

# SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by  
UK REACH Regulations SI 2019/758



## CASHMERAN VELVET TOCO

Version	Revision Date:	SDS Number:	Date of last issue: 26.01.2022
2.3	10.03.2023	300000134847	Date of first issue: 10.06.2021

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

#### 1.1 Product identifier

Trade name : CASHMERAN VELVET TOCO  
Product code : 00036831  
Sales Number : 00036831

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

Use of the Sub-  
stance/Mixture : Ingredient used in Flavour and/or Fragrance preparations

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

Company : IFF Benicarló, S.L.  
Avda. Felipe Klein 2  
12580 BENICARLÓ  
  
Telephone : +34964470212  
Telefax : +34964473411  
  
E-mail address of person  
responsible for the SDS : sds@iff.com

#### 1.4 Emergency telephone number

+34 964 470 212

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### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

**Classification (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK  
SI 2019/720, and UK SI 2020/1567)**

Skin irritation, Category 2	H315: Causes skin irritation.
Eye irritation, Category 2	H319: Causes serious eye irritation.
Skin sensitisation, Category 1	H317: May cause an allergic skin reaction.
Long-term (chronic) aquatic hazard, Category 2	H411: Toxic to aquatic life with long lasting effects.

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### 2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

Hazard pictograms :



Signal word : Warning

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 mist or vapours.  
P264 Wash skin thoroughly after handling.  
P280 Wear protective gloves/ eye protection/ face protection.  
**Response:**  
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.  
P337 + P313 If eye irritation persists: Get medical advice/ attention.  
P391 Collect spillage.

Hazardous components which must be listed on the label:

33704-61-9	Dihydro pentamethylindanone
68155-66-8, 54464-57-2, 68155-67-9, 54464-59-4	Tetramethyl Acetyloctahydronaphthalenes

### 2.3 Other hazards

None reasonably foreseeable.

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

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## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

Chemical nature : Ingredient used in Flavour and/or Fragrance preparations

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### Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
1,2,3,5,6,7-hexahydro-1,1,2,3,3-pentamethyl-4H-inden-4-one	33704-61-9 251-649-3	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1B; H317 Aquatic Chronic 2; H411	>= 70 - < 90
1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	68155-66-8 268-978-3	Skin Irrit. 2; H315 Skin Sens. 1B; H317 Aquatic Chronic 2; H411	>= 10 - < 20

For explanation of abbreviations see section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

- General advice : Take Hazard and Precautionary phrases (section 2) into account.
- If inhaled : Remove from exposure site to fresh air and keep at rest. If victim is unconscious, remove foreign bodies from the mouth. If victim has stopped breathing, give artificial respiration. Obtain medical advice.
- In case of skin contact : Remove contaminated clothes. Wash thoroughly with water (and soap). Contact physician if symptoms persist.
- In case of eye contact : Flush immediately with water for at least 15 minutes. Contact physician if symptoms persist.
- If swallowed : Rinse mouth with water and obtain medical advice.

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

- Risks : Causes skin irritation.  
May cause an allergic skin reaction.  
Causes serious eye irritation.

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

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## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media : Carbondioxide, dry chemical, foam.

Unsuitable extinguishing media : Do not use a direct waterjet on burning material.

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

Specific hazards during fire-fighting : Water may be ineffective.

### 5.3 Advice for firefighters

Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.

Further information : Standard procedure for chemical fires.

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## SECTION 6: Accidental release measures

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

Personal precautions : Avoid inhalation and contact with skin and eyes. A self-contained breathing apparatus is recommended in case of a major spill.  
Prevent spreading over a wide area (e.g. by containment or oil barriers).

### 6.2 Environmental precautions

Environmental precautions : Keep away from drains, surface- and groundwater and soil.

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

Methods for cleaning up : Clean up spillage promptly. Remove ignition sources. Provide adequate ventilation. Avoid excessive inhalation of vapours. Gross spillages should be contained by use of sand or inert powder and disposed of according to the local regulations.

### 6.4 Reference to other sections

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Advice on safe handling : Avoid excessive inhalation of concentrated vapors. Follow good manufacturing practices for housekeeping and personal hygiene. Wash any exposed skin immediately after any chem-

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ical contact, before breaks and meals, and at the end of each work period. Contaminated clothing and shoes should be thoroughly cleaned before re-use.

If appropriate, procedures used during the handling of this material should also be used when cleaning equipment or removing residual chemicals from tanks or other containers, especially when steam or hot water is used, as this may increase vapor concentrations in the workplace air. Where chemicals are openly handled, access should be restricted to properly trained employees.

Keep all heated processes at the lowest necessary temperature in order to minimize emissions of volatile chemicals into the air.

Advice on protection against fire and explosion : Keep away from ignition sources and naked flame.

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

Requirements for storage areas and containers : Store in a cool, dry, ventilated area away from heat sources. Keep containers upright and tightly closed when not in use.

### 7.3 Specific end use(s)

Specific use(s) : No information available.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

Contains no substances with occupational exposure limit values.

#### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	Workers	Skin contact	Long-term local effects	0,1011 mg/cm <sup>2</sup>
	Exposure time: 8 h			
	Workers	Skin contact	Long-term systemic effects	1,73 mg/kg bw/day
Exposure time: 8 h				
	Workers	Inhalation	Long-term systemic effects	1,76 mg/m <sup>3</sup>
Exposure time: 8 h				

### 8.2 Exposure controls

#### Engineering measures

Where appropriate, use closed systems to transfer and process this material.

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If appropriate, isolate mixing rooms and other areas where this material is used or openly handled. Maintain these areas under negative air pressure relative to the rest of the plant.

### Personal protective equipment

- Eye protection : Use tight-fitting goggles, face shield or safety glasses with side shields if eye contact might occur. Equipment should conform to EN 166
- Hand protection  
Material : Chemical resistant gloves made of butyl rubber or nitrile rubber category III according to EN 374.
- Remarks : Avoid skin contact. Use chemically resistant gloves. The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it. Be aware that in daily use the durability of a chemical resistant protective glove can be notably shorter than the break through time measured according to EN 374, due to the numerous outside influences (e.g. temperature). Please observe the instructions regarding permeability and break-through time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other.
- Skin and body protection : Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.
- Respiratory protection : Use local exhaust ventilation around open tanks and other open sources of potential exposures in order to avoid excessive inhalation, including places where this material is openly weighed or measured. In addition, use general dilution ventilation of the work area to eliminate or reduce possible worker exposures.  
No respiratory protection is required during normal operations in a workplace where engineering controls such as adequate ventilation, etc. are sufficient.
- If engineering controls and safe work practices are not sufficient, an approved, properly fitted respirator with organic vapor cartridges or canisters and particulate filters should be used:
- a) while engineering controls and appropriate safe work practices and/or procedures are being implemented; or
  - b) during short term maintenance procedures when engineering controls are not in normal operation or are not sufficient; or
  - c) if normal operational workplace vapor concentration in the

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air is increased due to heat ;  
d)during emergencies; or  
e)if engineering controls and operational practices are not sufficient to reduce airborne concentrations below an established occupational exposure limit.

Protective measures : To the extent deemed appropriate, implement pre-placement and regularly scheduled ascertainment of symptoms and spirometry testing of lung function for workers who are regularly exposed to this material.  
To the extent deemed appropriate, use an experienced air sampling expert to identify and measure volatile chemicals that could be present in the workplace air to determine potential exposures and to ensure the continuing effectiveness of engineering controls and operational practices to minimize exposure.

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## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Appearance	:	liquid
Colour	:	pale yellow to yellow
Odour	:	conforms to standard
Odour Threshold	:	not determined
pH	:	not determined
Melting point	:	not determined
Boiling point	:	not determined
Flash point	:	122 °C Method: closed cup
Evaporation rate	:	not determined
Flammability (solid, gas)	:	not determined
Upper explosion limit / Upper flammability limit	:	not determined
Lower explosion limit / Lower flammability limit	:	not determined
Vapour pressure	:	< 0,02 hPa Calculated
Relative vapour density	:	not determined
Relative density	:	0,9570 - 0,9670
Density	:	not determined
Water solubility	:	not determined
Solubility in other solvents	:	not determined
Partition coefficient: n-	:	not determined

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octanol/water	
Auto-ignition temperature	: not determined
Decomposition temperature	: not determined
Viscosity, dynamic	: not determined
Viscosity, kinematic	: not determined
Oxidizing properties	: not determined

### 9.2 Other information

No data available

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No hazards to be specially mentioned.

### 10.2 Chemical stability

Stable under normal conditions.

### 10.3 Possibility of hazardous reactions

Hazardous reactions	: Presents no significant reactivity hazard, by itself or in contact with water.
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### 10.4 Conditions to avoid

Conditions to avoid	: Direct sources of heat.
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### 10.5 Incompatible materials

### 10.6 Hazardous decomposition products

Carbon monoxide and unidentified organic compounds may be formed during combustion.

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## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

Not classified based on available information.

#### Skin corrosion/irritation

Causes skin irritation.

#### Components:

#### 1,2,3,5,6,7-hexahydro-1,1,2,3,3-pentamethyl-4H-inden-4-one:

Species	: Human
Exposure time	: 0,25 h
Assessment	: Causes skin irritation.
Method	: EPISKIN Human Skin Model Test
Result	: irritating
GLP	: yes
Test substance	: (undiluted)
Remarks	: REACH data



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Species : Human  
Method : OECD Test Guideline 431  
Result : No skin irritation  
GLP : yes  
Test substance : (undiluted)  
Remarks : REACH data

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

Species : reconstructed human epidermis (RhE)  
Assessment : Causes skin irritation.  
Method : OECD Test Guideline 439  
Result : irritating  
GLP : yes  
Test substance : (undiluted)  
Remarks : REACH data

### **Serious eye damage/eye irritation**

Causes serious eye irritation.

#### **Components:**

### **1,2,3,5,6,7-hexahydro-1,1,2,3,3-pentamethyl-4H-inden-4-one:**

Species : Chicken eye  
Assessment : Causes serious eye irritation.  
Method : OECD 438  
Result : Eye irritation  
GLP : yes  
Remarks : REACH data

### **Respiratory or skin sensitisation**

#### **Skin sensitisation**

May cause an allergic skin reaction.

#### **Respiratory sensitisation**

Not classified based on available information.

#### **Components:**

### **1,2,3,5,6,7-hexahydro-1,1,2,3,3-pentamethyl-4H-inden-4-one:**

Test Type : LLNA  
Species : Mouse  
Method : OECD 429  
Result : The product is a skin sensitizer, sub-category 1B.  
Remarks : REACH data

Test Type : repeated insult patch test  
Species : Humans  
Result : Does not cause skin sensitisation.  
Test substance : 10.% in ethanol/DEP (75:25)  
Remarks : REACH data

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Species : Not tested on animals  
Result : Does not cause respiratory sensitisation.  
Remarks : REACH data

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

Test Type : Local lymph node assay (LLNA)  
Species : Mouse  
Assessment : The product is a skin sensitiser, sub-category 1B.  
Method : OECD Test Guideline 429  
Result : Causes sensitisation.  
GLP : yes

Remarks : REACH data

### **Germ cell mutagenicity**

Not classified based on available information.

### **Components:**

#### **1,2,3,5,6,7-hexahydro-1,1,2,3,3-pentamethyl-4H-inden-4-one:**

Genotoxicity in vitro : Test Type: Ames test  
Test system: Salmonella typhimurium  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative  
GLP: yes  
Remarks: REACH data

Test Type: In vitro mammalian cell gene mutation test  
Test system: mouse lymphoma cells  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 476  
Result: negative  
GLP: yes  
Remarks: REACH data

Test Type: in vitro mammalian cell micronucleus  
Test system: Human lymphocytes  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 473  
Result: negative  
GLP: No information available.  
Remarks: REACH data

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

Genotoxicity in vitro : Test Type: Microbial mutagenesis assay (Ames test)  
Test system: Salmonella typhimurium  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative  
GLP: yes

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Remarks: REACH data

Test Type: Microbial mutagenesis assay (Ames test)  
Test system: Salmonella typhimurium  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative  
GLP: yes  
Remarks: REACH data

Test Type: Chromosome aberration test in vitro  
Test system: Human lymphocytes  
Metabolic activation: with and without metabolic activation  
Method: OECD 473  
Result: negative  
GLP: yes  
Remarks: REACH data

Test Type: In vitro mammalian cell gene mutation test  
Test system: mouse lymphoma cells  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 476  
Result: negative  
GLP: yes  
Remarks: REACH data

Genotoxicity in vivo : Test Type: In vivo micronucleus test  
Species: Mouse (male and female)  
Application Route: Dermal  
Method: OECD Test Guideline 474  
Result: negative  
GLP: yes

Test Type: In vivo micronucleus test  
Species: Rat (male and female)  
Application Route: Dermal  
Method: OECD Test Guideline 474  
Result: negative  
GLP: yes

### Carcinogenicity

Not classified based on available information.

### Components:

#### 1,2,3,5,6,7-hexahydro-1,1,2,3,3-pentamethyl-4H-inden-4-one:

Species : Rat  
Method : see user defined free text  
Remarks : not required  
REACH data

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### Reproductive toxicity

Not classified based on available information.

### Components:

#### **1,2,3,5,6,7-hexahydro-1,1,2,3,3-pentamethyl-4H-inden-4-one:**

Effects on fertility : Test Type: reproductive and developmental toxicity study  
Species: Rat, male and female  
Strain: wistar  
Application Route: Ingestion  
General Toxicity - Parent: NOAEL: 150 mg/kg food  
Fertility: NOAEL: 1,875 mg/kg food  
Early Embryonic Development: NOAEL: 1,875 mg/kg food  
Symptoms: No effects on fertility, No effects on foetal development  
Target Organs: Kidney, Liver  
Method: OECD Test Guideline 421  
GLP: yes  
Remarks: REACH data

Effects on foetal development : Test Type: reproductive and developmental toxicity study  
Species: Rat, female  
Strain: wistar  
Application Route: Ingestion  
Developmental Toxicity: NOAEL: 121,83 mg/kg body weight  
Symptoms: No effects on newborn  
Target Organs: Kidney, Liver  
Method: OECD Test Guideline 421  
Result: No effects on fertility and early embryonic development were detected.  
GLP: yes  
Remarks: REACH data

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

Effects on fertility : Test Type: reproductive and developmental toxicity study  
Species: Rat, male and female  
Strain: wistar  
Application Route: Oral  
General Toxicity - Parent: NOAEL: >= 300 mg/kg body weight  
Fertility: NOAEL: >= 300 mg/kg body weight  
Method: OECD Test Guideline 443  
GLP: yes  
Remarks: REACH data

Test Type: reproductive and developmental toxicity study  
Species: Rat, male and female  
Strain: wistar  
Application Route: Oral  
General Toxicity - Parent: NOAEL: 120 mg/kg body weight  
Fertility: NOAEL: >= 500 mg/kg body weight  
Target Organs: Kidney, Liver, spleen  
Method: OECD Test Guideline 421  
GLP: yes

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Effects on foetal development : Test Type: Pre-natal  
Species: Rat, female  
Application Route: Oral  
Duration of Single Treatment: 21 d  
Frequency of Treatment: 1 daily  
General Toxicity Maternal: NOAEL: 240 mg/kg body weight  
Developmental Toxicity: NOAEL: >= 480 mg/kg body weight  
Method: OECD Test Guideline 414  
GLP: yes  
Remarks: REACH data

Test Type: Pre-natal  
Species: Rabbit, female  
Application Route: Oral  
Duration of Single Treatment: 23 d  
Frequency of Treatment: 1 daily  
General Toxicity Maternal: NOAEL: 200 mg/kg body weight  
Developmental Toxicity: NOAEL: >= 500 mg/kg body weight  
Method: OECD Test Guideline 414  
GLP: yes  
Remarks: REACH data

### STOT - single exposure

Not classified based on available information.

### STOT - repeated exposure

Not classified based on available information.

### Repeated dose toxicity

#### Components:

#### **1,2,3,5,6,7-hexahydro-1,1,2,3,3-pentamethyl-4H-inden-4-one:**

Species : Rat, male and female  
NOAEL : 10 mg/kg  
Application Route : Oral  
Exposure time : 90-day  
Number of exposures : 1x /day  
Method : OECD Test Guideline 408  
GLP : yes  
Target Organs : Kidney  
Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.  
Remarks : REACH data

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

Species : Rat, male and female  
NOAEL : 150 mg/kg  
Application Route : Oral  
Exposure time : 28-day

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Number of exposures : 1x /day  
Method : OECD Test Guideline 407  
GLP : yes  
Remarks : REACH data

Species : Rat, male and female  
NOAEL : 120 mg/kg  
Application Route : Oral  
Exposure time : 90-day  
Number of exposures : 1x /day  
Method : OECD Test Guideline 408  
GLP : yes  
Target Organs : spleen, Liver, Kidney  
Remarks : REACH data

Species : Rat, male and female  
NOAEL : 250 mg/kg  
Application Route : Dermal  
Exposure time : 90-day  
Method : OECD Test Guideline 411  
GLP : yes  
Target Organs : Skin, Liver  
Remarks : REACH data

Species : Mouse, male and female  
NOAEL : 500 mg/kg  
Application Route : Dermal  
Exposure time : 90-day  
Method : OECD Test Guideline 411  
GLP : yes  
Target Organs : Skin, Liver  
Remarks : REACH data

### Aspiration toxicity

Not classified based on available information.

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## SECTION 12: Ecological information

### 12.1 Toxicity

#### Components:

##### **1,2,3,5,6,7-hexahydro-1,1,2,3,3-pentamethyl-4H-inden-4-one:**

Toxicity to fish : LC50 (Oryzias latipes (Japanese medaka)): 1,7 mg/l  
Exposure time: 96 h  
Test Type: semi-static test  
Analytical monitoring: yes  
Method: OECD Test Guideline 203  
GLP: yes  
Remarks: REACH data

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- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 1,5 mg/l  
Exposure time: 48 h  
Test Type: static test  
Analytical monitoring: yes  
Method: OECD Test Guideline 202  
GLP: yes  
Remarks: REACH data
- Toxicity to algae/aquatic plants : EC50 (Desmodesmus subspicatus (green algae)): 10 mg/l  
Exposure time: 72 h  
Test Type: static test  
Analytical monitoring: yes  
Method: OECD Test Guideline 201  
GLP: yes  
Remarks: REACH data
- EC10 (Desmodesmus subspicatus (green algae)): 6 mg/l  
Exposure time: 72 h  
Test Type: static test  
Analytical monitoring: yes  
Method: OECD Test Guideline 201  
GLP: yes  
Remarks: REACH data
- Toxicity to microorganisms : EC50 (activated sludge): > 1,000 mg/l  
Exposure time: 3 h  
Test Type: static test  
Analytical monitoring: no  
Method: OECD Test Guideline 209  
GLP: yes  
Remarks: REACH data
- Toxicity to fish (Chronic toxicity) : NOEC: 0,17 mg/l  
Test Type: see user defined free text  
Method: see user defined free text  
Remarks: The value is calculated  
REACH data

### Ecotoxicology Assessment

Chronic aquatic toxicity : Toxic to aquatic life with long lasting effects.

## 12.2 Persistence and degradability

### Components:

#### **1,2,3,5,6,7-hexahydro-1,1,2,3,3-pentamethyl-4H-inden-4-one:**

Biodegradability : Test Type: aerobic  
Inoculum: activated sludge  
Concentration: 100 mg/l  
Result: Not readily biodegradable.  
Biodegradation: 0 %  
Related to: Biochemical oxygen demand

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Exposure time: 28 d  
Method: OECD Test Guideline 301C  
GLP: yes  
Remarks: REACH data

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

Biodegradability : Test Type: aerobic  
Inoculum: activated sludge, non-adapted  
Concentration: 18,8 mg/l  
Result: Readily biodegradable.  
Biodegradation: 96,3 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301F  
GLP: yes  
Remarks: REACH data

## 12.3 Bioaccumulative potential

### Components:

#### **1,2,3,5,6,7-hexahydro-1,1,2,3,3-pentamethyl-4H-inden-4-one:**

Bioaccumulation : Species: Cyprinus carpio (Carp)  
Exposure time: 60 d  
Bioconcentration factor (BCF): 157  
Method: OECD Test Guideline 305  
GLP: yes  
Remarks: REACH data

Partition coefficient: n-  
octanol/water : log Pow: 4,2 (20 °C)  
Method: OECD 117  
GLP: yes  
Remarks: REACH data

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

Bioaccumulation : Species: Lepomis macrochirus (Bluegill sunfish)  
Exposure time: 21 d  
Bioconcentration factor (BCF): 391  
Method: OECD Test Guideline 305  
GLP: yes  
Remarks: REACH data

## 12.4 Mobility in soil

### Product:

Mobility : Remarks: No data available

### Components:

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

Distribution among environ- : Adsorption/Soil



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mental compartments                      Koc: 12598, log Koc: 4,1

### 12.5 Results of PBT and vPvB assessment

**Product:**

Assessment                                      : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

### 12.6 Other adverse effects

**Product:**

Endocrine disrupting potential                      : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Additional ecological information                      : There is no data available for this product.

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## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product    : Dispose of according to local regulations. Avoid disposing into drainage systems and into the environment.

Contaminated packaging                              : Empty containers should be taken to an approved waste handling site for recycling or disposal.

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## SECTION 14: Transport information

### 14.1 UN number

**ADR**    : UN 3082

**IMDG**     : UN 3082

**IATA**    : UN 3082

### 14.2 UN proper shipping name

**ADR**    : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (DIHYDRO PENTAMETHYLINDANONE)

**IMDG**     : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (DIHYDRO PENTAMETHYLINDANONE)

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**IATA** : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,  
N.O.S.  
(DIHYDRO PENTAMETHYLINDANONE)

### 14.3 Transport hazard class(es)

**ADR** : 9  
**IMDG** : 9  
**IATA** : 9

### 14.4 Packing group

**ADR**  
Packing group : III  
Classification Code : M6  
Hazard Identification Number : 90  
Labels : 9  
Tunnel restriction code : (-)

**IMDG**  
Packing group : III  
Labels : 9  
EmS Code : F-A, S-F

**IATA (Cargo)**  
Packing instruction (cargo aircraft) : 964  
Packing instruction (LQ) : Y964  
Packing group : III  
Labels : Miscellaneous Dangerous Goods

**IATA\_P (Passenger)**  
Packing instruction (passenger aircraft) : 964  
Packing instruction (LQ) : Y964  
Packing group : III  
Labels : Miscellaneous Dangerous Goods

### 14.5 Environmental hazards

**ADR**  
Environmentally hazardous : yes

**IMDG**  
Marine pollutant : yes (DIHYDRO PENTAMETHYLINDANONE)

**IATA (Passenger)**  
Environmentally hazardous : yes

**IATA (Cargo)**  
Environmentally hazardous : yes

### 14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data

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Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

### 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable for product as supplied.

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## SECTION 15: Regulatory information

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

Relevant EU provisions transposed through retained EU law

UK REACH Candidate list of substances of very high concern (SVHC) for Authorisation : Not applicable

The Persistent Organic Pollutants Regulations (retained Regulation (EU) 2019/1021 as amended for Great Britain) : Not applicable

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Not applicable

Regulation (EU) 2019/1148 on the marketing and use of explosives precursors : Not applicable

UK REACH List of substances subject to authorisation (Annex XIV) : Not applicable

#### Other regulations:

### 15.2 Chemical safety assessment

A Chemical Safety Assessment is not required for this substance.

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## SECTION 16: Other information

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

### Full text of other abbreviations

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration

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associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

### Further information

Other information : The information in this safety data sheet is based on the properties of the material known to IFF at the time the data sheet was issued. The safety data sheet is intended to provide information for a health and safety assessment of the material and the circumstances under which it is packaged, stored or applied in the workplace. For such a safety assessment International Flavors & Fragrances holds no responsibility. This document is not intended for quality assurance purposes.

### Classification of the mixture:

Skin Irrit. 2	H315
Eye Irrit. 2	H319
Skin Sens. 1	H317
Aquatic Chronic 2	H411

### Classification procedure:

Calculation method
Calculation method
Calculation method
Calculation method

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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