

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

All the Jingle Ladies In Store 6248534

Version 1.0 Revision Date: 04.04.2024 SDS Number: 300001143409 Date of last issue: -
Date of first issue: 04.04.2024

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

1.1 Product identifier

Trade name : All the Jingle Ladies In Store 6248534

Sales Number : 6248534

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

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Skin irritation, Category 2 H315: Causes skin irritation.

Skin sensitisation, Category 1 H317: May cause an allergic skin reaction.

Long-term (chronic) aquatic hazard, Category 3 H412: Harmful to aquatic life with long lasting effects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word : Warning

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

All the Jingle Ladies In Store 6248534

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	04.04.2024	300001143409	Date of first issue: 04.04.2024

Hazard statements : H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
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.

Response:
P302 + P352 IF ON SKIN: Wash with plenty of water.
P333 + P313 If skin irritation or rash occurs: 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:

5989-27-5	(R)-p-mentha-1,8-diene
101-86-0	Hexyl Cinnamal
10339-55-6	Ethyl Linalool
68155-66-8, 54464-57-2, 68155-67-9, 54464-59-4	Tetramethyl Acetyloctahydronaphthalenes
77-83-8	ETHYL METHYLPHENYLGLYCIDATE
80-56-8, 7785- 26-4	pin-2(3)-ene
5392-40-5	citral
1093653-57-6	butanal, 4-(heptyoxy)-3-methyl-
127-51-5	Alpha-Isomethyl Ionone
106-22-9, 7540-51-4	Citronellol
27939-60-2, 68039-48-5, 68039-49-6, 68737-61-1	Dimethylcyclohex-3-ene-1-carbaldehyde (isomer unspecified)
67633-96-9	CIS-3-HEXENYL METHYL CARBONATE
71048-82-3, 57378-68-4	Delta-Damascone
3658-77-3	DIMETHYLHYDROXY FURANONE

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.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

All the Jingle Ladies In Store 6248534

Version 1.0 Revision Date: 04.04.2024 SDS Number: 300001143409 Date of last issue: -
Date of first issue: 04.04.2024

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.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
(R)-p-mentha-1,8-diene	5989-27-5 227-813-5 601-029-00-7 01-2119529223-47	Skin Irrit. 2; H315 Skin Sens. 1B; H317 Aquatic Chronic 3; H412 Flam. Liq. 3; H226 Asp. Tox. 1; H304 Aquatic Acute 1; H400 M-Factor (Acute aquatic toxicity): 1	>= 2,5 - < 10
cis-2-tert-butylcyclohexyl acetate	88-41-5 243-718-1 01-2119970713-33	Aquatic Chronic 2; H411	>= 2,5 - < 10
α -hexylcinnamaldehyde	101-86-0 639-566-4 01-2119533092-50	Aquatic Chronic 2; H411 Skin Sens. 1B; H317 Aquatic Acute 1; H400 M-Factor (Acute aquatic toxicity): 1	>= 2,5 - < 10
2-ethyl-3-hydroxy-4-pyrone	4940-11-8 225-582-5 01-2120758795-36	Acute Tox. 4; H302	>= 1 - < 10
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
3,7-dimethylnona-1,6-dien-3-ol	10339-55-6 233-732-6 01-2119969272-32	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1B; H317	>= 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
ethyl 2,3-epoxy-3-phenylbutyrate	77-83-8 201-061-8 01-2119967770-28	Aquatic Chronic 2; H411 Skin Sens. 1B; H317	>= 1 - < 2,5

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

All the Jingle Ladies In Store 6248534

Version
1.0

Revision Date:
04.04.2024

SDS Number:
300001143409

Date of last issue: -
Date of first issue: 04.04.2024

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 <hr/> M-Factor (Acute aquatic toxicity): 1	>= 0,25 - < 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	>= 0,1 - < 1
4-(heptyloxy)-3-methylbutanal	1093653-57-6 802-100-7 01-2120089868-31	Skin Sens. 1B; H317 Aquatic Chronic 2; H411 Skin Irrit. 2; H315	>= 0,25 - < 1
allyl hexanoate	123-68-2 204-642-4	Acute Tox. 3; H311 Acute Tox. 3; H301 Acute Tox. 3; H331 Aquatic Chronic 3; H412 Aquatic Acute 1; H400 <hr/> Acute toxicity estimate Acute inhalation toxicity (vapour): 3 mg/l	>= 0,25 - < 1
3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one	127-51-5 204-846-3	Aquatic Chronic 2; H411 Skin Sens. 1B; H317 <hr/> M-Factor (Acute aquatic toxicity): 1	>= 0,25 - < 1
citronellol	106-22-9 203-375-0 01-2119453995-23	Skin Irrit. 2; H315 Skin Sens. 1B; H317 Eye Irrit. 2; H319	>= 0,1 - < 1
Dimethylcyclohex-3-ene-1-carbaldehyde (isomer unspecified)	27939-60-2 943-728-2	Skin Sens. 1B; H317 Aquatic Chronic 2; H411 Skin Irrit. 2; H315	>= 0,1 - < 0,25
4-methyl-3-decen-5-ol	81782-77-6 279-815-0 01-2119983528-21	Aquatic Acute 1; H400 Aquatic Chronic 2; H411	>= 0,1 - < 0,25
cis-hex-3-en-1-yl methyl carbonate	67633-96-9 266-797-4 01-2120735800-60	Skin Sens. 1B; H317 Skin Irrit. 2; H315	>= 0,1 - < 1

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

All the Jingle Ladies In Store 6248534

Version 1.0 Revision Date: 04.04.2024 SDS Number: 300001143409 Date of last issue: -
Date of first issue: 04.04.2024

7-methyl-3-methyleneocta-1,6-diene	123-35-3 204-622-5 01-2119514321-56	Asp. Tox. 1; H304 Skin Irrit. 2; H315 Flam. Liq. 3; H226 Eye Irrit. 2; H319 Aquatic Chronic 2; H411 Aquatic Acute 1; H400	>= 0,1 - < 0,25
[1(E),2]-1-(2,6,6-trimethylcyclohex-3-en-1-yl)but-2-en-1-one	71048-82-3 275-156-8 01-2119535122-53	Acute Tox. 4; H302 Skin Irrit. 2; H315 Skin Sens. 1A; H317 Aquatic Chronic 1; H410 Aquatic Acute 1; H400	>= 0,025 - < 0,1
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

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.

4.3 Indication of any immediate medical attention and special treatment needed

- Treatment : Treat symptomatically.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

All the Jingle Ladies In Store 6248534

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	04.04.2024	300001143409	Date of first issue: 04.04.2024

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.
-

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

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.
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SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

All the Jingle Ladies In Store 6248534

Version 1.0 Revision Date: 04.04.2024 SDS Number: 300001143409 Date of last issue: -
Date of first issue: 04.04.2024

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

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 ²
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/m ³
Remarks:	Exposure time: 8 h			
tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans)	Workers	Inhalation	Long-term systemic effects	44,1 mg/m ³
Remarks:	REACH data			
	Workers	Dermal	Long-term systemic effects	41,7 mg/kg bw/day
Remarks:	REACH data			
	Workers	Eye contact	Local effects	
Remarks:	Available hazard data do not enable the derivation of a DNEL for eye irri-			

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

All the Jingle Ladies In Store 6248534

Version 1.0 Revision Date: 04.04.2024 SDS Number: 300001143409 Date of last issue: -
Date of first issue: 04.04.2024

	tant effects.			
	General population	Inhalation	Long-term systemic effects	13 mg/m3
Remarks:	REACH data			
	General population	Dermal	Long-term systemic effects	25
Remarks:	REACH data			
	General population	Oral	Long-term systemic effects	7,5 mg/kg bw/day
Remarks:	REACH data			

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 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.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

All the Jingle Ladies In Store 6248534

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	04.04.2024	300001143409	Date of first issue: 04.04.2024

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 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.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	: liquid
Colour	: colorless
Odour	: conforms to standard
Odour Threshold	: not determined
Melting point	: not determined
Boiling point	: not determined
Flammability	: not determined
Upper explosion limit / Upper	: not determined

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

All the Jingle Ladies In Store 6248534

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	04.04.2024	300001143409	Date of first issue: 04.04.2024

flammability limit
Lower explosion limit / Lower
flammability limit : not determined
Flash point : 72,00 °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 : 1,53 hPa (20 °C)
Calculated

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:

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

All the Jingle Ladies In Store 6248534

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	04.04.2024	300001143409	Date of first issue: 04.04.2024

Acute oral toxicity : Acute toxicity estimate: > 2.000 mg/kg
Method: Calculation method

Acute inhalation toxicity : Acute toxicity estimate: > 20 mg/l
Exposure time: 4 h
Test atmosphere: vapour
Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate: > 2.000 mg/kg
Method: Calculation method

Skin corrosion/irritation

Causes skin irritation.

Components:

(R)-p-mentha-1,8-diene:

Species : Rabbit
Exposure time : 4 h
Assessment : Causes skin irritation.
Method : OECD Test Guideline 404
Result : Skin irritation
GLP : yes
Test substance : (undiluted)
Remarks : REACH data

3,7-dimethylnona-1,6-dien-3-ol:

Assessment : Causes mild skin irritation.
Method : OECD Test Guideline 439
Result : Skin irritation
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 : 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

Not classified due to lack of data.

Components:

tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans):

Species : Rabbit
Assessment : Causes serious eye irritation.
Method : Regulation (EC) No. 440/2008, Annex, B.5
Result : Eye irritation

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

All the Jingle Ladies In Store 6248534

Version 1.0 Revision Date: 04.04.2024 SDS Number: 300001143409 Date of last issue: -
Date of first issue: 04.04.2024

GLP : yes
Remarks : REACH data

3,7-dimethylnona-1,6-dien-3-ol:

Species : Rabbit
Assessment : Causes serious eye irritation.
Method : Draize Test
Result : Eye irritation
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:

(R)-p-mentha-1,8-diene:

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

Test substance : 22% in ethanol/DEP (75:25)
Remarks : REACH data

3,7-dimethylnona-1,6-dien-3-ol:

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 : Skin Sensitizer
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:

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

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

All the Jingle Ladies In Store 6248534

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	04.04.2024	300001143409	Date of first issue: 04.04.2024

Germ cell mutagenicity

Not classified due to lack of data.

Components:

(R)-p-mentha-1,8-diene:

Genotoxicity in vitro : 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
Remarks: REACH data

Test Type: sister chromatid exchange assay
Test system: Chinese hamster ovary cells
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 479
Result: negative
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

Genotoxicity in vivo : Test Type: comet assay
Species: Rat (male)
Application Route: Oral
Result: negative
Remarks: REACH data

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
REACH data

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

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

All the Jingle Ladies In Store 6248534

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	04.04.2024	300001143409	Date of first issue: 04.04.2024

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

α -hexylcinnamaldehyde:

Genotoxicity in vitro : Test Type: Ames test
Metabolic activation: with and without metabolic activation
Method: Mutagenicity (Escherichia coli - reverse mutation assay)
Result: negative

Genotoxicity in vivo : Test Type: in vivo assay
Species: Mouse
Method: Mutagenicity (micronucleus test)
Result: negative

Carcinogenicity

Not classified due to lack of data.

Components:

(R)-p-mentha-1,8-diene:

Species : Mouse, male
Application Route : Oral
NOAEL : 250 - 500 mg/kg body weight
Method : OECD Test Guideline 451
GLP : yes
Remarks : REACH data

Species : Mouse, female
Application Route : Oral
NOAEL : 500 - 1.000 mg/kg body weight
Method : OECD Test Guideline 451
GLP : yes
Remarks : REACH data

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

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

All the Jingle Ladies In Store 6248534

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	04.04.2024	300001143409	Date of first issue: 04.04.2024

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

STOT - single exposure

Not classified due to lack of data.

STOT - repeated exposure

Not classified due to lack of data.

Repeated dose toxicity

Components:

(R)-p-mentha-1,8-diene:

Species : Rat, male and female
NOAEL : 600 mg/kg
LOAEL : 150 mg/kg
Application Route : Oral
Exposure time : 90-day
Method : OECD Test Guideline 408
GLP : yes
Target Organs : Kidney
Remarks : REACH data

Species : Mouse, male and female
NOAEL : 500 mg/kg
LOAEL : 1.000 mg/kg
Application Route : Oral
Exposure time : 90-day
Method : OECD Test Guideline 408
GLP : yes
Remarks : REACH data

cis-2-tert-butylcyclohexyl acetate:

Species : Rat, female
NOAEL : \geq 423 mg/kg

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

All the Jingle Ladies In Store 6248534

Version 1.0 Revision Date: 04.04.2024 SDS Number: 300001143409 Date of last issue: -
Date of first issue: 04.04.2024

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

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

α -hexylcinnamaldehyde:

Species : Rat, male and female
NOAEL : 100 mg/kg
Application Route : Oral
Exposure time : 45 d
Method : OECD 421
GLP : yes
Remarks : Subacute toxicity

Species : Rat, male and female
LOAEL : 125 mg/kg
Application Route : Dermal
Exposure time : 90-day
Method : OECD 411
Remarks : Subchronic toxicity

Aspiration toxicity

Not classified due to lack of data.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

All the Jingle Ladies In Store 6248534

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	04.04.2024	300001143409	Date of first issue: 04.04.2024

Components:

(R)-p-mentha-1,8-diene:

May be fatal if swallowed and enters airways.

pin-2(3)-ene:

May be fatal if swallowed and enters airways.

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.

SECTION 12: Ecological information

12.1 Toxicity

Components:

(R)-p-mentha-1,8-diene:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 0,720 mg/l
Exposure time: 96 h
Test Type: flow-through test
Analytical monitoring: yes
Method: OECD Test Guideline 203
GLP: yes
Remarks: REACH data

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0,307 mg/l
Exposure time: 48 h
Test Type: semi-static test
Analytical monitoring: yes
Method: OECD Test Guideline 202
GLP: yes
Remarks: REACH data

Toxicity to algae/aquatic plants : EC50 (Raphidocelis subcapitata (freshwater green alga)): 0,32 mg/l
End point: Growth inhibition
Exposure time: 72 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 201
GLP: yes
Remarks: REACH data

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

All the Jingle Ladies In Store 6248534

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	04.04.2024	300001143409	Date of first issue: 04.04.2024

EC10 (Raphidocelis subcapitata (freshwater green alga)):
0,174 mg/l
End point: Growth inhibition
Exposure time: 72 h
Test Type: static test
Analytical monitoring: yes
Method: OECD Test Guideline 201
GLP: yes
Remarks: REACH data

M-Factor (Acute aquatic toxicity) : 1

Toxicity to microorganisms : EC50 (activated sludge): 209 mg/l
Exposure time: 3 h
Test Type: static test
Analytical monitoring: no
Method: OECD Test Guideline 209
GLP: yes
Remarks: REACH data

EC10 (activated sludge): 18 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: 0,37 mg/l
Exposure time: 8 d
Species: Pimephales promelas (fathead minnow)
Test Type: semi-static test
Analytical monitoring: yes
GLP: yes
Remarks: REACH data

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : EC10: 0,153 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

NOEC: 0,080 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

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

All the Jingle Ladies In Store 6248534

Version 1.0 Revision Date: 04.04.2024 SDS Number: 300001143409 Date of last issue: -
Date of first issue: 04.04.2024

Ecotoxicology Assessment

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

12.2 Persistence and degradability

Components:

(R)-p-mentha-1,8-diene:

Biodegradability : Test Type: aerobic
Inoculum: activated sludge
Concentration: 10 mg/l
Result: Readily biodegradable.
Biodegradation: 71,4 %
Exposure time: 28 d
Method: OECD Test Guideline 301B
GLP: yes
Remarks: REACH data

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

α -hexylcinnamaldehyde:

Biodegradability : Inoculum: activated sludge
Result: Readily biodegradable.
Biodegradation: 97 %
Exposure time: 28 d
Method: OECD 301 F

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

All the Jingle Ladies In Store 6248534

Version 1.0 Revision Date: 04.04.2024 SDS Number: 300001143409 Date of last issue: -
Date of first issue: 04.04.2024

12.3 Bioaccumulative potential

Components:

(R)-p-mentha-1,8-diene:

Bioaccumulation : Bioconcentration factor (BCF): 690,1
Method: Calculated
Remarks: The value is given based on a SAR/AAR approach using OECD Toolbox, DEREK, VEGA QSAR models (CAESAR models), etc.
REACH data

Partition coefficient: n-octanol/water : log Pow: 4,38 (37 °C)
Method: OECD Test Guideline 117
GLP: No information available.
Remarks: REACH data

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

α -hexylcinnamaldehyde:

Bioaccumulation : Remarks: No data available

Partition coefficient: n-octanol/water : log Pow: 5,3 (24 °C)
Method: OECD Test Guideline 117
GLP: yes

12.4 Mobility in soil

Product:

Mobility : Remarks: No data available

Components:

α -hexylcinnamaldehyde:

Distribution among environmental compartments : Adsorption/Soil
Medium: Soil
Koc: 15800, log Koc: 4,2
Method: OECD 121

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.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

All the Jingle Ladies In Store 6248534

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	04.04.2024	300001143409	Date of first issue: 04.04.2024

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.

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.

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

Not applicable

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

All the Jingle Ladies In Store 6248534

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	04.04.2024	300001143409	Date of first issue: 04.04.2024

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
- (R)-p-mentha-1,8-diene
α-hexylcinnamaldehyde
tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans)
citral
ethyl acetate
4-methyl-8-methylenetricyclo[3.3.1.1^{3,7}]decan-2-ol
geraniol
(S)-2-Methyl-5-(1-methylvinyl)cyclohex-2-en-1-one
(-)-pin-2(10)-ene
p-mentha-1,3-diene
4-isopropenylcyclohex-1-enecarbaldehyde
citronellal
6,10-dimethylundeca-3,5,9-trien-2-one
2-benzylideneheptanal
vanillin
eugenol
n-hexane
- 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)

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

All the Jingle Ladies In Store 6248534

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	04.04.2024	300001143409	Date of first issue: 04.04.2024

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.
H304	: May be fatal if swallowed and enters airways.
H311	: Toxic 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.
H331	: Toxic if inhaled.
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.

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

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;

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

All the Jingle Ladies In Store 6248534

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	04.04.2024	300001143409	Date of first issue: 04.04.2024

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 "Respiratory 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 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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SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

All the Jingle Ladies In Store 6248534

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	04.04.2024	300001143409	Date of first issue: 04.04.2024
