

**FO 70869 – BLUE ORCHARD**



**SAFETY DATA SHEET**

(REACH regulation (EC) n° 1907/2006 - n° 2020/878)

**SECTION 1 : IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

**1.1. Product identifier**

Product name : BLUE ORCHARD

Product code : FO 70869

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

Concentrated perfume composition free from alcohol.

For industrial and professional use only.

Use: Perfumes, cosmetics and detergents.

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

Registered company name : PARFUMS PLUS FRANCE

Address : Parc d'activité de la Sarrée - Route de Gourdon 06620 Le Bar-sur-Loup FRANCE

Telephone : 04 93 36 51 94 Fax : 04 93 36 61 93

info@parfumsplus.com

http://www.parfumsplus.com

mailto:legislation@parfumsplus.com

**1.4. Emergency telephone number : +33 (0)1 45 42 59 59.**

Association/Organisation : INRS / ORFILA <http://www.centres-antipoison.net>.

**SECTION 2 : HAZARDS IDENTIFICATION**

**2.1. Classification of the substance or mixture**

**In compliance with EC regulation No. 1272/2008 and its amendments.**

Skin irritation, Category 2 (Skin Irrit. 2, H315).

Eye irritation, Category 2 (Eye Irrit. 2, H319).

Skin sensitisation, Category 1 (Skin Sens. 1, H317).

Hazardous to the aquatic environment - Chronic hazard, Category 2 (Aquatic Chronic 2, H411).

**2.2. Label elements**

**In compliance with EC regulation No. 1272/2008 and its amendments.**

Hazard pictograms :



GHS07



GHS09

Signal Word :

WARNING

Product identifiers :

EC 259-174-3	1-(1,2,3,4,5,6,7,8-OCTAHYDRO-2,3,8-TETRAMETHYL-2-NAPHTHALENYL)ETHANONE
EC 215-635-0	METHYL IONONE (MIXTURE OF ISOMERS)
EC 203-375-0	DL-CITRONELLOL
EC 251-649-3	6,7-DIHYDRO-1,1,2,3,3-PENTAMETHYL-4(5H)-INDANONE
603-241-00-5	GERANIOL
EC 202-236-1	ISOEUGENYL ACETATE
EC 203-161-7	2-METHYL-3-(P-ISOPROPYLPHENYL)PROPIONALDEHYDE
EC 245-833-2	1-(2,6,6-TRIMETHYLCYCLOHEXA-1,3-DIENYL)-2-BUTEN-1-ONE

## FO 70869 – BLUE ORCHARD



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## Hazard statements :

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H411	Toxic to aquatic life with long lasting effects.

## Precautionary statements - Prevention :

P261	Avoid breathing dust/fume/gas/vapours.
P264	Wash hands thoroughly after handling.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.

## Precautionary statements - Response :

P302 + P352	IF ON SKIN: Wash with plenty of water and soap.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332 + P313	If skin irritation occurs: Get medical advice/attention.
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.
P337 + P313	If eye irritation persists: Get medical advice/attention.
P362 + P364	Take off contaminated clothing and wash it before reuse.

## Precautionary statements - Disposal :

P501	Dispose of the contents/container in a hazardous or special waste collection centre in accordance with local, regional, national and/or international regulations.
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## 2.3. Other hazards

The mixture does not contain substances classified as 'Substances of Very High Concern' (SVHC)  $\geq 0.1\%$  published by the European Chemicals Agency (ECHA) under article 59 of REACH: <http://echa.europa.eu/fr/candidate-list-table>

The mixture fulfils neither the PBT nor the vPvB criteria for mixtures in accordance with annexe XIII of the REACH regulations EC 1907/2006.

The mixture does not contain substances  $\geq 0.1\%$  with endocrine disrupting properties in accordance with the criteria of the Delegated Regulation (EU) 2017/2100 of the Commission or Regulation (EU) 2018/605 of the Commission.

The mixture does not contain synthetic polymer microparticles meeting the definition of microplastics within the meaning of Regulation (EC) No 1907/2006 (REACH).

## SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

## 3.2. Mixtures

## Composition :

Identification	Classification (EC) 1272/2008	Note	%
CAS: 105-95-3 EC: 203-347-8 REACH: 01-2119976314-33-XXXX ETHYLENE BRASSYLATE	Aquatic Chronic 3, H412		26 $\leq$ x% < 29
CAS: 60-12-8 EC: 200-456-2 REACH: 01-2119963921-31-XXXX PHENETHYL ALCOHOL	GHS07 Wng Acute Tox. 4, H302 Eye Irrit. 2, H319		20 $\leq$ x% < 23
CAS: 54464-57-2 EC: 259-174-3 REACH: 01-2119489989-04-XXXX 1-(1,2,3,4,5,6,7,8-OCTAHYDRO-2,3,8,8-TETRAMETHYL-2-NAPHTHALENYL)ETHANONE	GHS07, GHS09 Wng Skin Irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Chronic 1, H410 M Chronic = 1		14 $\leq$ x% < 17
CAS: 79-77-6 EC: 201-224-3 REACH: 01-2119449921-34-XXXX (E)-.BETA.-IONONE	GHS09 Wng Aquatic Chronic 2, H411		2.5 $\leq$ x % < 5

## FO 70869 – BLUE ORCHARD



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CAS: 1335-46-2 EC: 215-635-0 REACH: 01-2119471851-35-000X METHYL IONONE (MIXTURE OF ISOMERS)	GHS07, GHS09 Wng Skin Irrit. 2, H315 Skin Sens. 1B, H317 Eye Irrit. 2, H319 Aquatic Chronic 2, H411		1 <= x % < 2.5
CAS: 106-22-9 EC: 203-375-0 REACH: 01-2119453995-23-XXXX DL-CITRONELLOL	GHS07 Wng Skin Irrit. 2, H315 Skin Sens. 1B, H317 Eye Irrit. 2, H319		1 <= x % < 2.5
CAS: 33704-61-9 EC: 251-649-3 REACH: 01-2119977131-40-0000 6,7-DIHYDRO-1,1,2,3,3-PENTAMETHYL-4(5H)- INDANONE	GHS07, GHS09 Wng Skin Irrit. 2, H315 Skin Sens. 1B, H317 Eye Irrit. 2, H319 Aquatic Chronic 2, H411		1 <= x % < 2.5
INDEX: 603-241-00-5 CAS: 106-24-1 EC: 203-377-1 GERANIOL	GHS07 Wng Skin Sens. 1, H317		1 <= x % < 2.5
CAS: 93-29-8 EC: 202-236-1 REACH: 01-2120223683-59-XXXX ISOEUGENYL ACETATE	GHS07 Wng Skin Sens. 1B, H317		1 <= x % < 2.5
CAS: 16409-43-1 EC: 240-457-5 REACH: 01-2119976300-42-0000 TETRAHYDRO-4-METHYL-2-(2- METHYLPROPEN-1-YL)PYRAN	GHS07, GHS08 Wng Skin Irrit. 2, H315 Eye Irrit. 2, H319 Repr. 2, H361	[ii]	0.1 <= x % < 1
CAS: 103-95-7 EC: 203-161-7 REACH: 01-2119970582-32-XXXX 2-METHYL-3-(P- ISOPROPYLPHENYL)PROPIONALDEHYDE	GHS07, GHS08 Wng Skin Irrit. 2, H315 Skin Sens. 1B, H317 Repr. 2, H361 Aquatic Chronic 3, H412	[ii]	0.1 <= x % < 1
CAS: 128-37-0 EC: 204-881-4 REACH: 01-2119565113-46-XXX BUTYLATED HYDROXYTOLUENE	GHS09 Wng Aquatic Acute 1, H400 M Acute = 1 Aquatic Chronic 1, H410 M Chronic = 1	[i]	0.1 <= x % < 1
CAS: 123-11-5 EC: 204-602-6 REACH: 01-2119977101-43-0000 P-METHOXYBENZALDEHYDE	GHS08 Wng Repr. 2, H361 Aquatic Chronic 3, H412	[ii]	0.1 <= x % < 1
CAS: 3738-00-9 EC: 701-326-2 REACH: 01-2120094518-45-XXXX 1,5,5,9-TETRAMETHYL-13- OXATRICYCLO(8.3.0.0(4,9))TRIDECANE	GHS08 Wng Repr. 2, H361 Aquatic Chronic 3, H412	[ii]	0.1 <= x % < 1
CAS: 23696-85-7 EC: 245-833-2 REACH: Pre-registered 1-(2,6,6-TRIMETHYLCYCLOHEXA-1,3- DIENYL)-2-BUTEN-1-ONE	GHS09, GHS07 Wng Skin Sens. 1, H317 Aquatic Chronic 2, H411		0.1 <= x % < 1
CAS: 64-17-5	GHS02, GHS07	[i]	0 <= x % < 0.1

## FO 70869 – BLUE ORCHARD



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EC: 200-578-6 REACH: 01-2119457610-43-XXXX ETHYL ALCOHOL	Dgr Eye Irrit. 2, H319 Flam. Liq. 2, H225		
CAS: 57-55-6 EC: 200-338-0 REACH: 01-2119456809-23-0004 PROPYLENE GLYCOL		[i]	0 <= x % < 0.1
INDEX: 601-021-00-3 CAS: 108-88-3 EC: 203-625-9 REACH: 01-2119471310-51-XXXX TOLUENE	GHS02, GHS08, GHS07 Dgr Flam. Liq. 2, H225 Repr. 2, H361d Asp. Tox. 1, H304 STOT RE 2, H373 Skin Irrit. 2, H315 STOT SE 3, H336	[i] [ii]	0 <= x % < 0.1

## Specific concentration limits:

Identification	Specific concentration limits	ATE
CAS: 60-12-8 EC: 200-456-2 REACH: 01-2119963921-31-XXXX PHENETHYL ALCOHOL		oral: ATE = 1610 mg/kg BW
CAS: 79-77-6 EC: 201-224-3 REACH: 01-2119449921-34-XXXX (E)-.BETA.-IONONE		oral: ATE = 3940 mg/kg BW
CAS: 106-22-9 EC: 203-375-0 REACH: 01-2119453995-23-XXXX DL-CITRONELLOL		dermal: ATE = 2650 mg/kg BW oral: ATE = 3450 mg/kg BW
CAS: 33704-61-9 EC: 251-649-3 REACH: 01-2119977131-40-0000 6,7-DIHYDRO-1,1,2,3,3-PENTAMETHYL-4(5H)- INDANONE		oral: ATE = 2900 mg/kg BW
CAS: 93-29-8 EC: 202-236-1 REACH: 01-2120223683-59-XXXX ISOEUGENYL ACETATE		oral: ATE = 3450 mg/kg BW
CAS: 16409-43-1 EC: 240-457-5 REACH: 01-2119976300-42-0000 TETRAHYDRO-4-METHYL-2-(2- METHYLPROPEN-1-YL)PYRAN		oral: ATE = 4300 mg/kg BW
CAS: 103-95-7 EC: 203-161-7 REACH: 01-2119970582-32-XXXX 2-METHYL-3-(P- ISOPROPYLPHENYL)PROPIONALDEHYDE		oral: ATE = 3810 mg/kg BW
CAS: 123-11-5 EC: 204-602-6 REACH: 01-2119977101-43-0000 P-METHOXYBENZALDEHYDE		oral: ATE = 3210 mg/kg BW
CAS: 23696-85-7 EC: 245-833-2 REACH: Pre-registered		dermal: ATE = 2900 mg/kg BW

**FO 70869 – BLUE ORCHARD**



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1-(2,6,6-TRIMETHYLCYCLOHEXA-1,3-DIENYL)-2-BUTEN-1-ONE		
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**Information on ingredients :**

(Full text of H-phrases: see section 16)

[i] Substance for which maximum workplace exposure limits are available.

[ii] Carcinogenic, mutagenic or reprotoxic (CMR) substance.

**SECTION 4 : FIRST AID MEASURES**

As a general rule, in case of doubt or if symptoms persist, always call a doctor.

NEVER induce swallowing by an unconscious person.

**4.1. description of first aid measures**

**In the event of splashes or contact with eyes :**

Wash thoroughly with fresh, clean water for 15 minutes holding the eyelids open.

If there is any redness, pain or visual impairment, consult an ophthalmologist.

**In the event of splashes or contact with skin :**

Remove contaminated clothing and wash the skin thoroughly with soap and water or a recognised cleaner.

Watch out for any remaining product between skin and clothing, watches, shoes, etc.

In the event of an allergic reaction, seek medical attention.

If the contaminated area is widespread and/or there is damage to the skin, a doctor must be consulted or the patient transferred to hospital.

**In the event of swallowing :**

Do not give the patient anything orally.

In the event of swallowing, if the quantity is small (no more than one mouthful), rinse the mouth with water and consult a doctor.

Seek medical attention immediately, showing the label.

**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**

No data available.

**SECTION 5 : FIREFIGHTING MEASURES**

Non-flammable.

**5.1. Extinguishing media**

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

A fire will often produce a thick black smoke. Exposure to decomposition products may be hazardous to health.

Do not breathe in smoke.

In the event of a fire, the following may be formed :

- carbon monoxide (CO)

- carbon dioxide (CO<sub>2</sub>)

**5.3. Advice for firefighters**

No data available.

**SECTION 6 : ACCIDENTAL RELEASE MEASURES**

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

Consult the safety measures listed under headings 7 and 8.

**For non first aid worker**

Avoid any contact with the skin and eyes.

**For first aid worker**

First aid workers will be equipped with suitable personal protective equipment (See section 8).

**6.2. Environmental precautions**

Contain and control the leaks or spills with non-combustible absorbent materials such as sand, earth, vermiculite, diatomaceous earth in drums for waste disposal.

Prevent any material from entering drains or waterways.

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

## FO 70869 – BLUE ORCHARD



Clean preferably with a detergent, do not use solvents.

**6.4. Reference to other sections**

No data available.

**SECTION 7 : HANDLING AND STORAGE**

Requirements relating to storage premises apply to all facilities where the mixture is handled.

Individuals with a history of skin sensitisation should not, under any circumstance, handle this mixture.

**7.1. Precautions for safe handling**

Always wash hands after handling.

Remove and wash contaminated clothing before re-using.

**Fire prevention :**

Prevent access by unauthorised personnel.

**Recommended equipment and procedures :**

For personal protection, see section 8.

Observe precautions stated on label and also industrial safety regulations.

Avoid skin and eye contact with this mixture.

**Prohibited equipment and procedures :**

No smoking, eating or drinking in areas where the mixture is used.

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

No data available.

**Packaging**

Always keep in packaging made of an identical material to the original.

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

No data available.

**SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION****8.1. Control parameters****Occupational exposure limits :**

- European Union :

CAS	VME-mg/m <sup>3</sup> :	VME-ppm :	VLE-mg/m <sup>3</sup> :	VLE-ppm :	Notes :
108-88-3 TOLUENE	192	50	384	100	-

- UK :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
128-37-0 BUTYLATED HYDROXYTOLUENE	10 mg/m <sup>3</sup>				
64-17-5 ETHYL ALCOHOL	1000 ppm 1920 mg/m <sup>3</sup>				
57-55-6 PROPYLENE GLYCOL	10 mg/m <sup>3</sup>				
108-88-3 TOLUENE	50 ppm 191 mg/m <sup>3</sup>	100 ppm 384 mg/m <sup>3</sup>			

**8.2. Exposure controls****Personal protection measures, such as personal protective equipment**

Pictogram(s) indicating the obligation of wearing personal protective equipment (PPE) :



Use personal protective equipment that is clean and has been properly maintained.

Store personal protective equipment in a clean place, away from the work area.

## FO 70869 – BLUE ORCHARD



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Never eat, drink or smoke during use. Remove and wash contaminated clothing before re-using. Ensure that there is adequate ventilation, especially in confined areas.

**- Eye / face protection**

Avoid contact with eyes.

Use eye protectors designed to protect against liquid splashes

Before handling, wear safety goggles with protective sides accordance with standard ISO 16321.

In the event of high danger, protect the face with a face shield.

Prescription glasses are not considered as protection.

Individuals wearing contact lenses should wear prescription glasses during work where they may be exposed to irritant vapours.

Provide eyewash stations in facilities where the product is handled constantly.

**- Hand protection**

Use suitable protective gloves that are resistant to chemical agents in accordance with standard EN ISO 374-1.

Gloves must be selected according to the application and duration of use at the workstation.

Protective gloves need to be selected according to their suitability for the workstation in question : other chemical products that may be handled, necessary physical protections (cutting, pricking, heat protection), level of dexterity required.

**- Body protection**

Avoid skin contact.

Wear suitable protective clothing.

Suitable type of protective clothing :

In the event of substantial spatter, wear liquid-tight protective clothing against chemical risks (type 3) in accordance with EN14605/A1 to prevent skin contact.

In the event of a risk of splashing, wear protective clothing against chemical risks (type 6) in accordance with EN13034/A1 to prevent skin contact.

Work clothing worn by personnel shall be laundered regularly.

After contact with the product, all parts of the body that have been soiled must be washed.

**SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES****9.1. Information on basic physical and chemical properties****Physical state**

Physical state : Fluid liquid.

**Colour**

Color: LIGHT YELLOW

**Odour**

Odour threshold : Not stated.

Odour: ROSE FRUITY AMBERY

**Melting point**

Melting point/melting range : Not relevant.

**Freezing point**

Freezing point / Freezing range : Not stated.

**Boiling point or initial boiling point and boiling range**

Boiling point/boiling range : Not relevant.

**Flammability**

Combustible.

**Lower and upper explosion limit**

Explosive properties, lower explosivity limit (%) : Not stated.

Explosive properties, upper explosivity limit (%) : Not stated.

**Flash point**

Flash Point Interval : 60°C < FP <= 93°C

## FO 70869 – BLUE ORCHARD



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Method for determining the flash point:

ISO 2719 : 2016 (Pensky-Martens method in closed cup)

**Auto-ignition temperature**

Self-ignition temperature :

Not relevant.

**Decomposition temperature**

Decomposition point/decomposition range :

Not relevant.

**pH**

pH (aqueous solution) :

Not stated.

pH :

Not relevant.

**Kinematic viscosity**

Viscosity :

Not stated.

Viscosity:

v < 7 mm<sup>2</sup>/s (40°C)**Solubility**

Water solubility :

Insoluble.

Fat solubility :

Not stated.

**Partition coefficient n-octanol/water (log value)**

Partition coefficient: n-octanol/water :

Not stated.

**Vapour pressure**

Vapour pressure (50°C):

Below 110 kPa (1.10 bar).

**Density and/or relative density**

Density :

0.9939/1.0139@20°C

Method for determining the density :

OECD Guideline 109

**Relative vapour density**

Vapour density :

Not stated.

**Particle characteristics**

The mixture does not contain nanoforms.

**9.2. Other information**

Index of refraction :

1.4836/1.4936@20°C

Method of determining the refractive index :

NF ISO 280:1999 (T75-112)

% VOC :

0.0042

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

No data available.

**9.2.2. Other safety characteristics**

No data available.

**SECTION 10 : STABILITY AND REACTIVITY****10.1. Reactivity**

No data available.

**10.2. Chemical stability**

This mixture is stable under the recommended handling and storage conditions in section 7.

**10.3. Possibility of hazardous reactions**

No data available.

**10.4. Conditions to avoid**

## FO 70869 – BLUE ORCHARD



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No data available.

**10.5. Incompatible materials**

No data available.

**10.6. Hazardous decomposition products**

The thermal decomposition may release/form :

- carbon monoxide (CO)
- carbon dioxide (CO<sub>2</sub>)

**SECTION 11 : TOXICOLOGICAL INFORMATION****11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008****11.1.1. Substances****a) Acute toxicity :**

1-(2,6,6-TRIMETHYLCYCLOHEXA-1,3-DIENYL)-2-BUTEN-1-ONE (CAS: 23696-85-7)

Dermal route : LD50 = 2900 mg/kg body weight

P-METHOXYBENZALDEHYDE (CAS: 123-11-5)

Oral route : LD50 = 3210 mg/kg body weight

2-METHYL-3-(P-ISOPROPYLPHENYL)PROPIONALDEHYDE (CAS: 103-95-7)

Oral route : LD50 = 3810 mg/kg body weight

TETRAHYDRO-4-METHYL-2-(2-METHYLPROPEN-1-YL)PYRAN (CAS: 16409-43-1)

Oral route : LD50 = 4300 mg/kg body weight

ISOEUGENYL ACETATE (CAS: 93-29-8)

Oral route : LD50 = 3450 mg/kg body weight

6,7-DIHYDRO-1,1,2,3,3-PENTAMETHYL-4(5H)-INDANONE (CAS: 33704-61-9)

Oral route : LD50 = 2900 mg/kg body weight

DL-CITRONELLOL (CAS: 106-22-9)

Oral route : LD50 = 3450 mg/kg body weight

Dermal route : LD50 = 2650 mg/kg body weight

(E)-.BETA.-IONONE (CAS: 79-77-6)

Oral route : LD50 = 3940 mg/kg body weight

PHENETHYL ALCOHOL (CAS: 60-12-8)

Oral route : LD50 = 1610 mg/kg body weight

**b) Skin corrosion/skin irritation :**

No data available.

**c) Serious damage to eyes/eye irritation :**

No data available.

**d) Respiratory or skin sensitisation :**

No data available.

**e) Germ cell mutagenicity :**

No data available.

**f) Carcinogenicity :**

No data available.

**g) Reproductive toxicant :**

No data available.

**h) Specific target organ systemic toxicity - single exposure :**

No data available.

**i) Specific target organ systemic toxicity - repeated exposure :**

**FO 70869 – BLUE ORCHARD**



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No data available.

**j) Aspiration hazard :**

No data available.

**11.1.2. Mixture**

**11.1.2.1 Information on hazard classes**

**a) Acute toxicity :**

Oral route : No data available.

Dermal route : No data available.

Inhalation route (Dusts/mist) : No data available.

**b) Skin corrosion/skin irritation :**

May cause reversible damage to the skin; namely inflammation of the skin or the formation of erythema and eschar or oedema following exposure up to four hours.

**c) Serious damage to eyes/eye irritation :**

May have reversible effects on the eyes, such as eye irritation which is totally reversible by the end of observation at 21 days.

**d) Respiratory or skin sensitisation :**

May cause an allergic reaction by skin contact.

**e) Germ cell mutagenicity :**

No data available.

**f) Carcinogenicity :**

No data available.

**g) Reproductive toxicant :**

No data available.

**h) Specific target organ systemic toxicity - single exposure :**

No data available.

**i) Specific target organ systemic toxicity - repeated exposure :**

No data available.

**j) Aspiration hazard :**

No data available.

**11.1.2.2 Other information**

**Monograph(s) from the IARC (International Agency for Research on Cancer) :**

CAS 108-88-3 : IARC Group 3 : The agent is not classifiable as to its carcinogenicity to humans.

CAS 93-15-2 : IARC Group 2A : The agent is probably carcinogenic to humans.

CAS 64-17-5 : IARC Group 1 : The agent is carcinogenic to humans.

CAS 123-35-3 : IARC Group 2B : The agent is possibly carcinogenic to humans.

CAS 97-53-0 : IARC Group 3 : The agent is not classifiable as to its carcinogenicity to humans.

CAS 5989-27-5 : IARC Group 3 : The agent is not classifiable as to its carcinogenicity to humans.

CAS 5989-27-5 : IARC Group 3 : The agent is not classifiable as to its carcinogenicity to humans.

CAS 128-37-0 : IARC Group 3 : The agent is not classifiable as to its carcinogenicity to humans.

**11.2. Information on other hazards**

**Endocrine disrupting properties**

The mixture does not contain any substance evaluated as an endocrine disruptor with effects on human health.

**SECTION 12 : ECOLOGICAL INFORMATION**

Toxic to aquatic life with long lasting effects.

The product must not be allowed to run into drains or waterways.

**12.1. Toxicity**

**12.1.2. Mixtures**

No aquatic toxicity data available for the mixture.

**FO 70869 – BLUE ORCHARD**



**12.2. Persistence and degradability**

No data available.

**12.3. Bioaccumulative potential**

No data available.

**12.4. Mobility in soil**

No data available.

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

No data available.

**12.6. Endocrine disrupting properties**

The mixture does not contain any substance evaluated as an endocrine disruptor with environmental effects.

**12.7. Other adverse effects**

No data available.

**German regulations concerning the classification of hazards for water (WGK, AwSV Annex I, KBws) :**

WGK 2 : Hazardous for water.

**SECTION 13 : DISPOSAL CONSIDERATIONS**

Proper waste management of the mixture and/or its container must be determined in accordance with Directive 2008/98/EC.

**13.1. Waste treatment methods**

Do not pour into drains or waterways.

**Waste :**

Waste management is carried out without endangering human health, without harming the environment and, in particular without risk to water, air, soil, plants or animals.

Recycle or dispose of waste in compliance with current legislation, via a certified collector or company.

Do not contaminate the ground or water with waste, do not dispose of waste into the environment.

**Soiled packaging :**

Empty container completely. Keep label(s) on container.

Give to a certified disposal contractor.

**SECTION 14 : TRANSPORT INFORMATION**

Transport product in compliance with provisions of the ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport (ADR 2025 - IMDG 2024 [42-24] - ICAO/IATA 2026 [67]).

**14.1. UN number or ID number**

3082

**14.2. UN proper shipping name**

UN3082=ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthalenyl)ethanone)

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



- Classification :

9

**14.4. Packing group**

III

**14.5. Environmental hazards**

## FO 70869 – BLUE ORCHARD



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- Environmentally hazardous material :

## 14.6. Special precautions for user

ADR/RID	Class	Code	Pack gr.	Label	Ident.	LQ	Provis.	EQ	Cat.	Tunnel
	9	M6	III	9	90	5 L	274 335 375 601 650	E1	3	-
	Not subject to this regulation if Q ≤ 5 l / 5 kg (ADR 3.3.1 - DS 375)									
IMDG	Class	2°Label	Pack gr.	LQ	EMS	Provis.	EQ	Stowage Handling	Segregation	
	9	-	III	5 L	F-A, S-F	274 335 375 969	E1	Category A	Y	
	Not subject to this regulation if Q ≤ 5 l / 5 kg (IMDG 3.3.1 - 2.10.2.7)									
IATA	Class	2°Label	Pack gr.	Passager	Passager	Cargo	Cargo	note	EQ	
	9	-	III	964	450 L	964	450 L	A97 A158 A197 A215	E1	
	9	-	III	Y964	30 kg G	-	-	A97 A158 A197 A215	E1	
	Not subject to this regulation if Q ≤ 5 l / 5 kg (IATA 4.4.4)									

## FO 70869 – BLUE ORCHARD



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	- DS A197)								
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For limited quantities, see part 2.7 of the OACI/IATA and chapter 3.4 of the ADR and IMDG.

For excepted quantities, see part 2.6 of the OACI/IATA and chapter 3.5 of the ADR and IMDG.

Marine pollutant (IMDG 3.1.2.9):(1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthalenyl)ethanone)

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

No data available.

**SECTION 15 : REGULATORY INFORMATION****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****Classification and labelling information included in section 2:**

The following regulations have been used:

- EU Regulation No. 1272/2008 amended by EU Regulation No. 2023/707.

- EU Regulation No. 1272/2008 amended by EU Regulation No. 2025/1222. (ATP 23)

**Container information:**

No data available.

**Particular provisions :**

No data available.

**Restrictions applied under Title VIII of Regulation (EC) No. 1907/2006 (REACH):**

The mixture does not contain any substance restricted under Annex XVII of Regulation (EC) No. 1907/2006 (REACH): <https://echa.europa.eu/substances-restricted-under-reach>.

**Authorisations agreed under Title VII of Regulation (EC) No.1907/2006 (REACH):**

The mixture does not contain any substance subject to authorisation according to Annex XIV of REACH Regulation (EC) No 1907/2006: <https://echa.europa.eu/fi/authorisation-list>.

**Ozone-depleting substances (Regulation (EC) No 2024/590).**

The mixture does not contain any substance posing a risk to the ozone layer.

**Persistent organic pollutants (POP) (Regulation (EU) 2019/1021):**

The mixture does not contain a persistent organic pollutant.

**PIC Regulation (EU) No 649/2012 concerning the export and import of hazardous chemicals (Rotterdam Convention):**

The mixture is not subject to the Prior Informed Consent (PIC) procedure.

**Explosives precursors :**

The mixture does not contain any substance subject to Regulation (EU) 2019/1148 on the marketing and use of explosives precursors.

**German regulations concerning the classification of hazards for water (WGK, AwSV Annex I, KBws) :**

WGK 2 : Hazardous for water.

**Swiss ordinance on the incentive tax on volatile organic compounds :**

99-87-6 p-cymene

111-27-3 hexan-1-ol

64-17-5 ethanol, other than distilled liquids for drinking or consumption (Art. 31 Alcohol Act)

5989-54-8 l-limonene ((S)-p-mentha-1,8-dien)

5989-27-5 d-limonene ((R)-p-mentha-1,8-dien)

100-51-6 benzyl alcohol (phenylmethanol)

5989-27-5 d-limonene ((R)-p-mentha-1,8-dien)

99-87-6 p-cymene

108-88-3 toluene

**15.2. Chemical safety assessment**

No data available.

**SECTION 16 : OTHER INFORMATION****Wording of the phrases mentioned in section 3 :**

H225 Highly flammable liquid and vapour.

H302 Harmful if swallowed.

## FO 70869 – BLUE ORCHARD



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H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H361	Suspected of damaging fertility or the unborn child .
H361d	Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure .
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

**Abbreviations and acronyms :**

LD50 : The dose of a test substance resulting in 50% lethality in a given time period.

LQ : Limited Quantity

EQ : Excepted Quantity

EmS : Emergency Schedule

E : Packing Instruction

REACH : Registration, Evaluation, Authorization and Restriction of Chemical Substances.

ATE : Acute Toxicity Estimate

BW : Body Weight

CMR: Carcinogenic, mutagenic or reprotoxic.

STEL : Short-term exposure limit

TWA : Time-Weighted Average

VLE : Threshold Limit Value (exposure)

VME : Average Exposure Value.

ADR : Agreement concerning the international carriage of dangerous goods by road.

GHS07 : Exclamation mark

GHS09 : Environment

IATA : International Air Transport Association.

IMDG : International Maritime Dangerous Goods.

ICAO : International Civil Aviation Organisation

PBT: Persistent, bioaccumulable and toxic.

PIC: Prior Informed Consent.

POP: Persistent Organic Pollutant.

RID : Regulations concerning the International carriage of Dangerous goods by rail.

SVHC : Substances of very high concern.

WGK : Water Hazard Class.

The information contained in this safety data sheet is based on our current knowledge at the time of publication and is provided in good faith. It does not constitute any guarantee of specific product properties nor establish any contractual relationship. The user remains solely responsible for safe and compliant use of the product in accordance with current regulations.