012:

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

**Healthcare controls**

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

**15.2. Chemical safety assessment**

A chemical safety assessment has been performed for the following contained substances  
 $\alpha,\alpha$ -dimethylphenethyl acetate

**SECTION 16. Other information**

This Safety Data Sheet has been drawn up on the basis of the information contained in the SDS (Rev.1 of 12/04/2021) of the Supplier of the mixture  
Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Acute Tox. 4	Acute toxicity, category 4
Skin Corr. 1B	Skin corrosion, category 1B
Eye Irrit. 2	Eye irritation, category 2
Skin Irrit. 2	Skin irritation, category 2
Skin Sens. 1B	Skin sensitization, category 1B
Aquatic Acute 1	Hazardous to the aquatic environment, acute toxicity, category 1
Aquatic Chronic 1	Hazardous to the aquatic environment, chronic toxicity, category 1
Aquatic Chronic 2	Hazardous to the aquatic environment, chronic toxicity, category 2
Aquatic Chronic 3	Hazardous to the aquatic environment, chronic toxicity, category 3
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.



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H319	Causes serious eye irritation.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
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.

## LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- ATE: Acute Toxicity Estimate
- CAS: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE: Identifier in ESIS (European archive of existing substances)
- CLP: Regulation (EC) 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: Regulation (EC) 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA: Time-weighted average exposure limit
- TWA STEL: Short-term exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

## GENERAL BIBLIOGRAPHY

1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
  2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
  3. Regulation (EU) 2020/878 (II Annex of REACH Regulation)
  4. Regulation (EC) 790/2009 (I Atp. CLP) of the European Parliament
  5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
  6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
  7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
  8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
  9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
  10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
  11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
  12. Regulation (EU) 2016/1179 (IX Atp. CLP)
  13. Regulation (EU) 2017/776 (X Atp. CLP)
  14. Regulation (EU) 2018/669 (XI Atp. CLP)
  15. Regulation (EU) 2019/521 (XII Atp. CLP)
  16. Delegated Regulation (UE) 2018/1480 (XIII Atp. CLP)
  17. Regulation (EU) 2019/1148
  18. Delegated Regulation (UE) 2020/217 (XIV Atp. CLP)
  19. Delegated Regulation (UE) 2020/1182 (XV Atp. CLP)
  20. Delegated Regulation (UE) 2021/643 (XVI Atp. CLP)
  21. Delegated Regulation (UE) 2021/849 (XVII Atp. CLP)
  22. Delegated Regulation (UE) 2022/692 (XVIII Atp. CLP)
- The Merck Index. - 10th Edition
  - Handling Chemical Safety
  - INRS - Fiche Toxicologique (toxicological sheet)
  - Patty - Industrial Hygiene and Toxicology
  - N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition
  - IFA GESTIS website
  - ECHA website
  - Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) - Italy

**Note for users:**

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

**CALCULATION METHODS FOR CLASSIFICATION**

Chemical and physical hazards: Product classification derives from criteria established by the CLP Regulation, Annex I, Part 2. The data for evaluation of chemical-physical properties are reported in section 9.

Health hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determined otherwise in Section 11.

Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in Section 12.

**Changes to previous review:**

The following sections were modified:

02 / 03 / 11 / 15.