

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

Product code : Hygienfresh Bustine profumate Fiori Bianchi

Trades code : A80-035/1

Product line: Hygienfresh

UFI: R8J0-P0ME-A003-M1QV

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

Envelope scented with Hook-perfume long lasting for cabinets and drawers

Sectors of use:

Private households (= general public = consumers)[SU21], Public domain (administration, education, entertainment, services, craftsmen)[SU22]

Uses advised against

Do not use for purposes other than those listed

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

Tintolav s.r.l. - Via M. D' Antona 7 - 10028 Trofarello (TO) Tel. 011/649.68.27 Fax 011/649.67.42

Email: info@tintolav.com - Sito internet: www.tintolav.com

Email tecnico competente: a.conedera@tintolav.com

National contact: Malta: Emergency Ambulance 112

Accident &amp; Emergency Department 2545 4030

**1.4. Emergency telephone number**

The UK National Poisons Emergency number +44 (0)870 600 6266

London: Emergency 24 hour telephone +44 (0) 207188 0100

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

2.1.1 Classification according to Regulation (EC) No 1272/2008:

Pictograms:

GHS07, GHS09

Hazard Class and Category Code(s):

Skin Sens. 1A, Eye Irrit. 2, Aquatic Chronic 2

Hazard statement Code(s):

H317 - May cause an allergic skin reaction.

H319 - Causes serious eye irritation.

H411 - Toxic to aquatic life with long lasting effects.

If brought into contact with eyes, the product, causes significant irritations which may last for more than 24 hours.

The product, if brought into contact with skin can cause skin sensitization.

The product is dangerous to the environment as it is toxic to aquatic life with long lasting effects

**2.2. Label elements**

Labelling according to Regulation (EC) No 1272/2008:

Pictogram, Signal Word Code(s):  
GHS07, GHS09 - Warning

Hazard statement Code(s):

- H317 - May cause an allergic skin reaction.
- H319 - Causes serious eye irritation.
- H411 - Toxic to aquatic life with long lasting effects.

Supplemental Hazard statement Code(s):  
not applicable

Precautionary statements:

General

P101 - If medical advice is needed, have product container or label at hand.

P102 - Keep out of reach of children.

Prevention

P273 - Avoid release to the environment.

Response

P302+P352 - IN CASE OF CONTACT WITH SKIN: wash thoroughly with soap and water

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.

P337+P313 - If eye irritation persists: Get medical advice/attention.

Disposal

P501 - Dispose of contents / container in accordance with local and national regulations.

Contains:

Benzyl salicylate,  $\alpha$ -Hexylcinnamaldehyde, benzyl benzoate,  
[3R-(3 $\alpha$ ,3 $\alpha$ ,7 $\beta$ ,8 $\alpha$ )]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one,  
1-(2,3,8,8-Tetramethyl-1,2,3,4,5,6,7,8-octahydronaphthalen-2-yl)ethanone, Linalool, Coumarin, Ylang Ylang essential  
oil, 1-(1,2,3,4,6,7,8,8a-Octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one,  
1-(1,2,3,5,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one, Isoeugenol, 7-hydroxycitronellal

Content of VOC ready to use condition: 2,95 %

UFI: R8J0-P0ME-A003-M1QV

**2.3. Other hazards**

The substance / mixture NOT contains substances PBT/vPvB according to Regulation (EC) No 1907/2006, Annex XIII

No information on other hazards

**SECTION 3. Composition/information on ingredients****3.1 Substances**

Irrelevant

**3.2 Mixtures**

Refer to paragraph 16 for full text of hazard statements

Substance	Concentration[ w/w]	Classification	Index	CAS	EINECS	REACH
Benzyl salicylate	>= 25 < 35%	Skin Sens. 1B, H317	607-754-00-5	118-58-1	204-262-9	NR
α-Hexylcinnamaldehyde	>= 15 < 25%	Skin Sens. 1, H317; Aquatic Chronic 2, H411	ND	101-86-0	202-983-3	NR
benzyl benzoate	>= 5 < 15%	Acute Tox. 4, H302; Aquatic Chronic 2, H411	607-085-00-9	120-51-4	204-402-9	NR
benzyl acetate - FEMA 2135	>= 1 < 5%	Aquatic Chronic 3, H412	ND	140-11-4	205-399-7	NR
[3R-(3α,3aβ,7β,8aα)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one - FEMA 0	>= 1 < 5%	Skin Sens. 1, H317; Aquatic Acute 1, H400; Aquatic Chronic 1, H410	ND	32388-55-9	251-020-30	NR
2-phenylethanol - FEMA 2858	>= 1 < 5%	Eye Irrit. 2, H319	ND	60-12-8	200-456-2	NR
methyl anthranilate - FEMA 2682	>= 1 < 5%	Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	ND	134-20-3	205-132-4	NR
1-(5,6,7,8-tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl)ethan-1-one - FEMA 0	>= 0,1 < 1%	Acute Tox. 4, H302; Aquatic Acute 1, H400; Aquatic Chronic 1, H410 10 10	ND	1506-02-1	216-133-4	NR
1-(2,3,8,8-Tetramethyl-1,2,3,4,5,6,7,8-octahydronaphthalen-2-yl)ethanone - FEMA 0	>= 0,1 < 1%	Skin Irrit. 2, H315; Skin Sens. 1, H317; Aquatic Chronic 2, H411	ND	54464-57-2	259-174-3	NR
Linalool	>= 0,1 < 1%	Skin Sens. 1B, H317	603-235-00-2	78-70-6	201-134-4	01-2119485 965-18-xxxx x
Coumarin	>= 0,1 < 1%	Acute Tox. 4, H302; Skin Sens. 1, H317; STOT RE 2, H373	ND	91-64-5	202-086-7	01-2119943 756-26-000 0
2,6-di-tert-butyl-p-cresol - FEMA 2184	>= 0,1 < 1%	Aquatic Acute 1, H400; Aquatic Chronic 1, H410	ND	128-37-0	204-881-4	01-2119565 113-46
Ylang Ylang essential oil - FEMA 0	>= 0,1 < 1%	Asp. Tox. 1, H304; Skin Irrit. 2, H315; Skin Sens. 1, H317; Eye Irrit. 2, H319; Aquatic Chronic 3, H412	ND	8006-81-3	281-092-1	NR
1-(1,2,3,4,6,7,8,8a-Octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	>= 0,1 < 1%	Skin Corr. 2, H315; Skin Sens. 1, H317; Aquatic Chronic 2, H411	ND	68155-67-9	268-979-9	NR
1-(1,2,3,5,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	>= 0,1 < 1%	Skin Irrit. 2, H315; Skin Sens. 1, H317; Aquatic Chronic 1, H410	ND	68155-66-8	268-978-3	01-2119489 989-04-000 0
2-(4-tert-butylbenzyl)propionaldehyde	>= 0,1 < 0,3%	Repr. 1B, H360Fd	605-041-00-3	80-54-6	201-289-8	01-2119907 954-30-000 0

Substance	Concentration[w/w]	Classification	Index	CAS	EINECS	REACH
Isoeugenol	>= 0,1 < 1%	Skin Sens. 1A, H317 Limits: Skin Sens. 1A, H317 %C >=0,01;	604-094-00-X	97-54-1	202-590-7	NR
7-hydroxycitronellal	>= 0,1 < 1%	Skin Irrit. 2, H315; Skin Sens. 1, H317; Eye Dam. 1, H318; Eye Irrit. 2, H319	ND	107-75-5	ND	NR

**Fractionated global values**

H317	= 51,77	H411	= 26,41	H302	= 6,50	H412	= 4,45
H400	= 4,40	H410	= 4,80	H319	= 5,79	H315	= 4,49
H335	= 2,00	H360Fd	= 0,29	H373	= 0,60	H304	= 0,45
H318	= 0,19	H311	= 0,00	H301	= 0,00	H314	= 0,00
H226	= 0,00	H332	= 0,00				

**SECTION 4. First aid measures****4.1. Description of first aid measures****Inhalation:**

Air the area. Move immediately the contaminated patient from the area and keep him at rest in a well ventilated area. If you feel unwell seek medical advice.

**Direct contact with skin (of the pure product):**

Take contaminated clothing Immediately off.

Wash immediately with plenty of running water and possibly with soap, the areas of the body that have, or are only suspected to have, come in contact with the product.

In case of contact with skin, wash immediately with water and soap

**Direct contact with eyes (of the pure product):**

Wash immediately and thoroughly with running water, keeping eyelids open for at least 10 minutes, then protect your eyes with a dry sterile gauze. Seek medical advice immediately

**Ingestion:**

Not hazardous. It's possible to give activated charcoal in water or liquid paraffin medicine

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

No data available.

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

If skin irritation or rash occurs: Get medical advice/attention.

If eye irritation persists: Get medical advice/attention.

If medical advice is needed, have product container or label at hand.

**SECTION 5. Firefighting measures****5.1. Extinguishing media****Advised extinguishing agents:**

Water spray, CO2, foam, dry chemical, depending on the materials involved in the fire.

Extinguishing means to avoid:

Water jets. Use water jets only to cool the surfaces of the containers exposed to fire.

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

No data available.

## **5.3. Advice for firefighters**

Use protection for the breathing apparatus

Safety helmet and full protective suit.

The spray water can be used to protect the people involved in the extinction

You may also use selfrespirator, especially when working in confined and poorly ventilated area and if you use halogenated extinguishers (Halon 1211 fluobrene, Solkan 123, NAF, etc...)

Keep containers cool with water spray

# **SECTION 6. Accidental release measures**

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

6.1.1 For non-emergency personnel:

Leave the area surrounding the spill or release. Do not smoke

Wear gloves and protective clothing

6.1.2 For emergency responders:

Wear a mask, gloves and protective clothing. Suitable: LaTeX, nitrile, PVC

Delete all naked flames and potential sources of ignition. Do not smoke.

Provide adequate ventilation.

Evacuate danger area and, where appropriate, consult an expert.

## **6.2. Environmental precautions**

Contain spill

Inform the competent authorities.

Discharge the remains in compliance with the regulations

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

6.3.1 For containment:

Rapidly recover the product, wear a mask and protective clothing

Recover the product for reuse, if possible, or the removal.

6.3.2 For cleaning up:

After wiping up, wash with water the area and materials involved

6.3.3 Other information:

None in particular.

## **6.4. Reference to other sections**

Refer to paragraphs 8 and 13 for more information

# **SECTION 7. Handling and storage**

## **7.1. Precautions for safe handling**

At work do not eat or drink.

Contaminated work clothing should not be allowed out of the workplace.  
Wear protective gloves/protective clothing/eye protection/face protection.  
See also paragraph 8 below.

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

Keep in original container closed tightly. Do not store in open or unlabeled containers.  
Keep containers upright and safe by avoiding the possibility of falls or collisions.  
Store in a cool place, away from sources of heat and direct exposure of sunlight.

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

Private households (= general public = consumers):  
Handle with care.  
Store in ventilated place away from heat sources,  
Keep the container tightly closed.

Public domain (administration, education, entertainment, services, craftsmen):  
Handle with care. Store in a ventilated area and away from heat, keep the container tightly closed.

**SECTION 8. Exposure controls/personal protection****8.1. Control parameters**

There are no data on occupational exposure limits

- Substance:  $\alpha$ -Hexylcinnamaldehyde

DNEL

Systemic effects Long term Workers inhalation = 0,000078 (mg/m<sup>3</sup>)

Systemic effects Short term Workers inhalation = 0,00628 (mg/m<sup>3</sup>)

PNEC

Sweet water = 0,03 (mg/l)

sediment Sweet water = 47,7 (mg/kg/sediment)

Sea water = 0,003 (mg/l)

sediment Sea water = 4,77 (mg/kg/sediment)

ground = 9,51 (mg/kg ground)

- Substance: benzyl acetate

DNEL

Systemic effects Long term Workers inhalation = 21,9 (mg/m<sup>3</sup>)

Systemic effects Long term Workers dermal = 6,25 (mg/kg bw/day)

Systemic effects Long term Consumers inhalation = 5,5 (mg/m<sup>3</sup>)

Systemic effects Long term Consumers dermal = 3,125 (mg/kg bw/day)

Systemic effects Long term Consumers oral = 3,125 (mg/kg bw/day)

- Substance: 1-(2,3,8,8-Tetramethyl-1,2,3,4,5,6,7,8-octahydronaphthalen-2-yl)ethanone

DNEL

Systemic effects Long term Workers inhalation = 1,76 (mg/m<sup>3</sup>)

Systemic effects Long term Workers dermal = 1,73 (mg/kg bw/day)

Systemic effects Short term Workers inhalation = 1,76 (mg/m<sup>3</sup>)

Systemic effects Short term Workers dermal = 1,73 (mg/kg bw/day)

PNEC

Sweet water = 0,0028 (mg/l)

sediment Sweet water = 3,73 (mg/kg/sediment)

Sea water = 0,00028 (mg/l)

sediment Sea water = 0,75 (mg/kg/sediment)

ground = 0,705 (mg/kg ground)

- Substance: Linalool

DNEL

Systemic effects Long term Workers inhalation = 2,8 (mg/m<sup>3</sup>)

Systemic effects Long term Workers dermal = 2,5 (mg/kg bw/day)

Systemic effects Long term Consumers inhalation = 0,7 (mg/m<sup>3</sup>)

Systemic effects Long term Consumers dermal = 1,25 (mg/kg bw/day)

Systemic effects Long term Consumers oral = 0,2 (mg/kg bw/day)

- Substance: 2,6-di-tert-butyl-p-cresol

DNEL

Systemic effects Long term Workers inhalation = 3,5 (mg/m<sup>3</sup>)

Systemic effects Long term Workers dermal = 8,3 (mg/kg bw/day)

Systemic effects Long term Consumers inhalation = 1,74 (mg/m<sup>3</sup>)

Systemic effects Long term Consumers dermal = 5 (mg/kg bw/day)

Systemic effects Long term Consumers oral = 0,25 (mg/kg bw/day)

- Substance: 1-(1,2,3,4,6,7,8,8a-Octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one

DNEL

Systemic effects Short term Workers dermal = 1,73 (mg/kg bw/day)

Systemic effects Short term Consumers oral = 1,76 (mg/kg bw/day)

Local effects Short term Workers dermal = 0,1011 (mg/kg bw/day)

PNEC

Sweet water = 0,0028 (mg/l)

sediment Sweet water = 3,73 (mg/kg/sediment)

Sea water = 0,00028 (mg/l)

sediment Sea water = 0,75 (mg/kg/sediment)

ground = 0,705 (mg/kg ground)

- Substance: 1-(1,2,3,5,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one

DNEL

Systemic effects Short term Workers inhalation = 1,76 (mg/m<sup>3</sup>)

Systemic effects Short term Workers dermal = 1,73 (mg/kg bw/day)

PNEC

Sweet water = 0,0028 (mg/l)

sediment Sweet water = 3,73 (mg/kg/sediment)

Sea water = 0,00028 (mg/l)

sediment Sea water = 0,75 (mg/kg/sediment)

ground = 0,705 (mg/kg ground)

## 8.2. Exposure controls

Appropriate engineering controls:

Private households (= general public = consumers):

No specific checks planned

Public domain (administration, education, entertainment, services, craftsmen):

No specific monitoring foreseen

Individual protection measures:

(a) Eye / face protection

Not needed for normal use.





### (b) Skin protection

#### (i) Hand protection

Handle with gloves. Gloves must be checked before use. Use a technique suitable for removing gloves (without touching the outer surface of the glove) to avoid the skin contact with this product. Dispose of contaminated gloves after use in accordance with current legislation and good laboratory practices. Wash and dry your hands. The selected protective gloves have to satisfy the requirements of EU directive 89/686 / EEC e the resulting EN 374 standards.

Full contact

Material: Nitrile rubber

minimum thickness: 0.11 mm

breakthrough time: 480 min

The choice of an appropriate glove depends not only on the material but also on other quality characteristics which vary from one manufacturer to another.

For the choice of the type of gloves to use, consult the supplier / manufacturer of the gloves.

Observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves.

#### (ii) Other

Wear normal work clothing.

### (c) Respiratory protection

Not needed for normal use.

### (d) Thermal hazards

No hazard to report

Environmental exposure controls:

Related to contained substances:

benzyl benzoate:

DO NOT drain to drain.

## SECTION 9. Physical and chemical properties

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

Physical and chemical properties	Value	Determination method
Appearance	Perfumed sachet	
Colour	irrelevant	
Odour	characteristic	
Odour threshold	not determined	
pH	irrelevant	
Melting point/freezing point	not determined	
Initial boiling point and boiling range	not determined	
Flash point	> 60 °C	ASTM D92
Evaporation rate	irrelevant	
Flammability (solid, gas)	irrelevant	
Upper/lower flammability or explosive limits	not determined	
Vapour pressure	irrelevant	
Vapour density	not determined	
Relative density	irrelevant	
Solubility	not applicable	



Physical and chemical properties	Value	Determination method
Water solubility	not applicable	
Partition coefficient: n-octanol/water	not determined	
Auto-ignition temperature	not determined	
Decomposition temperature	not determined	
Viscosity	not determined	
Explosive properties	not explosive	
Oxidising properties	non-oxidizing	

**9.2. Other information**

Content of VOC ready to use condition: 2,95 %

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

No reactivity hazards

**10.2. Chemical stability**

No hazardous reaction when handled and stored according to provisions.

**10.3. Possibility of hazardous reactions**

There are no hazardous reactions

**10.4. Conditions to avoid**

Nothing to report

**10.5. Incompatible materials**

None in particular.

**10.6. Hazardous decomposition products**

Does not decompose when used for intended uses.

**SECTION 11. Toxicological information****11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008**

ATE(mix) oral = 16.660,5 mg/kg

ATE(mix) dermal = ∞

ATE(mix) inhal = ∞

(a) acute toxicity: Benzyl salicylate: Oral Rat LD50 = 2227 mg/kg bw

α-Hexylcinnamaldehyde: Oral (rat) LD50: 2450 mg/kg

[3R-(3α,3aβ,7β,8aα)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one: LD50

rat Dose: > 5.000 mg/kg

LD50 rabbit Dose: > 5.000 mg/kg

1-(2,3,8,8-Tetramethyl-1,2,3,4,5,6,7,8-octahydronaphthalen-2-yl)ethanone: TOXIC DOSE 1-LD > 50 5000 mg/kg (oral rat)

TOXIC DOSE 2-LD > 50 5000 mg/kg (skn-rbt)

2,6-di-tert-butyl-p-cresol: LD50 oral: 1700 mg/kg (rat)

LD50 oral: 800 - 1600 mg/kg (mouse)

LD50 dermal: >8000 mg/kg (guinea pig)

2-(4-tert-butylbenzyl)propionaldehyde: Oral Rat LD50 mg/kg 3.700

Skin Rabbit > 2.000 mg/kg LD50

(b) skin corrosion/irritation: Benzyl salicylate: Skin - rabbit

Result: No skin irritation

(OECD Test Guideline 404)

benzyl acetate: Skin-rabbit-skin irritant-24 h

[3R-(3 $\alpha$ ,3 $\beta$ ,7 $\beta$ ,8 $\alpha$ )]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one: rabbit

Result: Skin irritation

Exposure time: 12:0 am

(c) serious eye damage/irritation: If brought into contact with eyes, the product, causes significant irritations which may last for more than 24 hours.

Benzyl salicylate: Eyes - In vitro study

Result: Moderate eye irritation

(OECD Test Guideline 437)

Eyes - rabbit

Result: Irritating to eyes.

(Draize Test)

(d) respiratory or skin sensitization: The product, if brought into contact with skin can cause skin sensitization.

[3R-(3 $\alpha$ ,3 $\beta$ ,7 $\beta$ ,8 $\alpha$ )]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one:

Maximisation study human

Result: Did not cause sensitization on laboratory animals.

Test substance: 30% in petrolatum

Coumarin: Test: Inhalation Sensitization Route: Inhalation Species: Rat = 293 mg/kg

Test: Inhalation Sensitization Route: Inhalation Species: Mouse = 196 mg/kg

(e) germ cell mutagenicity: benzyl acetate: Laboratory tests revealed mutagenic effects.

Genotoxicity in vitro lymphocyte-topo-mutation in mammalian somatic cells

In vitro genotoxicity-Hamster-Lungs

Cytogenetic analysis

(f) carcinogenicity: benzyl acetate: Cancerogenicity-rat-Oral

Oncogenia: second neoplastic RTECS gastrointestinal tumors

Cancerogenicity-rat-Oral

Oncogenia: Liver cancer second neoplastic RTECS:

This product or contains a component that cannot be classified according to its effect carcinogen IARC classification, ACGIH, NTP or EPA.

IARC: Group 3-3: Not classifiable as to its carcinogenicity to humans (Benzyl acetate)

(g) reproductive toxicity: based on available data, the classification criteria are not met.

(h) specific target organ toxicity (STOT) single exposure: based on available data, the classification criteria are not met.

(i) specific target organ toxicity (STOT) repeated exposure based on available data, the classification criteria are not met.

(j) aspiration hazard: Benzyl salicylate: in vivo assay - mouse

May cause allergic skin reaction.

(OECD Test Guideline 429)

Related to contained substances:

Benzyl salicylate:

LD50 (rat) Oral (mg/kg body weight) = 2227

$\alpha$ -Hexylcinnamaldehyde:

LD50 (rat) Oral (mg/kg body weight) = 2450

benzyl benzoate:

ROUTES OF EXPOSURE: The substance can be absorbed into the body by inhalation of its aerosols through the skin and by ingestion.

INHALATION RISK: No indication can be given about the rate in which a harmful concentration in the air is reached on evaporation of this substance at 20 ° C.

EFFECTS OF SHORT-TERM EXPOSURE: The substance is irritating to the eyes, the skin and the respiratory tract.

EFFECTS OF REPEATED OR LONG-TERM EXPOSURE: Repeated or prolonged contact with the skin may cause dermatitis.

#### ACUTE RISKS / SYMPTOMS

INHALATION Cough. Sore throat.

CUTE CAN BE ABSORBED! Dry skin. Redness.

EYES Redness.

LD50 (rat) Oral (mg/kg body weight) = 1680

LD50 Dermal (rat or rabbit) (mg/kg body weight) = 4000

benzyl acetate:

Oral LD50-rat-2,490 mg/kg

Observations: behavior: somnolence (General depressed activity)

LD50 Dermal-rabbit-> 5,000 mg/kg

Acute toxicity of the vapor (LC50): 245 8 hours

LD50 (rat) Oral (mg/kg body weight) = 2490

LD50 Dermal (rat or rabbit) (mg/kg body weight) = 5000

CL50 Inhalation (rat) vapour/dust/mist/fume (mg/l/4h) or gas (ppmV/4h) = 245

[3R-(3 $\alpha$ ,3 $\beta$ ,7 $\beta$ ,8 $\alpha$ )]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one:

LD50 (rat) Oral (mg/kg body weight) = 5000

LD50 Dermal (rat or rabbit) (mg/kg body weight) = 5000

2-phenylethanol:

LD50 (rat) Oral (mg/kg body weight) = 1790

LD50 Dermal (rat or rabbit) (mg/kg body weight) = 806

methyl anthranilate:

LD50 Oral - rat - 2.910 mg / kg

Remarks: Behavior: drowsiness (generic depressive activity) Behavior: coma

DL50 Dermal - on rabbit -> 5.000 mg / kg

LD50 (rat) Oral (mg/kg body weight) = 2910

LD50 Dermal (rat or rabbit) (mg/kg body weight) = 5000

1-(5,6,7,8-tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl)ethan-1-one:

LD 50 ORAL / RAT ( mg /Kg) : 920

LD50 DERMAL/RAT( mg /Kg) : 7940

LD50 (rat) Oral (mg/kg body weight) = 920

LD50 Dermal (rat or rabbit) (mg/kg body weight) = 7940

1-(2,3,8,8-Tetramethyl-1,2,3,4,5,6,7,8-octahydronaphthalen-2-yl)ethanone:

LD50 (rat) Oral (mg/kg body weight) = 5000

LD50 Dermal (rat or rabbit) (mg/kg body weight) = 5000

Linalool:

LD50 (rat) Oral (mg/kg body weight) = 2790

LD50 Dermal (rat or rabbit) (mg/kg body weight) = 5610

CL50 Inhalation (rat) vapour/dust/mist/fume (mg/l/4h) or gas (ppmV/4h) = 307

Coumarin:

Acute oral LD50 for rats: 293mg/kg

Acute oral LD50 for mice: 196mg/kg  
Irritant data: Not determined  
Inhalation data: Not determined  
Mutagenicity data: Not determined  
LD50 (rat) Oral (mg/kg body weight) = 293  
LD50 Dermal (rat or rabbit) (mg/kg body weight) = 242

2,6-di-tert-butyl-p-cresol:  
LD50 (rat) Oral (mg/kg body weight) = 1700  
LD50 Dermal (rat or rabbit) (mg/kg body weight) = 8000

Ylang Ylang essential oil:  
LD50 (rat) Oral (mg/kg body weight) = 5000  
LD50 Dermal (rat or rabbit) (mg/kg body weight) = 5000

1-(1,2,3,5,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one:  
Acute oral toxicity  
LD50 rat  
Dose: > 5,000 mg/kg  
Method: OECD Test Guideline 401  
Remarks: IFF

Acute dermal toxicity  
LD50 rat  
Dose: > 5,000 mg/kg  
Method: OECD Test Guideline 402  
LD50 (rat) Oral (mg/kg body weight) = 5000  
LD50 Dermal (rat or rabbit) (mg/kg body weight) = 5000

2-(4-tert-butylbenzyl)propionaldehyde:  
LD50 (rat) Oral (mg/kg body weight) = 3700  
LD50 Dermal (rat or rabbit) (mg/kg body weight) = 2000

7-hydroxycitronellal:  
LD50 (rat) Oral (mg/kg body weight) = 5000

## 11.2. Information on other hazards

No data available.

## SECTION 12. Ecological information

### 12.1. Toxicity

Related to contained substances:

Benzyl salicylate:  
Zebra fish (Brachydanio rerio) 96 hour LC50 = 1.03 mg/L  
48 hour LC50 = 1.4mg/l  
C(E)L50 (mg/l) = 1,03

$\alpha$ -Hexylcinnamaldehyde:  
Freshwater Fish Toxicity: acute LC50 >1-10 mg/L  
Freshwater Invertebrates Toxicity: acute EC <1 mg/L  
Algal Toxicity: acute EC <1 mg/L.  
C(E)L50 (mg/l) = 0,99

**benzyl benzoate:**

During normal use this substance is released into the environment. However, great care must be taken to prevent any additional release, for example for inappropriate disposal.

C(E)L50 (mg/l) = 2,32

**benzyl acetate:**

Toxicity to fish LC50-Oryzias latipes-4 mg/l-96 h

C(E)L50 (mg/l) = 4

**methyl anthranilate:**

Toxicity to fish

LC50 - Lepomis macrochirus - 9.12 mg / l - 96 h

NOEC mortality - Oncorhynchus mykiss (rainbow trout) - 5 mg / l - 96 h

Toxicity to daphnia and other aquatic invertebrates

EC50 - Daphnia magna (Large water flea) - 18.2 mg / l - 48 h

C(E)L50 (mg/l) = 9,12

NOEC (mg/l) = 5

**1-(5,6,7,8-tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl)ethan-1-one:**

Fathead minnow Pimephales promelas LC50 = 0.100

Marine copepod Acartia tonsa 48-h, marine, mortality LC50 = 0.71

C(E)L50 (mg/l) = 0,1 10

10

**1-(2,3,8,8-Tetramethyl-1,2,3,4,5,6,7,8-octahydronaphthalen-2-yl)ethanone:**

Endpoint: LC50 species: leptomismacrochirus (fish-salt Bluegrill) = 1.30 mg/l-h Duration: 96-Note:: method: OECD 203 TG

Endpoint: EC50-species: Daphnia magna (Water flea) = 1.38 mg/l-h Duration: 48-comments:: semi-static test method: OECD TG 202

Endpoint: EC50 Desmodesmus subspicatus-species (green algae) = 2.60 mg/l-h Duration: 72-

Note:: static test method: OECD TG201

C(E)L50 (mg/l) = 1,3

**Linalool:**

Fish: 96h LC50:39 mg/L (Oryzias latipes)

Crustacea: 48h EC50:52 mg/L (Daphnia magna)

Algae: 72h EC50:28 mg/L (Selenastrum capricornutum)

C(E)L50 (mg/l) = 27,799999

**Coumarin:**

Toxicity to fish LC50 - Poecilia reticulata (guppy) - 56 mg/l - 96 h

Toxicity to daphnia and other aquatic invertebrates LC50 - Daphnia magna (Water flea) - 3.5 mg/l - 48 h

C(E)L50 (mg/l) = 13,5

**2,6-di-tert-butyl-p-cresol:**

Toxicity to fish LC50 - Oryzias latipes - 5.3 mg/l - 48 h

Toxicity to daphnia and other aquatic invertebrates EC50 - Daphnia pulex (Water flea) - 1.44 mg/l - 48 h

C(E)L50 (mg/l) = 1,44

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In conformity to Regulation (EU) 2020/878

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

Toxicity to fish:

semi-static test LC50

Species: *Lepomis macrochirus* (Bluegill sunfish)

Dose: 1.3 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates.:

semi-static test EC50

Species: *Daphnia magna* (Water flea)

Dose: 1.38 mg/l

Exposure time: 48 h

Method: OECD Test Guideline 202

IFF

C(E)L50 (mg/l) = 1,3

NOEC (mg/l) = 100

2-(4-tert-butylbenzyl)propionaldehyde:

*Daphnia magna* 48 hrs-LC50 = 0.40 mg/l

Green algae 96 hrs-EC50 = 0.827 mg/l

C(E)L50 (mg/l) = 0,4

The product is dangerous for the environment as it is toxic to aquatic organisms following acute exposure.

Use according to good working practices to avoid pollution into the environment.

## 12.2. Persistence and degradability

Related to contained substances:

Linalool:

90 % (by BOD), 99 % (by TOC), 100 % (by GC)

Coumarin:

100% (by BOD), 100% (by TOC), 99.6% (by GC)

2-(4-tert-butylbenzyl)propionaldehyde:

92% "biodegradation after 28 days. 96% after day 31.

## 12.3. Bioaccumulative potential

Related to contained substances:

Linalool:

106

Coumarin:

6.7

## 12.4. Mobility in soil

Related to contained substances:

Linalool:

log Pow: 2.55

Soil adsorption (Koc): 75

Henry's Law constant(PaM3/mol): 2

Coumarin:

log Pow: 1.39

Soil adsorption (Koc): No data available

Henry's Law constant(PaM3/mol): 0.7

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

No PBT/vPvB ingredient is present

**12.6. Endocrine disrupting properties**

No data available.

**12.7. Other adverse effects**

No adverse effects

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

Do not reuse empty containers. Dispose of them in accordance with the regulations in force. Any remaining product should be disposed of according to applicable regulations by addressing to authorized companies.

Recover if possible. Send to authorized discharge plants or for incineration under controlled conditions. Operate according to local and National rules in force

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

ADR/RID/IMDG/ICAO-IATA: 0000

ADR exemption because compliance with the following characteristics:

Combination packagings: per inner packaging 5 kg per package 30 Kg

Inner packagings placed in shrink-wrapped or stretch-wrapped trays: per inner packaging 5 kg per package 20 Kg

**14.2. UN proper shipping name**

ADR/RID/IMDG: MATERIA PERICOLOSA PER L'AMBIENTE, SOLIDA, N.A.S. (Salicilato di benzile,  $\alpha$ -Hexylcinnamaldehyde, benzile benzoato, acetato di benzile, ACETYLCEDRENE, 2-(4-terz-butylbenzil)propionaldeide, 1-(5,6,7,8-tetraidro-3,5,5,6,8,8-esametil-2-naftil) etan-1-one, 1',2',3',4',5',6',7',8'-ottaidro-2',3',8',8'-tetrametil-2'-acetonaftone, Coumarin, 2,6-di-terz-butyl-p-cresolo, 1-(1,2,3,4,6,7,8,8a-Octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one, 1-(1,2,3,5,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one, eptan-2-one)

ADR/RID/IMDG: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Benzyl salicylate,  $\alpha$ -Hexylcinnamaldehyde, benzyl benzoate, benzyl acetate, [3R-(3 $\alpha$ ,3 $\beta$ ,7 $\beta$ ,8 $\alpha$ )]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one, 2-(4-terz-butylbenzil)propionaldehyde, 1-(5,6,7,8-tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl)ethan-1-one, 1-(2,3,8,8-Tetramethyl-1,2,3,4,5,6,7,8-octahydronaphthalen-2-yl)ethanone, Coumarin, 2,6-di-terz-butyl-p-cresol, 1-(1,2,3,4,6,7,8,8a-Octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one, 1-(1,2,3,5,6,7,8,8a-octah)

ICAO-IATA: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Benzyl salicylate,  $\alpha$ -Hexylcinnamaldehyde, benzyl benzoate, benzyl acetate, [3R-(3 $\alpha$ ,3 $\beta$ ,7 $\beta$ ,8 $\alpha$ )]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one,



2-(4-tert-butylbenzyl)propionaldehyde, 1-(5,6,7,8-tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl)ethan-1-one, 1-(2,3,8,8-Tetramethyl-1,2,3,4,5,6,7,8-octahydronaphthalen-2-yl)ethanone, Coumarin, 2,6-di-tert-butyl-p-cresol, 1-(1,2,3,4,6,7,8,8a-Octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one, 1-(1,2,3,5,6,7,8,8a-octah

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

ADR/RID/IMDG/ICAO-IATA: Class : 9  
ADR/RID/IMDG/ICAO-IATA: Label :  
ADR: Tunnel restriction code : --  
ADR/RID/IMDG/ICAO-IATA: Limited quantities : 5 kg  
IMDG - EmS : F-A, S-F

**14.4. Packing group**

ADR/RID/IMDG/ICAO-IATA: III

**14.5. Environmental hazards**

ADR/RID/ICAO-IATA: Product is environmentally hazardous  
IMDG: Marine polluting agent : Yes

**14.6. Special precautions for user**

No data available.

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

It is not intended to carry bulk

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

Seveso category:  
E2 - ENVIRONMENTAL HAZARDS

REGULATION (EU) No 1357/2014 - waste:  
HP14 - Ecotoxic

**15.2. Chemical safety assessment**

The supplier has made an assessment of chemical safety

**SECTION 16. Other information****16.1. Other information**

Points modified compared to previous release: 1.1. Product identifier, 2.1. Classification of the substance or mixture, 2.2. Label elements, 2.3. Other hazards, 4.1. Description of first aid measures, 8.1. Control parameters, 8.2. Exposure controls, 9.2. Other information, 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008, 12.1. Toxicity, 12.2. Persistence and degradability, 12.5. Results of PBT and vPvB assessment, 12.6. Endocrine disrupting properties, 14.1. UN number or ID number, 14.2. UN proper shipping name, 14.3. Transport hazard class(es), 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Description of the hazard statements exposed to point 3  
H317 = May cause an allergic skin reaction.  
H411 = Toxic to aquatic life with long lasting effects.

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H302 = Harmful if swallowed.  
H412 = Harmful to aquatic life with long lasting effects.  
H400 = Very toxic to aquatic life.  
H410 = Very toxic to aquatic life with long lasting effects.  
H319 = Causes serious eye irritation.  
H315 = Causes skin irritation.  
H335 = May cause respiratory irritation.  
H373 = May cause damage to organs through prolonged or repeated exposure .  
H304 = May be fatal if swallowed and enters airways.  
H360Fd = May damage fertility. Suspected of damaging the unborn child.  
H318 = Causes serious eye damage.

Classification based on data of all mixture components

Main normative references:

Directive 1999/45/EC

Directive 2001/60/EC

Regulation 1272/2008/EC

Regulation 2010/453/EC

\*\* The information contained herein is based on our knowledge at the date above.

Related solely to the product and do not constitute a guarantee of a particular quality.

It is the duty of the user to ensure that these are appropriate and complete information regarding the specific use intended.

This data sheet cancels and replaces any previous edition.