according to Regulation (EC) No. 1907/2006

# **Cobalt Blue 6219146**

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

1.1 Product identifier

Trade name : Cobalt Blue 6219146

Sales Number : 6219146

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

Use of the Sub- : Fragrance for consumer product

stance/Mixture

1.3 Details of the supplier of the safety data sheet

Company : Buff City Soap LLC

5294 Belt Line Rd Suite 100

Dallas, TX 75254

Telephone : +18444687627

E-mail address of person

responsible for the SDS

Support@buffcitysoap.com

### 1.4 Emergency telephone number

+18333360131

# **SECTION 2: Hazards identification**

# 2.1 Classification of the substance or mixture

## Classification (REGULATION (EC) No 1272/2008)

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, Cat-

H412: Harmful to aquatic life with long lasting effects.

egory 3

# 2.2 Label elements

#### Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms

Signal word : Warning

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Hazard statements : H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H412 Harmful 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.

Disposal:

P501 Dispose of contents/ container to an approved waste

disposal plant.

#### Hazardous components which must be listed on the label:

68155-66-8, Tetramethyl Acetyloctahydronaphthalenes

54464-57-2, 68155-67-9,

54464-59-4

67634-15-5, ETHYL 2,2-DIMETHYLHYDROCINNAMAL

67634-14-4

476332-65-7 Heptamethyl Decahydroindenofuran

470-82-6 EUCALYPTOL 10339-55-6 Ethyl Linalool

78-70-6 linalool 79-78-7 ALLYL AL

79-78-7 ALLYL ALPHA-IONONE 127-51-5 Alpha-Isomethyl Ionone

253454-23-8 TRIMETHYL-PROPYLCYCLOHEXANEPROPANOL

53243-59-7, (Z) - 3 - methyl - 5 - phenylpent - 2 - enenitrile

53243-60-0, 93893-89-1

## 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.

Ecological information: 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.

Toxicological information: 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.

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# **SECTION 3: Composition/information on ingredients**

### 3.2 Mixtures

Components

Chemical name	CAS-No. EC-No.	Classification	Concentration (% w/w)
	Index-No. Registration number		
cis-2-tert-butylcyclohexyl acetate	88-41-5 243-718-1 01-2119970713-33	Aquatic Chronic 2; H411	>= 2,5 - < 10
2,6-dimethyloct-7-en-2-ol	18479-58-8 242-362-4 01-2119457274-37	Eye Irrit. 2; H319 Skin Irrit. 2; H315 STOT SE 3; H336	>= 1 - < 10
1-(1,2,3,4,5,6,7,8-Octahydro- 2,3,8,8-tetramethyl-2- naphthyl)ethan-1-one	68155-66-8 915-730-3 01-2119489989-04	Skin Irrit. 2; H315 Skin Sens. 1B; H317 Aquatic Chronic 2; H411	>= 1 - < 2,5
octahydro-2H-1-benzopyran-2- one	4430-31-3 224-623-4	Eye Dam. 1; H318	>= 1 - < 3
(2E)-2-ethyl-4-(2,2,3- trimethylcyclopent-3-en-1-yl)but-2- en-1-ol	28219-61-6 701-122-3 01-2119529224-45	Eye Irrit. 2; H319 Aquatic Chronic 2; H411 Skin Irrit. 2; H315	>= 1 - < 2,5
		M-Factor (Acute aquatic toxicity): 1	
1-[(2-tert-butylcyclohexyl)oxy]butan-2-ol	139504-68-0 412-300-2 603-154-00-2 01-0000015959-52	Aquatic Chronic 2; H411 Eye Irrit. 2; H319	>= 1 - < 2,5
tetrahydro-2-isobutyl-4- methylpyran-4-ol, mixed isomers (cis and trans)	63500-71-0 405-040-6 603-101-00-3 01-0000015458-64, 01-2119455547-30	Eye Irrit. 2; H319	>= 1 - < 10
Reaction mass of 3-(o- ethylphenyl)-2,2- dimethylpropionaldehyde and 3- (pethylphenyl)-2,2- dimethylpropionaldehyde	67634-15-5 916-329-6 01-2120758796-34	Skin Irrit. 2; H315 Skin Sens. 1B; H317 Aquatic Acute 1; H400 Aquatic Chronic 2; H411	>= 0,25 - < 1
decahydro heptamethyl indenofuran	476332-65-7 449-360-4 01-0000018977-51	Skin Sens. 1B; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 0,25 - < 1
		M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 1	

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cineole	470-82-6	Flam. Liq. 3; H226	>= 0,1 - < 1
	207-431-5	Skin Sens. 1B; H317	
	01-2119967772-24	Eye Irrit. 2; H319	
3,7-dimethylnona-1,6-dien-3-ol	10339-55-6	Skin Irrit. 2; H315	>= 0,1 - < 1
	233-732-6	Eye Irrit. 2; H319	
	01-2119969272-32	Skin Sens. 1B; H317	
allyl (cyclohexyloxy)acetate	68901-15-5	Acute Tox. 4; H302	>= 0,25 - < 1
	272-657-3	Aquatic Acute 1;	
	01-2120770514-54	H400	
		Aquatic Chronic 1;	
		H410	
linalool	78-70-6	Skin Irrit. 2; H315	>= 0,1 - < 1
	201-134-4	Eye Irrit. 2; H319	
	603-235-00-2	Skin Sens. 1B; H317	
	01-2119474016-42	, ,	
2,6-di-tert-butyl-p-cresol	128-37-0	Aquatic Chronic 1;	>= 0,25 - < 1
	204-881-4	H410	
	01-2119565113-46,	Aquatic Acute 1;	
	01-2119555270-46	H400	
1-(2,6,6-trimethyl-2-cyclohexen-1-	79-78-7	Skin Sens. 1B; H317	>= 0,25 - < 1
yl)hepta-1,6-dien-3-one	201-225-9	Aquatic Chronic 2;	
		H411	
allyl heptanoate	142-19-8	Acute Tox. 3; H301	>= 0,1 - < 0,25
•	205-527-1	Acute Tox. 3; H311	
		Aquatic Chronic 3;	
		H412	
		Aquatic Acute 1;	
		H400	
		M-Factor (Acute	
		aquatic toxicity): 1	
(+/-) trans-3,3-dimethyl-5-(2,2,3-	107898-54-4	Skin Irrit. 2; H315	>= 0,1 - < 0,25
trimethyl-cyclopent-3-en-1-yl)pent-	411-580-3	Aquatic Acute 1;	
4-en-2-ol	603-150-00-0	H400	
	01-0000015895-58,	Aquatic Chronic 1;	
	01-2119956812-31,	H410	
	01-0000000316-81		
		M-Factor (Acute	
		aquatic toxicity): 1	
RM of (3E)-3-methyl-4-(2,6,6-	127-51-5	Aquatic Chronic 2;	>= 0,1 - < 0,25
trimethylcyclohex-2-en-1-yl)but-3-	204-846-3	H411	
en-2-one & (1E)-1-(2,6,6-		Skin Sens. 1B; H317	
trimethylcyclohex-2-en-1-yl)pent-			
1-en-3-one		M-Factor (Acute	
		aquatic toxicity): 1	
rel-1-[(1R,6S)-2,2,6-	253454-23-8	Skin Sens. 1B; H317	>= 0,1 - < 0,25
trimethylcyclohexyl]hexan-3-ol	814-113-5	Aquatic Acute 1;	
• • • • • • • • • • • • • • • • • • • •	01-2120766836-38,	H400	
	01-2120768938-30	Aquatic Chronic 1;	
		H410	
(Z) - 3 - methyl - 5 - phenylpent - 2	53243-59-7	Acute Tox. 4; H302	>= 0,1 - < 0,25
- enenitrile	258-447-4	Skin Sens. 1A; H317	, , , , , ,
	01-2120743785-44-	Aquatic Chronic 3;	I

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H412

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 ac-

count.

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. Ob-

tain medical advice.

In case of skin contact Remove contaminated clothes. Wash thoroughly with water

(and soap). Contact physician if symptoms persist.

In case of eve 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 May cause an allergic skin reaction.

Causes serious eye irritation.

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

# **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- : Water may be ineffective.

fighting

#### 5.3 Advice for firefighters

Special protective equipment:

for firefighters

Wear self-contained breathing apparatus for firefighting if nec-

essary.

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

Avoid inhalation and contact with skin and eyes. A self-Personal precautions

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

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

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

Clean up spillage promptly. Remove ignition sources. Provide Methods for cleaning up

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

# **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 chemical 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)

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Specific use(s) : No information available.

# **SECTION 8: Exposure controls/personal protection**

# 8.1 Control parameters

# 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/cm2
Remarks:	Exposure time: 8 h			
	Workers	Skin contact	Long-term systemic effects	1,73 mg/kg bw/day
Remarks:	Exposure time: 8 h			
	Workers	Inhalation	Long-term systemic effects	1,76 mg/m3
Remarks:	Exposure time:	8 h		
(2E)-2-ethyl-4-(2,2,3- trimethylcyclopent-3- en-1-yl)but-2-en-1-ol	Workers	Inhalation	Long-term systemic effects	21 mg/m3
Remarks:	REACH data			
	Workers	Dermal	Long-term systemic effects	6 mg/kg bw/day
Remarks:	REACH data			
	General popu- lation	Inhalation	Long-term systemic effects	5,2 mg/m3
Remarks:	REACH data			
	General population	Dermal	Long-term systemic effects	3 mg/kg bw/day
Remarks:	REACH data			-
	General population	Oral	Long-term systemic effects	3 mg/kg bw/day
Remarks:	REACH data			
octahydro-2H-1- benzopyran-2-one	Workers	Inhalation	Long-term systemic effects	6,3 mg/m3
Remarks: REACH data				
	Workers	Dermal	Long-term systemic effects	1,8 mg/kg
Remarks:	REACH data			
	General population	Oral	Long-term systemic effects	1,1 mg/kg
Remarks:	REACH data			
	General population	Inhalation	Long-term systemic effects	1,9 mg/m3
Remarks:	REACH data	•		•
	General population	Dermal	Long-term systemic effects	1,1 mg/kg
Remarks:	REACH data	•		•

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#### 8.2 Exposure controls

### **Engineering measures**

Where appropriate, use closed systems to transfer and process this material. 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 : Nitrile rubber
Break through time : > 60 min
Glove thickness : 0,38 mm

Material : Nitrile rubber
Break through time : > 10 min
Glove thickness : 0,1 mm

Remarks : Avoid skin contact. Use chemically resistant gloves. The se-

lected 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 breakthrough 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 oth-

er.

Skin and body protection : Choose body protection in relation to its type, to the concen-

tration and amount of dangerous substances, and to the spe-

cific work-place.

Personal protection through wearing a tightly closed chemical protection suit and a self-contained breathing apparatus.

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.

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> 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 prac-

tices 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

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 estab-

lished 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 regu-

larly 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.

# **SECTION 9: Physical and chemical properties**

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

Physical state liquid

Colour colorless

conforms to standard Odour

Odour Threshold : not determined Melting point : not determined Boiling point not determined Flammability not determined not determined

Upper explosion limit / Upper

flammability limit

Lower explosion limit / Lower

flammability limit

Flash point 104.00 °C

Method: closed cup

not determined

not determined

: not determined

Auto-ignition temperature Decomposition temperature

not determined Viscosity, dynamic not determined

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Viscosity, kinematic : not determined Water solubility : not determined Solubility in other solvents : not determined

Partition coefficient: n-

octanol/water

: not determined

Vapour pressure : 0,12 hPa (20 °C)

Calculated

Relative density : not determined Density : not determined

9.2 Other information

No data available

# **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.

10.4 Conditions to avoid

Conditions to avoid : Direct sources of heat.

10.5 Incompatible materials

Materials to avoid : Avoid contact with strong acids, alkali or oxidizing agents.

#### 10.6 Hazardous decomposition products

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

### **SECTION 11: Toxicological information**

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### **Acute toxicity**

Not classified due to lack of data.

**Product:** 

Acute oral toxicity : Acute toxicity estimate: > 2.000 mg/kg

Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate: > 2.000 mg/kg

Method: Calculation method

#### Skin corrosion/irritation

Not classified due to lack of data.

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#### **Components:**

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

Species : Rabbit Exposure time : 4 h

Assessment : Causes skin irritation.

Method : Read across
Result : irritating
GLP : yes
Remarks : REACH data

Species : human Exposure time : 48 h

Method : closed patch test Result : No skin irritation

#### 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

# (2E)-2-ethyl-4-(2,2,3-trimethylcyclopent-3-en-1-yl)but-2-en-1-ol:

Species : Rabbit Exposure time : 4 h

Method : OECD Test Guideline 404

Result : No skin irritation

GLP : yes

Remarks : REACH data

# Serious eye damage/eye irritation

Causes serious eye irritation.

### **Components:**

### octahydro-2H-1-benzopyran-2-one:

Species : Rabbit

Assessment : Causes serious eye damage.

Method : OECD Test Guideline 405

Result : Severe eye irritation

Remarks : REACH data

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

Species : Rabbit

Assessment : Causes serious eye irritation.

Method : Draize Test

Result : Moderate eye irritation

GLP : yes

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Test substance : (undiluted) Remarks : REACH data

# (2E)-2-ethyl-4-(2,2,3-trimethylcyclopent-3-en-1-yl)but-2-en-1-ol:

Species : Rabbit Exposure time : 15 min

Method : OECD Test Guideline 405

Result : Eye irritation

GLP : yes

Remarks : REACH data

### Respiratory or skin sensitisation

#### Skin sensitisation

May cause an allergic skin reaction.

### Respiratory sensitisation

Not classified due to lack of data.

# **Components:**

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

Test Type : maximisation study

Species : human

Result : Did not cause sensitisation on laboratory animals.

Test substance : 4.0% in petrolatum

Species : Guinea pig

Assessment : Does not cause skin sensitisation.
Method : OECD Test Guideline 406

Result : Not a skin sensitizer.

GLP : yes

Test substance : 5.0% Remarks : REACH data

# $1\hbox{-}(1,2,3,4,5,6,7,8\hbox{-}Octahydro-2,3,8,8\hbox{-}tetramethyl-2\hbox{-}naphthyl) ethan-1\hbox{-}one:$

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

### (2E)-2-ethyl-4-(2,2,3-trimethylcyclopent-3-en-1-yl)but-2-en-1-ol:

Test Type : maximisation study

Species : human

Result : Did not cause sensitisation on laboratory animals.

Test substance : 5%

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## Germ cell mutagenicity

Not classified due to lack of data.

#### **Components:**

# cis-2-tert-butylcyclohexyl acetate:

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

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: ves

Remarks: Based on data from similar materials

**REACH** data

Test Type: Chromosome aberration test in vitro Test system: Chinese hamster ovary cells

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 473

Result: negative GLP: yes

Remarks: Based on data from similar materials

REACH data

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

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: Chromosome aberration test in vitro

Test system: Human lymphocytes

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 473

Result: negative

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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:

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

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

Test Type: In vivo micronucleus test Genotoxicity in vivo

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 due to lack of data.

according to Regulation (EC) No. 1907/2006

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#### **Components:**

# cis-2-tert-butylcyclohexyl acetate:

Species : Rat Application Route : Oral

Remarks : not required

# Reproductive toxicity

Not classified due to lack of data.

### Components:

# cis-2-tert-butylcyclohexyl acetate:

Effects on fertility : Test Type: reproductive and developmental toxicity study

Species: Rat, male and female

Strain: wistar

Application Route: Ingestion

General Toxicity - Parent: NOAEL: >= 437 mg/kg body weight

Fertility: NOAEL: >= 437 mg/kg body weight

Method: OECD Test Guideline 422

GLP: yes

Remarks: REACH data

Effects on foetal develop-

ment

Test Type: Pre-natal Species: Rat, female

Strain: wistar

Application Route: Ingestion Duration of Single Treatment: 22 d Frequency of Treatment: 1 daily

General Toxicity Maternal: NOAEL: >= 444 mg/kg body weight Developmental Toxicity: NOAEL: >= 444 mg/kg body weight

Method: OECD Test Guideline 414

GLP: yes

Remarks: REACH data

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

Effects on foetal develop-

ment

Test Type: Embryo-foetal development

Species: Rat, female Strain: Sprague-Dawley Application Route: Oral

General Toxicity Maternal: NOAEL: 1.000 mg/kg body weight Developmental Toxicity: NOAEL: 1.000 mg/kg body weight Method: Study for effects on embryo-fetal development

Result: Not classified

GLP: yes

Remarks: Read across

**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

according to Regulation (EC) No. 1907/2006

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**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

Remarks: REACH data

Effects on foetal develop-

ment

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 due to lack of data.

#### STOT - repeated exposure

Not classified due to lack of data.

# Repeated dose toxicity

#### **Components:**

### cis-2-tert-butylcyclohexyl acetate:

Species : Rat, female

NOAEL : >= 423 mg/kg

Application Route : Ingestion

according to Regulation (EC) No. 1907/2006

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Exposure time : 90 d Number of exposures : 1x /day

Method : OECD Test Guideline 408

GLP : yes
Target Organs : Kidney
Remarks : REACH data

Species : Rat, male
LOAEL : 37 mg/kg
Application Route : Ingestion
Exposure time : 90 d
Number of exposures : 1x /day

Method : OECD Test Guideline 408

GLP : yes
Target Organs : Kidney
Remarks : REACH data

Species : Rat, male

NOAEL : >= 505 mg/kg

Application Route : Ingestion

Method : OECD Test Guideline 422

GLP : yes
Target Organs : Kidney
Remarks : REACH data

Species : Rat, female

NOAEL : >= 437 mg/kg

Application Route : Ingestion

Method : OECD Test Guideline 422

GLP : yes
Target Organs : Kidney
Remarks : REACH data

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

Species : Rat, male and female

NOAEL : 500 mg/kg
NOAEL : 500 mg/kg
Application Route : Oral
Number of exposures : 1x /day
Method : Read across

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:

Species : Rat, male and female

NOAEL : 150 mg/kg
Application Route : Oral
Exposure time : 28-day
Number of exposures : 1x /day

Method : OECD Test Guideline 407

GLP : ves

Remarks : REACH data

according to Regulation (EC) No. 1907/2006

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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 due to lack of data.

### 11.2 Information on other hazards

### **Endocrine disrupting properties**

### **Product:**

Assessment : The substance/mixture does not contain components consid-

ered 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.

# **SECTION 12: Ecological information**

#### 12.1 Toxicity

#### Components:

### decahydro heptamethyl indenofuran:

Toxicity to fish : LC50 (Fish): > 0,055 mg/l

Exposure time: 96 h Remarks: REACH data

according to Regulation (EC) No. 1907/2006

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NOEC (Fish): 0,055 mg/l Exposure time: 96 h Remarks: REACH data

LC50 (Fish): > 0,055 mg/l Exposure time: 48 h Remarks: REACH data

Toxicity to daphnia and other :

aquatic invertebrates

EC50 : > 0,099 mg/l Exposure time: 48 h Remarks: REACH data

NOEC: 0,099 mg/l Exposure time: 48 h Remarks: REACH data

Toxicity to algae/aquatic

plants

NOEC (algae): 0,093 mg/l

Exposure time: 72 h Remarks: REACH data

EC50 (algae): > 0,093 mg/l Exposure time: 72 h Remarks: REACH data

M-Factor (Acute aquatic tox-

icity)

: 1

Toxicity to microorganisms : IC50 : > 1.000 mg/l

Exposure time: 3 h Remarks: REACH data

NOEC: 1.000 mg/l Exposure time: 3 h Remarks: REACH data

Toxicity to daphnia and other : aquatic invertebrates (Chron-

ic toxicity)

NOEC: > 0,0341 mg/l Exposure time: 21 d

Species: Daphnia magna (Water flea)

Test Type: semi-static test Analytical monitoring: yes

Method: OECD Test Guideline 211

GLP: yes

Remarks: REACH data

M-Factor (Chronic aquatic

toxicity)

: 1

**Ecotoxicology Assessment** 

Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.

according to Regulation (EC) No. 1907/2006

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## 12.2 Persistence and degradability

#### **Components:**

## cis-2-tert-butylcyclohexyl acetate:

Biodegradability : Test Type: aerobic

Inoculum: activated sludge Concentration: 100 mg/l

Result: Not readily biodegradable.

Biodegradation: 43 % Exposure time: 28 d

Method: OECD Test Guideline 301F

GLP: yes

Remarks: REACH data

Test Type: aerobic Inoculum: activated sludge

Concentration: 100 mg/l

Result: Not readily biodegradable.

Biodegradation: 62 % Exposure time: 61 d

Method: OECD Test Guideline 301F

GLP: yes

Remarks: REACH data

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

Biodegradability : Test Type: aerobic

Inoculum: activated sludge, non-adapted

Concentration: 10 mg/l Result: Readily biodegradable.

Biodegradation: 72 % Exposure time: 28 d Method: OECD 301 B

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: ves

Remarks: REACH data

# 12.3 Bioaccumulative potential

#### Components:

# cis-2-tert-butylcyclohexyl acetate:

according to Regulation (EC) No. 1907/2006

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Bioaccumulation : Species: Oncorhynchus mykiss (rainbow trout)

Exposure time: 33 d

Bioconcentration factor (BCF): 156 Method: OECD Test Guideline 305

GLP: yes

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

Bioaccumulation : Bioconcentration factor (BCF): 64,8

Method: see user defined free text

Remarks: The value is given based on a SAR/AAR approach

using OECD Toolbox, DEREK, VEGA QSAR models

(CAESAR models), etc. Bioaccumulation is unlikely.

**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

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 Endocrine disrupting properties

**Product:** 

Assessment : The substance/mixture does not contain components consid-

ered 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.

according to Regulation (EC) No. 1907/2006

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#### 12.7 Other adverse effects

Product:

mation

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

### **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.

Empty containers should be taken to an approved waste han-Contaminated packaging

dling site for recycling or disposal.

# **SECTION 14: Transport information**

#### 14.1 UN number or ID number

Not regulated as a dangerous good

#### 14.2 UN proper shipping name

Not regulated as a dangerous good

#### 14.3 Transport hazard class(es)

Not regulated as a dangerous good

## 14.4 Packing group

Not regulated as a dangerous good

## 14.5 Environmental hazards

Not regulated as a dangerous good

### 14.6 Special precautions for user

Remarks Not classified as dangerous in the meaning of transport regu-

lations.

### 14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

## **SECTION 15: Regulatory information**

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)

Conditions of restriction for the following entries should be considered: Number on list 75, 3

tetrahydro-2-isobutyl-4-methylpyran-

according to Regulation (EC) No. 1907/2006

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4-ol, mixed isomers (cis and trans)

vanillin

(+/-) trans-3,3-dimethyl-5-(2,2,3-trimethyl-cyclopent-3-en-1-yl)pent-4-

en-2-ol coumarin eugenol

(R)-p-mentha-1,8-diene (1R,3S,7R,8R,10R,13R)-5,5,7,9,9,13-hexamethyl-4,6-

dioxatetracy-

clo[6.5.1.01,10.03,7]tetradecane

cinnamonitrile citronellol (-)-pin-2(10)-ene

geraniol citral

p-mentha-1,3-diene

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

explosives precursors

acetone

REACH - Candidate List of Substances of Very High

Concern for Authorisation (Article 59).

Not applicable

Regulation (EC) No 1005/2009 on substances that de-

plete the ozone layer

Not applicable

Regulation (EU) 2019/1021 on persistent organic pollu-

tants (recast)

Not applicable

REACH - List of substances subject to authorisation

(Annex XIV)

Not applicable

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

acetone (ANNEX II)

# 15.2 Chemical safety assessment

A Chemical Safety Assessment is not required for this substance.

#### **SECTION 16: Other information**

### **Full text of H-Statements**

H226 : Flammable liquid and vapour.

H301 : Toxic if swallowed.
H302 : Harmful if swallowed.
H311 : Toxic in contact with skin.
H315 : Causes skin irritation.

H317 : May cause an allergic skin reaction.

according to Regulation (EC) No. 1907/2006

## **Cobalt Blue 6219146**

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H318 H319 H336 H400 H410 H411		<ul><li>Very toxic to aqu</li><li>Very toxic to aqu</li><li>Toxic to aquatic</li></ul>	eye irritation. rsiness or dizziness.

#### Full text of other abbreviations

Acute Tox. : Acute toxicity

Aquatic Acute : Short-term (acute) aquatic hazard
Aquatic Chronic : Long-term (chronic) aquatic hazard

Eye Dam. : Serious eye damage

Eye Irrit. : Eye irritation
Flam. Liq. : Flammable liquids
Skin Irrit. : Skin irritation
Skin Sens. : Skin sensitisation

STOT SE : Specific target organ toxicity - single exposure

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways: ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - 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 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; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

#### **Further information**

Other information : In December 2003, the National Institute for Occupational

according to Regulation (EC) No. 1907/2006

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Safety and Health ("NIOSH") published an Alert on preventing lung disease in workers who use or make flavorings [NIOSH Publication Number 2004-110].

In August 2004, the United States Flavor and Extract Manufacturers Association (FEMA) issued a report entitled "Respiratory Safety in the Flavor Manufacturing Workplace".

Both of these reports provide recommendations for reducing employee exposure and for medical surveillance in the work-place. The recommendations in these reports are generally applicable to the use of any chemical in the workplace and you are strongly urged to review both of these reports. The report published by FEMA also contains a list of "high priority" chemicals. If any of these chemicals are present in this product at a concentration >= 1.0% due to an intentional addition by IFF, the chemical(s) will be identified in this safety data sheet.

According to Regulation (EC) No. 1907/2006 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.

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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