

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## Pumpkin Spice In Store 6248314

Version	Revision Date:	SDS Number:	Date of last issue: 04.04.2024
1.2	11.04.2024	300001143350	Date of first issue: 04.04.2024

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

#### 1.1 Product identifier

Trade name : Pumpkin Spice In Store 6248314

Sales Number : 6248314

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

Use of the Sub-  
stance/Mixture : Fragrance for consumer product

#### 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

+1 8333360131

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### 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, Category 2 H411: Toxic to aquatic life with long lasting effects.

#### 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.  
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements : **Prevention:**  
P261 Avoid breathing mist or vapours.  
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.

**Disposal:**

P501 Dispose of contents/ container to an approved waste disposal plant.

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

101-39-3	$\alpha$ -methylcinnamaldehyde
97-53-0	EUGENOL
122-40-7	AMYL CINNAMAL
104-55-2	Cinnamal
87-44-5	Beta-Caryophyllene
80-56-8, 7785-26-4	pin-2(3)-ene
106-24-1	geraniol
5392-40-5	citral
127-91-3	BETA-PINENES
80-71-7	2-hydroxy-3-methylcyclopent-2-enone
3658-77-3	DIMETHYLHYDROXY FURANONE
97-54-1	isoeugenol

### 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

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Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
(2E)-2-methyl-3-phenylacrylaldehyde	101-39-3 701-219-0 01-2119538797-21	Skin Sens. 1B; H317 Aquatic Acute 1; H400 Aquatic Chronic 2; H411	>= 2,5 - < 10
cis-2-tert-butylcyclohexyl acetate	88-41-5 243-718-1 01-2119970713-33	Aquatic Chronic 2; H411	>= 2,5 - < 10
eugenol	97-53-0 202-589-1 01-2119971802-33	Eye Irrit. 2; H319 Skin Sens. 1B; H317  M-Factor (Acute aquatic toxicity): 1  Acute toxicity estimate  Acute oral toxicity: 2.500 mg/kg	>= 1 - < 10
octahydro-2H-1-benzopyran-2-one	4430-31-3 224-623-4	Eye Dam. 1; H318	>= 1 - < 3
3-ethoxy-4-hydroxybenzaldehyde	121-32-4 204-464-7	Eye Irrit. 2; H319	>= 1 - < 10
2-ethyl-3-hydroxy-4-pyrone	4940-11-8 225-582-5 01-2120758795-36	Acute Tox. 4; H302	>= 1 - < 10
2-benzylideneheptanal	122-40-7 204-541-5	Skin Sens. 1B; H317 Aquatic Chronic 2; H411  M-Factor (Acute aquatic toxicity): 1	>= 0,25 - < 1
cinnamaldehyde	104-55-2 203-213-9 01-2119935242-45-	Acute Tox. 4; H312 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1A; H317 Aquatic Chronic 3; H412	>= 0,25 - < 1
Propanedioic acid, 1-(3,3-dimethylcyclohexyl)ethyl ethyl ester	478695-70-4 455-260-1 01-0000019245-71	Aquatic Acute 1; H400 Aquatic Chronic 1; H410  M-Factor (Acute aquatic toxicity): 1	>= 0,25 - < 1
2,6-di-tert-butyl-p-cresol	128-37-0 204-881-4 01-2119565113-46,	Aquatic Chronic 1; H410 Aquatic Acute 1;	>= 0,25 - < 1

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	01-2119555270-46	H400	
caryophyllene	87-44-5 201-746-1	Asp. Tox. 1; H304 Skin Sens. 1B; H317	$\geq 0,1 - < 1$
pin-2(3)-ene	80-56-8 201-291-9 01-2119519223-49	Flam. Liq. 3; H226 Asp. Tox. 1; H304 Skin Irrit. 2; H315 Skin Sens. 1B; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 Acute Tox. 4; H302  M-Factor (Acute aquatic toxicity): 1	$\geq 0,1 - < 0,25$
geraniol	106-24-1 203-377-1 603-241-00-5 01-2119552430-49	Skin Irrit. 2; H315 Eye Dam. 1; H318 Skin Sens. 1; H317	$\geq 0,1 - < 1$
citral	5392-40-5 226-394-6 605-019-00-3 01-2119462829-23	Skin Irrit. 2; H315 Skin Sens. 1; H317 Eye Irrit. 2; H319	$\geq 0,1 - < 1$
(-)-pin-2(10)-ene	127-91-3 242-060-2 01-2119519230-54	Asp. Tox. 1; H304 Skin Irrit. 2; H315 Flam. Liq. 3; H226 Skin Sens. 1B; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410  M-Factor (Acute aquatic toxicity): 1	$\geq 0,1 - < 0,25$
2-hydroxy-3-methylcyclopent-2-enone	80-71-7 201-303-2	Skin Sens. 1; H317 Acute Tox. 4; H302	$\geq 0,1 - < 1$
4-hydroxy-2,5-dimethylfuran-2(3H)-one	3658-77-3 222-908-8 01-2120754473-52	Skin Sens. 1A; H317 Eye Dam. 1; H318 Skin Corr. 1B; H314 Acute Tox. 4; H302	$< 0,1$
isoeugenol	97-54-1 202-590-7 604-094-00-X	Acute Tox. 4; H312 Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1A; H317 Acute Tox. 4; H332 STOT SE 3; H335  specific concentration limit Skin Sens. 1A; H317 $\geq 0,01 \%$	$< 0,01$

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		Acute toxicity estimate	
		Acute inhalation toxicity (dust/mist): 1,5 mg/l	

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

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

- Treatment : Treat symptomatically.

### 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.

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### 5.3 Advice for firefighters

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

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 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 : Keep away from ignition sources and naked flame.

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fire and explosion

### 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

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

Substance name	End Use	Exposure routes	Potential health effects	Value
eugenol	Workers	Inhalation	Long-term systemic effects	21,2 mg/m <sup>3</sup>
Remarks:	REACH data			
	Workers	Dermal	Long-term systemic effects	6 mg/kg bw/day
Remarks:	REACH data			
	Workers	Dermal	Long-term local effects	
Remarks:	The substance does not have to be classified for long-term human health effects and no adverse effects are observed up to the limit dose level for repeated dose toxicity. A DNEL is therefore not required.			
	Workers	Dermal	Acute local effects	
Remarks:	not required			
	Workers	Eye contact	Local effects	
Remarks:	not required			
	General population	Inhalation	Long-term systemic effects	5,22 mg/m <sup>3</sup>
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			
cinnamaldehyde	Workers	Inhalation	Long-term systemic effects	13,6 mg/m <sup>3</sup>
	Workers	Dermal	Long-term systemic effects	3,85 mg/kg bw/day
	Workers	Dermal	Acute systemic effects	
Remarks:	not required			
	Consumer use	Inhalation	Long-term systemic effects	2,4 mg/m <sup>3</sup>
	Consumer use	Dermal	Acute systemic effects	

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Remarks:	not required			
	Consumer use	Dermal	Long-term systemic effects	1,37 mg/kg bw/day
	Consumer use	Oral	Long-term systemic effects	1,37 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			
3-ethoxy-4-hydroxybenzaldehyde	Workers	Inhalation	Long-term systemic effects	49 mg/m3
	Workers	Inhalation	Acute systemic effects	98 mg/m3
	Workers	Dermal	Long-term systemic effects	7 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	8,75 mg/m3
	Consumers	Inhalation	Acute systemic effects	17,5 mg/m3
	Consumers	Dermal	Long-term systemic effects	2,5 mg/kg bw/day
	Consumers	Oral	Long-term systemic effects	2,5 mg/kg bw/day

### 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



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

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.  
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.

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 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

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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

Physical state	:	liquid
Colour	:	pale yellow
Odour	:	conforms to standard
Odour Threshold	:	not determined
Melting point	:	not determined
Boiling point	:	not determined
Flammability	:	not determined
Upper explosion limit / Upper flammability limit	:	not determined
Lower explosion limit / Lower flammability limit	:	not determined
Flash point	:	102,00 °C Method: closed cup
Auto-ignition temperature	:	not determined
Decomposition temperature	:	not determined
pH	:	not determined
Viscosity, dynamic	:	not determined
Viscosity, kinematic	:	not determined
Water solubility	:	not determined
Solubility in other solvents	:	not determined
Partition coefficient: n-octanol/water	:	not determined
Vapour pressure	:	0,08 hPa (20 °C) Calculated
Relative density	:	0,8934 - 0,9034
Density	:	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.

#### 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.

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### 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

##### Skin corrosion/irritation

Not classified due to lack of data.

##### Components:

##### **(2E)-2-methyl-3-phenylacrylaldehyde:**

Species : human  
Exposure time : 48 h  
Method : closed patch test  
Result : No skin irritation

Species : Rabbit  
Exposure time : 24 h  
Result : No skin irritation

##### **eugenol:**

Species : Rabbit  
Exposure time : 4 h  
Assessment : Causes mild skin irritation.

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Method : OECD Test Guideline 404  
Result : Mild skin irritation  
GLP : yes  
Test substance : (undiluted)  
Remarks : REACH data

### **cinnamaldehyde:**

Result : Skin irritation  
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

#### **eugenol:**

Species : Rabbit  
Exposure time : 7 d  
Assessment : Causes serious eye irritation.  
Method : OECD Test Guideline 405  
Result : Eye irritation  
Test substance : (undiluted)  
Remarks : REACH data

#### **3-ethoxy-4-hydroxybenzaldehyde:**

Species : Rabbit  
Method : OECD Test Guideline 405  
Result : Eye irritation  
Remarks : Supplier

### **Respiratory or skin sensitisation**

#### **Skin sensitisation**

May cause an allergic skin reaction.

#### **Respiratory sensitisation**

Not classified due to lack of data.

### **Components:**

#### **(2E)-2-methyl-3-phenylacrylaldehyde:**

Test Type : maximisation study  
Species : human  
Result : Did not cause sensitisation on laboratory animals.  
Test substance : 8.0% in petrolatum

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### **eugenol:**

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 : The product is a skin sensitiser, sub-category 1B.  
Remarks : REACH data

Test Type : maximisation study  
Species : Guinea pig  
Assessment : The product is a skin sensitiser, sub-category 1B.  
Method : OECD Test Guideline 406  
Result : The product is a skin sensitiser, sub-category 1B.  
Remarks : REACH data

### **cinnamaldehyde:**

Species : Guinea pig  
Assessment : Probability or evidence of high skin sensitisation rate in humans  
Method : OECD Test Guideline 406  
Result : The product is a skin sensitiser, sub-category 1A.  
GLP : No information available.

Test substance : 2.0%  
Remarks : REACH data

Species : Guinea pig  
Result : Causes sensitisation.  
Test substance : 0.5%

### **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: yes  
Remarks: Based on data from similar materials

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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

### eugenol:

#### Genotoxicity in vitro

: Test Type: unscheduled DNA synthesis assay  
Test system: mammalian cells  
Method: OECD Test Guideline 482  
Result: negative  
GLP: no  
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  
Remarks: REACH data

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

#### Genotoxicity in vivo

: Test Type: In vivo micronucleus test  
Species: Rat (female)  
Application Route: Oral  
Method: OECD Test Guideline 474  
Result: negative  
Remarks: REACH data

Test Type: Transgenic rodent somatic cell gene mutation assay  
Species: Mouse (male)  
Application Route: Ingestion  
Method: OECD Test Guideline 488  
Result: negative  
Remarks: REACH data

### Carcinogenicity

Not classified due to lack of data.

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### Components:

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

Species : Rat  
Application Route : Oral  
Remarks : not required

#### **eugenol:**

Species : Rat, male and female  
Application Route : Ingestion  
Activity duration : 730 d  
Method : OECD Test Guideline 451  
Result : negative  
Remarks : REACH data

Species : Mouse, male and female  
Application Route : Ingestion  
Activity duration : 730 d  
Method : OECD Test Guideline 451  
Result : negative  
Remarks : REACH data

### **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:  $\geq$  437 mg/kg body weight  
Fertility: NOAEL:  $\geq$  437 mg/kg body weight  
Method: OECD Test Guideline 422  
GLP: yes  
Remarks: REACH data

Effects on foetal development : 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:  $\geq$  444 mg/kg body weight  
Developmental Toxicity: NOAEL:  $\geq$  444 mg/kg body weight  
Method: OECD Test Guideline 414  
GLP: yes  
Remarks: REACH data

#### **eugenol:**

Effects on fertility : Test Type: Two-generation study

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Species: Rat, male and female  
Application Route: Oral  
Dose: >= 700 mg/kg bw/day  
General Toxicity - Parent: LOAEL: <= 70 mg/kg body weight  
General Toxicity F1: NOAEL: >= 230 mg/kg body weight  
Fertility: NOAEL: >= 700 mg/kg body weight  
Method: OECD Test Guideline 416  
GLP: yes  
Remarks: Based on data from similar materials  
REACH data

Effects on foetal development : Test Type: Pre-natal  
Species: Rat, female  
Application Route: Oral  
Duration of Single Treatment: 13 d  
General Toxicity Maternal: LOAEL: 250 mg/kg body weight  
Developmental Toxicity: NOAEL: 500 mg/kg body weight  
Method: OECD Test Guideline 414  
Result: No teratogenic effects  
GLP: yes  
Remarks: Based on data from similar materials  
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  
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



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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

### **eugenol:**

Species : Rat, male  
NOAEL : ca. 600 mg/kg  
LOAEL : ca.1.250 mg/kg  
Application Route : Ingestion  
Exposure time : 90 d  
Number of exposures : 1x /day  
Method : OECD Test Guideline 408  
Remarks : REACH data

Species : Rat, female  
NOAEL : >= 1.250 mg/kg  
Application Route : Ingestion  
Exposure time : 90 d  
Number of exposures : 1x /day  
Method : OECD Test Guideline 408  
Remarks : REACH data

Species : Mouse, male and female  
NOAEL : >= 900 mg/kg  
Application Route : Ingestion  
Exposure time : 90 d  
Number of exposures : 1x /day  
Method : OECD Test Guideline 408  
Remarks : REACH data

### **Aspiration toxicity**

Not classified due to lack of data.

### **Components:**

#### **caryophyllene:**

May be fatal if swallowed and enters airways.

#### **pin-2(3)-ene:**

May be fatal if swallowed and enters airways.

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### 11.2 Information on other hazards

#### Endocrine disrupting properties

##### Product:

Assessment : 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 12: Ecological information

### 12.1 Toxicity

No data available

### 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

##### **eugenol:**

Biodegradability : Test Type: aerobic  
Inoculum: activated sludge, non-adapted  
Concentration: 3 mg/l  
Result: Readily biodegradable.  
Biodegradation: 82 %  
Exposure time: 28 d  
Method: Closed Bottle test  
GLP: yes  
Remarks: REACH data

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### 12.3 Bioaccumulative potential

#### Components:

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

Bioaccumulation : Species: Oncorhynchus mykiss (rainbow trout)  
Exposure time: 33 d  
Bioconcentration factor (BCF): 156  
Method: OECD Test Guideline 305  
GLP: yes

##### **eugenol:**

Partition coefficient: n-octanol/water : log Pow: 1,83 (30 °C)  
Method: OECD 117  
GLP: no  
Remarks: REACH data

### 12.4 Mobility in soil

#### Product:

Mobility : Remarks: No data available

### 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 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.

### 12.7 Other adverse effects

#### Product:

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

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## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

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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 or ID number

ADR	:	UN 3082
IMDG	:	UN 3082
IATA	:	UN 3082

#### 14.2 UN proper shipping name

ADR	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ALPHA-METHYL CINNAMIC ALDEHYDE)
IMDG	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ALPHA-METHYL CINNAMIC ALDEHYDE)
IATA	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ALPHA-METHYL CINNAMIC ALDEHYDE)

#### 14.3 Transport hazard class(es)

ADR	:	9
IMDG	:	9
IATA	:	9

#### 14.4 Packing group

<b>ADR</b>	
Packing group	: III
Classification Code	: M6
Hazard Identification Number	: 90
Labels	: 9
Tunnel restriction code	: (-)
<b>IMDG</b>	
Packing group	: III
Labels	: 9
EmS Code	: F-A, S-F
<b>IATA (Cargo)</b>	
Packing instruction (cargo aircraft)	: 964
Packing instruction (LQ)	: Y964
Packing group	: III
Labels	: Miscellaneous Dangerous Goods

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### 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 (ALPHA-METHYL CINNAMIC ALDEHYDE)

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

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

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

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

(2E)-2-methyl-3-phenylacrylaldehyde  
eugenol  
2-benzylideneheptanal  
cinnamaldehyde  
geraniol  
citral  
(-)-pin-2(10)-ene  
decanoic acid  
(R)-p-mentha-1,8-diene  
p-mentha-1,3-diene  
safrole (Number on list 28)  
isoeugenol  
3,7,7-trimethylbicyclo[4.1.0]hept-3-ene  
4-allylveratrole

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cinnamyl alcohol  
 $\alpha$ -hexylcinnamaldehyde  
vanillin  
2-pentyl-3-phenylprop-2-en-1-ol  
2-furaldehyde  
styrene  
4-allylanisole

safrole (Number on list 28)

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 deplete the ozone layer : Not applicable

Regulation (EU) 2019/1021 on persistent organic pollutants (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.

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### SECTION 16: Other information

#### Full text of H-Statements

H226	: Flammable liquid and vapour.
H302	: Harmful if swallowed.
H304	: May be fatal if swallowed and enters airways.
H312	: Harmful in contact with skin.
H314	: Causes severe skin burns and eye damage.
H315	: Causes skin irritation.
H317	: May cause an allergic skin reaction.
H318	: Causes serious eye damage.
H319	: Causes serious eye irritation.
H332	: Harmful if inhaled.
H335	: May cause respiratory irritation.
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.

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### Full text of other abbreviations

Acute Tox.	:	Acute toxicity
Aquatic Acute	:	Short-term (acute) aquatic hazard
Aquatic Chronic	:	Long-term (chronic) aquatic hazard
Asp. Tox.	:	Aspiration hazard
Eye Dam.	:	Serious eye damage
Eye Irrit.	:	Eye irritation
Flam. Liq.	:	Flammable liquids
Skin Corr.	:	Skin corrosion
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; 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 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 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 "Respir-
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atory Safety in the Flavor Manufacturing Workplace". Both of these reports provide recommendations for reducing employee exposure and for medical surveillance in the workplace. 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  $\geq 1.0\%$  due to an intentional addition, 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 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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