

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

Product code : Hygienfresh Antitarne professional  
Trades code : A80-075  
Product line: Hygienfresh

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

Mothproof professional-medical surgical-registration # 19018 of Ministry of health

Sectors of use:

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

Product category:

Biocidal Products (e.g. Disinfectants, pest control)

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](mailto:info@tintolav.com) - Sito internet: [www.tintolav.com](http://www.tintolav.com)

Email tecnico competente: [a.conedera@tintolav.com](mailto:a.conedera@tintolav.com)

National contact: Malta: Emergency Ambulance 112

Accident & 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 Irrit. 2, Aquatic Chronic 1

Hazard statement Code(s):

H315 - Causes skin irritation.

H410 - Very toxic to aquatic life with long lasting effects. (1)

If brought into contact with the skin, the product causes significant inflammation with erythema, scabs, or edema.

The product is dangerous to the environment as it is very 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):  
H315 - Causes skin irritation.  
H410 - Very toxic to aquatic life with long lasting effects. (1)

Supplemental Hazard statement Code(s):  
EUH208 - Contains pentadecan-15-olide. May produce an allergic reaction.

Precautionary statements:

General

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

P102 - Keep out of reach of children.

Prevention

P264 - Wash your hand thoroughly after handling.

P273 - Avoid release to the environment.

Response

P302+P352 - IF ON SKIN: Wash with plenty of water and soap.

P332+P313 - If skin irritation occurs: Get medical advice/attention.

Disposal

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

Contains:

p-menth-1-en-8-olo, pentadecan-15-olide

Content of VOC ready to use condition: 0,00 %

### 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

Irrilevant

### 3.2 Mixtures

Refer to paragraph 16 for full text of hazard statements

Substance	Concentration	Classification	Index	CAS	EINECS	REACH
p-menth-1-en-8-yl acetate - FEMA 3047	> 10 <= 20%	Aquatic Chronic 2, H411		80-26-2	201-265-7	
Isobutyl salicylate - FEMA 2213	> 5 <= 10%	Acute Tox. 4, H302		87-19-4	201-729-9	
bornan-2-one - FEMA 2230	> 5 <= 10%	Flam. Sol. 2, H228; Acute Tox. 4, H332; STOT SE 2, H371		76-22-2	200-945-0	
p-menth-1-en-8-olo	> 1 <= 5%	Skin Irrit. 2, H315; Eye Irrit. 2, H319		10482-56-1	233-986-8	
Linalyl acetate - FEMA 2636	> 1 <= 5%	Skin Irrit. 2, H315; Eye Irrit. 2, H319; Aquatic Chronic 2,		115-95-7	204-116-4	01-2119454 789-19-000 0

Substance	Concentration	Classification	Index	CAS	EINECS	REACH
		H411				
2,3,5,6-tetrafluorobenzyl trans-2-(2,2-dichlorovinyl)-3,3-dimethylcyclopropanecarboxylate	> 1 <= 5%	Skin Irrit. 2, H315; Aquatic Acute 1, H400; Aquatic Chronic 1, H410 1000	607-223-00-8	118712-89-3	405-060-5	
alpha-Cedrene - FEMA 0	> 0,1 <= 1%	Asp. Tox. 1, H304; Aquatic Acute 1, H400; Aquatic Chronic 1, H410 10 10		469-61-4	207-418-4	
pentadecan-15-olide - FEMA 2840	> 0,1 < 1%	Skin Sens. 1, H317		106-02-5	203-354-6	

### Fractionated global values

H411	= 15,50	H302	= 10,00	H228	= 7,00	H332	= 7,00
H371	= 7,00	H319	= 8,00	H315	= 11,00	H400	= 3,50
H410	= 3,50	H317	= 0,50	H304	= 0,50		

## 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 for at least 10 minutes.

#### 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 occurs: 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:

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.

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**

No data available.

**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  
When handling the pure product use chemical resistant protective gloves (EN 374-1/EN374-2/EN374-3)

(ii) Other  
Wear normal work clothing.

(c) Respiratory protection  
Not needed for normal use.

(d) Thermal hazards  
No hazard to report

Environmental exposure controls:

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

**SECTION 9. Physical and chemical properties**

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

Physical and chemical properties	Value	Determination method
Appearance	Liquid soaked on inert material (cellulose)	
Odour	characteristic	
Odour threshold	not determined	
pH	not applicable	
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)	not applicable	
Upper/lower flammability or explosive limits	not determined	
Vapour pressure	not applicable	
Vapour density	not determined	
Relative density	not applicable	
Solubility	not applicable	
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: 0,00 %

**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 toxicological effects**

ATE(mix) oral = 15.600,0 mg/kg

ATE(mix) dermal = ∞

ATE(mix) inhal = ∞

(a) acute toxicity: p-menth-1-en-8-yl acetate: Oral LD50 was determined to be 5075 mg/kg for rats.

bornan-2-one: Inhalation, rat: LC50 = 500 mg/m<sup>3</sup>;

LD50 Oral - mouse - 1,310 mg/kg

(b) skin corrosion/irritation: If brought into contact with the skin, the product causes significant inflammation with erythema, scabs, or edema.

Linalyl acetate: Linalyl acetate (100%) appeared to be severely irritating to rabbit skin and moderately irritating to the skin of the guinea pig. In a test with miniature swines application of 0.05 g linalyl acetate under a patch for 48 hours, no irritation was observed.

Linalyl acetate in Application of acetone (33%) to the back of male volunteers without known allergies during 48 hours under occlusion did not induce signs of irritation up to 120 hours after removal of the patch.

alpha-Cedrene: Skin - rabbit

Result: Skin irritation

(c) serious eye damage/irritation: based on available data, the classification criteria are not met.

(d) respiratory or skin sensitization: based on available data, the classification criteria are not met.

(e) germ cell mutagenicity: Linalyl acetate: 14550 Rat LD50 (mg/kg bw)

13360 Mouse LD50 (mg/kg bw)

(f) carcinogenicity: based on available data, the classification criteria are not met.

(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: Linalyl acetate: Inhalation exposure of mice to Swiss linalyl acetate 2.74 mg/L air during 90 minutes led to reduced

motor activity compared to untreated controls. The effect was more severe in mice of aged 6-8 weeks (up to 100% reduction) than in mice of 6 months (up to 81% reduction). A relationship with dose was suspected, based on the (not reported) results of a separate test with a double dose in old mice (REF. 16).

Related to contained substances:

p-menth-1-en-8-yl acetate:

LD50 (rat) Oral (mg/kg body weight) = 5075

Isobutyl salicylate:

DL50 Orale - Ratto - 1.560 mg/kg

DL50 Orale - Topo - 5.100 mg/kg

skin-rabbit LD50 > 5000 mg/kg

Food and Cosmetics Toxicology. Vol. 13, Pg. 813, 1975.

LD50 (rat) Oral (mg/kg body weight) = 1560

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

bornan-2-one:

LD50 (rat) Oral (mg/kg body weight) = 1310

CL50 Inhalation (rat) vapour/dust/mist/fume (mg/l/4h) or gas (ppmV/4h) = 500

p-menth-1-en-8-ol:

Target organ-specific toxic-single exposure

Inhalation-Can irritate the respiratory system.

LD50 (rat) Oral (mg/kg body weight) = 5170

Linalyl acetate:

LD50 (rat) Oral (mg/kg body weight) = 14550

LD50 Dermal (rat or rabbit) (mg/kg body weight) = 13360

2,3,5,6-tetrafluorobenzyl trans-2-(2,2-dichlorovinyl)-3,3-dimethylcyclopropanecarboxylate:

LD50 Oral - rat -> 5,000 mg / kg

LC50 Inhalation - rat - 4 h -> 513 mg / m<sup>3</sup>

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

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

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

CL50 Inhalation (rat) vapour/dust/mist/fume (mg/l/4h) or gas (ppmV/4h) = 513

pentadecan-15-olide:

LD50 (rat) Oral (mg/kg body weight) = 2000

LD50 Dermal (rat or rabbit) (mg/kg body weight) = 2000

## SECTION 12. Ecological information

### 12.1. Toxicity

Related to contained substances:

p-menth-1-en-8-yl acetate:

96 Hour LC50 = 1.75 mg/l

Daphnia magna 48 hrs LC50 = 1.16 mg/l

C(E)L50 (mg/l) = 1,16

bornan-2-one:

For. of the test: 1 h Specification: LC50 (Camphor; Nr. CAS: 76-22-2) Parametro: Fish fathead minnows Value = 112 mg / l

For. test: 24 h Specification: LC50 (Camphor; Nr. CAS: 76-22-2) Parametro: Fish Value fathead minnows = 111 mg / l

For. test: 48 h Specification: LC50 (Camphor; Nr. CAS: 76-22-2) Parametro: Fish Value fathead minnows = 110 mg / l

For. of the test: 72 h Specification: LC50 (Camphor; Nr. CAS: 76-22-2) Parametro: Fish Value fathead minnows = 110 mg / l

For. test: 96 h Specification: LC50 (Camphor; Nr. CAS: 76-22-2) Parametro: Fish Brachydanio rerio value = 35 mg / l

For. test: 96 h Specification: LC50 (Camphor; Nr. CAS: 76-22-2) Parametro: Fish Brachydanio rerio value = 50 mg / l

C(E)L50 (mg/l) = 50

Linalyl acetate:

Cyprinus carpio, 96-hour LC50 value of 2.86 mg/L



Daphnia magna, 48-hour EC50 value of 2.91 mg/L  
Scenedesmus subspicatus, 72-hour exposure, EC50 value of 4.2 mg/L  
C(E)L50 (mg/l) = 2,86

2,3,5,6-tetrafluorobenzyl trans-2-(2,2-dichlorovinyl)-3,3-dimethylcyclopropanecarboxylate:  
Endpoint: LC50 - Species: Fish - h Duration: 96 - mg / l: 0.0007  
Endpoint: LC50 - Species: Algae - h Duration: 72 - mg / l: 0.1  
Endpoint: EC50 - Species: Daphnia - h Duration: 48 - mg / l: 0.0012  
C(E)L50 (mg/l) = 0,0007 1000

alpha-Cedrene:  
EC50 Daphnia pulex-(Water flea)-0.044 mg/l-48 h  
C(E)L50 (mg/l) = 0,044 10  
10

pentadecan-15-olide:  
Toxicity to fish LC0 - other fish -> 0.11 mg / l - 96 h

Toxicity to daphnia and other aquatic invertebrates EC0 - Daphnia magna (Water flea) -> 1.27 mg / l - 48 h  
C(E)L50 (mg/l) = 2

The product is dangerous for the environment as it is very 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:  
p-menth-1-en-8-yl acetate:  
63% of the test substance was biodegraded in 28 day whereas  
79% of reference material (aniline) was biodegraded during the  
same period

### **12.3. Bioaccumulative potential**

No data available.

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

No data available.

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

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

### **12.6. 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**

ADR/RID/IMDG/ICAO-IATA: 3077

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: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (bornan-2-one, 2,3,5,6-tetrafluorobenzyl trans-2-(2,2-dichlorovinyl)-3,3-dimethylcyclopropanecarboxylate, alpha-Cedrene)

ICAO-IATA: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (bornan-2-one, 2,3,5,6-tetrafluorobenzyl trans-2-(2,2-dichlorovinyl)-3,3-dimethylcyclopropanecarboxylate, alpha-Cedrene)

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

ADR/RID/IMDG/ICAO-IATA: Class : 9

ADR/RID/IMDG/ICAO-IATA: Label : Onu

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. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

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:

E1 - ENVIRONMENTAL HAZARDS

E2 - ENVIRONMENTAL HAZARDS

REGULATION (EU) No 1357/2014 - waste:  
HP4 - Irritant — skin irritation and eye damage  
HP14 - Ecotoxic

**15.2. Chemical safety assessment**

The supplier has made an assessment of chemical safety

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

Description of the hazard statements exposed to point 3

H411 = Toxic to aquatic life with long lasting effects.

H302 = Harmful if swallowed.

H228 = Flammable solid.

H332 = Harmful if inhaled.

H371 = May cause damage to organs .

H315 = Causes skin irritation.

H319 = Causes serious eye irritation.

H400 = Very toxic to aquatic life.

H410 = Very toxic to aquatic life with long lasting effects.

H304 = May be fatal if swallowed and enters airways.

H317 = May cause an allergic skin reaction.

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.

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