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

1.1 Product identifier

Sales No. CITRUS VERBENA

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

Intended Use Fragrances : Perfume compound

1.3 Details of the supplier of the safety data sheet

Company

Givaudan Fragrances (Guangzhou) Ltd.

East Section of GETDD No.66, Honging Road **GUANGZHOU**

510760 GUANGDONG

CHINA

Telephone +862062985000 Telefax +862062985010

E-mail address

Responsible/issuing person

Legal Entity : Givaudan France SAS

> 55 Voie des Bans F-95102 ARGENTEUIL

1.4 Emergency telephone number

Givaudan 24/7 call : +8653283889090

Please refer to section 16 for a full list of emergency phone numbers, from Givaudan's 24/7

provider.

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.

Eye irritation, Category 2 H319: Causes serious eye irritation.

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

Long-term (chronic) aquatic hazard, H411: Toxic to aquatic life with long lasting effects.

Category 2

Administrative information:

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2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms





Signal word : Warning

Hazard statements : H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements : Prevention:

P261 Avoid breathing mist or vapours.
P264 Wash skin thoroughly after handling.
P273 Avoid release to the environment.

P280 Wear protective gloves/ eye protection/ face

protection.

Response:

P333 + P313 If skin irritation or rash occurs: Get medical

advice/ attention.

P391 Collect spillage.

Hazardous components which must be listed on the label:

 2-acetyl-1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetra-methylnaphtalene

(main isomer)

Oils, Lemon 8008-56-8
 (R)-p-mentha-1,8-diene 5989-27-5
 3,7-dimethylnona-1,6-dien-3-ol (cis & 10339-55-6

trans)

geraniol 106-24-1
 3,7-dimethyl-2,6-octadien-1-ol (= 106-25-2

nerol)

linalool 78-70-62-hexyl-3-phenyl-2-propenal (trans & 101-86-0

cis)

• 2-methyl-3-(4- 103-95-7

isopropylphenyl)propanal

citral 5392-40-53,7-dimethyl-1,6-octadien-3-yl 115-95-7

acetate (= linalyl acetate)

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• 3,7-dimethyl-6-octen-1-ol (= 106-22-9

citronellol)

I-carvone 6485-40-12,4-dimethylcyclohex-3-ene-1- 68039-49-6

carbaldehvde

cis-hex-3-en-1-yl methyl carbonate 67633-96-9

2.3 Other hazards

Hazards not Otherwise : May cause phototoxicity.

Classified.

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.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous components

Chemical name	CAS-No. EC-No. Registration number	Classification (REGULATION (EC) No 1272/2008)	Concentration [Percent by weight]
2-acetyl-1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetra-methylnaphtalene (main isomer)	54464-57-2 915-730-3 01-2119489989-04	Skin Irrit. 2; H315 Skin Sens. 1B; H317 Aquatic Chronic 1; H410 M-Factor (Chronic aquatic toxicity): 1 Acute toxicity	>= 20 - < 25

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		estimate	
		Acute oral toxicity: > 5 000,00 mg/kg Acute dermal toxicity: > 5 000,00 mg/kg	
Oils, Lemon	8008-56-8 84929-31-7 284-515-8 01-2119495512-35	Flam. Liq. 3; H226 Skin Irrit. 2; H315 Skin Sens. 1; H317 Asp. Tox. 1; H304 Aquatic Chronic 2; H411	>= 2,5 - < 5
		Acute toxicity estimate	
		Acute dermal toxicity: > 5 000,00 mg/kg	
(R)-p-mentha-1,8-diene	5989-27-5 227-813-5 01-2119529223-47	Flam. Liq. 3; H226 Skin Irrit. 2; H315 Skin Sens. 1B; H317 Asp. Tox. 1; H304 Aquatic Acute 1; H400 Aquatic Chronic 3; H412 ————————————————————————————————————	>= 2,5 - < 5
tetrahydro-2-isobutyl-4-methylpyran- 4-ol, mixed isomers (cis and trans)	63500-71-0 405-040-6 01-0000015458-64	Acute toxicity estimate Acute oral toxicity:	>= 1 - < 5
3,7-dimethylnona-1,6-dien-3-ol (cis & trans)	10339-55-6 233-732-6 01-2119969272-32	> 5 000,00 mg/kg Eye Irrit. 2; H319 Skin Sens. 1B; H317	>= 1 - < 5

Administrative information:

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		Acute toxicity estimate Acute oral toxicity:	
		> 5 000,00 mg/kg Acute dermal toxicity: > 5 000,00 mg/kg	
2,6-dimethyl-7-octen-2-ol	18479-58-8 242-362-4 01-2119457274-37	Skin Irrit. 2; H315 Eye Irrit. 2; H319 STOT SE 3; H336 (Central nervous system)	>= 1 - < 5
		Acute toxicity estimate	
		Acute oral toxicity: 3 600,00 mg/kg	
geraniol	106-24-1 203-377-1 01-2119552430-49	Skin Irrit. 2; H315 Eye Dam. 1; H318 Skin Sens. 1; H317	>= 1 - < 3
		Acute toxicity estimate	
		Acute oral toxicity: 3 600,00 mg/kg Acute dermal toxicity: > 5 000,00 mg/kg	
3,7-dimethyl-2,6-octadien-1-ol (= nerol)	106-25-2 203-378-7 01-2119983244-33	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1B; H317	>= 1 - < 5
		Acute toxicity estimate	
		Acute oral toxicity: 4 500,00 mg/kg	
linalool	78-70-6 201-134-4 01-2119474016-42	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1B; H317	>= 1 - < 5
		Acute toxicity estimate	

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		Acute oral toxicity: 2 790,00 mg/kg	
2-hexyl-3-phenyl-2-propenal (trans & cis)	101-86-0 165184-98-5 639-566-4 01-2119533092-50	Skin Sens. 1B; H317 Aquatic Acute 1; H400 Aquatic Chronic 2; H411 M-Factor (Acute aquatic toxicity): 1 Acute toxicity estimate Acute oral toxicity: 3 100,00 mg/kg	>= 0,25 - < 1
2-methyl-3-(4- isopropylphenyl)propanal	103-95-7 203-161-7 01-2119970582-32	Skin Irrit. 2; H315 Skin Sens. 1B; H317 Aquatic Chronic 3; H412	>= 0,25 - < 1
citral	5392-40-5 226-394-6 01-2119462829-23	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1; H317 ————————————————————————————————————	>= 0,1 - < 1
3,7-dimethyl-1,6-octadien-3-yl acetate (= linalyl acetate)	115-95-7 204-116-4 01-2119454789-19	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1B; H317 ————————————————————————————————————	>= 0,1 - < 1
3,7-dimethyl-6-octen-1-ol (= citronellol)	106-22-9 203-375-0	Skin Irrit. 2; H315 Eye Irrit. 2; H319	>= 0,1 - < 1

Administrative information:

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	01-2119453995-23	Skin Sens. 1B; H317 ————————————————————————————————————	
2,6-bis(1,1-dimethylethyl)-4-methylphenol	128-37-0 204-881-4 01-2119565113-46	Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 1 Acute toxicity estimate Acute dermal	>= 0,1 - < 0,25
		toxicity: > 5 000,00 mg/kg	
I-carvone	6485-40-1 99-49-0 229-352-5 01-2119962458-25	Skin Sens. 1B; H317 ————————————————————————————————————	>= 0,1 - < 1
2,4-dimethylcyclohex-3-ene-1-carbaldehyde	68039-49-6 943-728-2 01-2119982384-28	Skin Irrit. 2; H315 Skin Sens. 1; H317 Aquatic Chronic 2; H411 Acute toxicity estimate Acute oral toxicity: > 3 100,00 mg/kg Acute dermal toxicity: 5 000,00	>= 0,1 - < 0,25

Administrative information:

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		mg/kg	
cis-hex-3-en-1-yl methyl carbonate	67633-96-9 266-797-4 01-2120735800-60	Skin Sens. 1B; H317	>= 0,1 - < 1
Substances with a workplace exposu	ure limit :		
(2-Methoxymethylethoxy)propanol	34590-94-8 252-104-2 01-2119450011-60	Acute toxicity estimate Acute oral toxicity: 5 130,00 mg/kg Acute dermal toxicity: 19 000,00 mg/kg	>= 20 - < 30

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice : Do not leave the victim unattended.

Move out of dangerous area.

Show this safety data sheet to the doctor in attendance.

If inhaled : If unconscious, place in recovery position and seek medical

advice.

If symptoms persist, call a physician.

In case of skin contact : If on skin, rinse well with water.

If on clothes, remove clothes.

Immediately seek medical attention if chemical entered ear

canal.

If skin irritation persists, call a physician.

In case of eye contact : Protect unharmed eye.

Remove contact lenses.

Immediately flush eye(s) with plenty of water.

Keep eye wide open while rinsing.

If eye irritation persists, consult a specialist.

If swallowed : Immediately consult Poison Control Center or physician.

Keep respiratory tract clear. Do NOT induce vomiting.

Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

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If symptoms persist, call a physician.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms : no data available Risks : Causes skin irritation.

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 : Use water spray, alcohol-resistant foam, dry chemical or

carbon dioxide.

Unsuitable extinguishing

media

: High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during : Do no

firefighting

: Do not allow run-off from fire fighting to enter drains or water

courses.

5.3 Advice for firefighters

Special protective equipment

for firefighters

: Wear self-contained breathing apparatus for firefighting if

necessary.

Further information : Collect contaminated fire extinguishing water separately. This

must not be discharged into drains.

Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Keep people away from and upwind of spill/leak.

For emergency conditions, use an approved positive-pressure

self-contained breathing apparatus.

Material can create slippery conditions.
Use personal protective equipment.

Administrative information:

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6.2 Environmental precautions

: Prevent product from entering drains. Environmental precautions

If the product contaminates rivers and lakes or drains inform

respective authorities.

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up : Clean contaminated floors and objects thoroughly while

observing environmental regulations.

Soak up with inert absorbent material (e.g. sand, silica gel,

acid binder, universal binder, sawdust).

Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

Not applicable

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling Do not breathe vapours/dust.

Avoid exposure - obtain special instructions before use.

Avoid contact with skin and eyes. For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the

application area.

Dispose of rinse water in accordance with local and national

regulations.

Advice on protection against

fire and explosion

: Normal measures for preventive fire protection.

Temperature class : no data available Fire-fighting class : no data available Dust explosion class : no data available

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage

areas and containers

: Keep container tightly closed in a dry and well-ventilated

place.

Containers which are opened must be carefully resealed and

kept upright to prevent leakage.

Electrical installations / working materials must comply with

the technological safety standards.

Further information on

: Ambient / 10-30℃ (50-85℃)

storage conditions

Dry, well ventilated, preferably full, hermetically sealed

Advice on common storage : Protect against light.

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Storage class (TRGS 510) : 10 Combustible liquids

Other data : No decomposition if stored and applied as directed.

7.3 Specific end use(s)

Specific use(s) : no data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Components	CAS-No	o. Value	Control parameters	Update	Basis
(2- Methoxymethyletho anol	0xy)prop 34590- 94-8	TWA	50 ppm 308 mg/m3	2000-06-16	2000/39/E C
Further : skin: Identifies the possibility of significant uptake through the skin Indicative				n	

8.2 Exposure controls

Exposure assessment: Exposures are dependent on the product being handled, the potential for chemical release, and any resulting airborne concentrations or dermal contact. Since product handling and release scenarios vary, and no two workplaces are exactly alike, it is recommended that the potential for exposure be assessed prior to the prod-uct's use or introduction. Exposure assessments should be performed by an occupational hygienist, industrial hygienist, or other qualified occupational or environmental health professional. An exposure assessment should be conducted to determine the efficacy of any ventilation and the need for additional PPE. The PPE indicated below are recommendations for worst-case scenario exposures. An exposure assessment will identify more applicable measures to be implemented. EN and ANSI standards are mentioned in the following recommendations, consult equivalent local standards when required.

PPE is always the last resort to avoid exposure. In any case technical and organisational measures have to be explored and used prior to the selection of PPE. The PPE selection is for operators trained to work with chemicals according to good industrial hygiene and safety practice. Operators have to be trained on the use of PPE.

8.2.1 Engineering measures

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Use engineering controls to maintain airborne levels below exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, use the product only with adequate ventilation.

8.2.2 Personal protective equipment

Eye/face protection : Use safety goggles and faceshield tested according to EN

166/ ANSI Z87.1 or equivalent local standard.

Hand protection : Use gloves when handling substance in open systems.

Inspect gloves prior to use. Train operators for proper use. If only incidental exposure is expected: (work without direct contact to substance) use gloves tested according EN 16523-1/ASTM F739 or equivalent local standard breakthrough times at least 10 minutes, tested for chemicals indicated in chapter 3

of this SDS. Change gloves frequently.

If direct skin contact is expected: use gloves tested according to EN 16523-1/ASTM F739 or equivalent local standard, tested for chemicals indicated in chapter 3 of this SDS.

Permeation time must exceed contact time.

Other skin protection : Wear working clothes covering arms and legs.

The type of protective equipment must be selected according to the concentration and amount of the hazardous substance at the specific workplace. Use apron and sleeve covers or

complete chemical suit if exposure is expected.

Respiratory protection : Respiratory protection should be worn when workplace

exposures exceed exposure limit requirements or guidelines. If there are no applicable exposure limits or guidelines, use an approved respirator where there is a potential for adverse effects, including but not limited to respiratory irritation or odor, or where indicated by the exposure assessment. Selection of air-purifying or positive-pressure supplied-air will depend on the results of the exposure assessment which includes an evaluation of the specific operations and the potential airborne concentrations. For emergency conditions, use an approved positive-pressure self-contained breathing apparatus.

In case a risk analysis proved the cartridge respirator as

acceptable, use type:

ABEK-P3 (EN 14387) OR Combination Multi-gas/P100 (42CFR84.193; ANSI Z88.7 or equivalent local standard) as a

backup to engineering controls.

In absence of engineering controls, use self-contained breathing apparatus or full face supplied air respirators. Use respirators and components tested and approved under appropriate government standards such as CEN (EU) or

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NIOSH 42 CFR 84(US).

Thermal hazards : Wear appropriate thermal protective clothing, when

necessary.

: Remove contaminated clothing and protective equipment Hygiene measures

before entering eating areas.

Do not eat, drink or smoke during work.

Wash hands any time after handling the product.

8.2.3 Environmental exposure controls

General advice : Prevent product from entering drains.

If the product contaminates rivers and lakes or drains inform

respective authorities.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state : liquid Form : liquid

Colour : colorless to Pale yellow

Taste : not determined

Odour : Citrus-like, Floral, Green

Odour Threshold : Not applicable

Flash point : 76 °C Method: Grabner miniflash closed cup

Lower explosion limit : not determined Upper explosion limit : not determined Flammability : Not applicable : no data available Particle size Oxidizing properties : no data available
Auto-ignition temperature : not determined
Decomposition temperature : no data available : not determined pΗ

pH : not determined

Vapour pressure : 0,2946 hPa at 20 ℃ Calculated (99,8 %)

Density : 944,29 kg/m3 at 20 ℃

Bulk density : Not applicable

Water solubility : not determined

Solubility/qualitative : practically insoluble

Partition coefficient: n- : Not applicable

octanol/water

Viscosity, kinematic Relative vapour density : no data available : no data available Evaporation rate : no data available Explosive properties : no data available

9.2 Other information

Administrative information:

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Not applicable

SECTION 10: Stability and reactivity

10.1 Reactivity

No decomposition if stored and applied as directed.

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions : No decomposition if stored and applied as directed.

10.4 Conditions to avoid

Conditions to avoid : no data available

10.5 Incompatible materials

Materials to avoid : Not applicable

10.6 Hazardous decomposition products

Hazardous decomposition

products

: no data available

Thermal decomposition : no data available

SECTION 11: Toxicological information

Acute toxicity

Acute oral toxicity : No data is available on the product itself.

Acute oral toxicity

2-acetyl-1,2,3,4,5,6,7,8octahydro-2,3,8,8-tetra-

methylnaphtalene (main

isomer)

(R)-p-mentha-1,8-diene : LD50: 5 600 mg/kg Species: Mouse

: LD50: > 5 000 mg/kg

tetrahydro-2-isobutyl-4methylpyran-4-ol, mixed

isomers (cis and trans)

: LD50: > 5 000 mg/kg Species: Rat

Species: Rat

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3,7-dimethylnona-1,6-dien-3- : LD50: > 5 000 mg/kg Species: Rat

ol (cis & trans)

2,6-dimethyl-7-octen-2-ol : LD50: 3 600 mg/kg Species: Rat

geraniol : LD50: 3 600 mg/kg Species: Rat

3,7-dimethyl-2,6-octadien-1-: LD50: 4 500 mg/kg Species: Rat

ol (= nerol)

linalool Species: Rat : LD50: 2 790 mg/kg

2-hexyl-3-phenyl-2-propenal : LD50: 3 100 mg/kg Species: Rat

(trans & cis)

citral : LD50: 4 960 mg/kg Species: Rat

3,7-dimethyl-1,6-octadien-3-: LD50: 13 934 mg/kg Species: Rat

yl acetate (= linalyl acetate)

3,7-dimethyl-6-octen-1-ol (= : LD50: 3 450 mg/kg Species: Rat

citronellol)

2,4-dimethylcyclohex-3-ene-: LD50: > 3 100 mg/kgSpecies: Rat

1-carbaldehyde

: LD50: 5 130 mg/kg Species: Rat

Methoxymethylethoxy)propa

Acute inhalation toxicity : No data is available on the product itself.

Acute dermal toxicity : No data is available on the product itself.

Acute dermal toxicity

2-acetyl-1,2,3,4,5,6,7,8-: LD50: > 5 000 mg/kg Species: Rabbit

octahydro-2,3,8,8-tetramethylnaphtalene (main

isomer)

Oils, Lemon : LD50: > 5 000 mg/kg Species: Rabbit

(R)-p-mentha-1,8-diene : LD50: > 5 000 mg/kg Species: Rabbit

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3,7-dimethylnona-1,6-dien-3- : LD50: > 5 000 mg/kg Species: Rabbit

ol (cis & trans)

geraniol : LD50: > 5000 mg/kgSpecies: Rabbit

citral Species: Rabbit : LD50: 2 250 mg/kg

3,7-dimethyl-1,6-octadien-3-: LD50: > 5 000 mg/kg Species: Rabbit

yl acetate (= linalyl acetate)

3,7-dimethyl-6-octen-1-ol (= : LD50: 2 650 mg/kg Species: Rabbit

citronellol)

2,6-bis(1,1-dimethylethyl)-4-: LD50: > 5 000 mg/kg Species: Rabbit

methylphenol

I-carvone : LD50: 3 800 mg/kg Species: Rabbit

2,4-dimethylcyclohex-3-ene-: LD50: 5 000 mg/kg Species: Rabbit

1-carbaldehyde

: LD50: 19 000 mg/kg Species: Rabbit

Methoxymethylethoxy)propa

nol

Acute toxicity (other routes : No data is available on the product itself.

of administration)

Skin corrosion/irritation Skin irritation : May cause skin irritation and/or dermatitis.

Serious eye damage/eye irritation

Eye irritation : Vapours may cause irritation to the eyes, respiratory system

and the skin.

Respiratory or skin sensitisation

Sensitisation : No data is available on the product itself.

Germ cell mutagenicity

Germ cell mutagenicity : No data is available on the product itself.

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Carcinogenicity

Carcinogenicity : No data is available on the product itself.

Reproductive toxicity

Not classified due to lack of data.

Target Organ Systemic Toxicant - Single exposure

Target Organ Systemic

: No data is available on the product itself.

Toxicant - Single exposure

Target Organ Systemic Toxicant - Repeated exposure

Target Organ Systemic

Toxicant - Repeated

exposure

: No data is available on the product itself.

Aspiration hazard

Aspiration toxicity : No data is available on the product itself.

Phototoxicity

Phototoxicity : No data is available on the product itself.

Further information : no data available

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.

Further information

Product:

Remarks : no data available

Administrative information:

Report Information: SDS_EU/EN/GHS_SDS_EU_REGION/41 Sales & Distribution Information: GZ03/FR/CN13/01 Shipping Order Information: 33 749 957/29 437 260

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SECTION 12: Ecological information

12.1 Toxicity

Components:

alpha-hexylcinnamaldehyde:

M-Factor (Acute aquatic

toxicity)

2,6-di-tert-butyl-p-cresol:

M-Factor (Acute aquatic

toxicity)

: 1

M-Factor (Chronic aquatic

toxicity)

12.2 Persistence and degradability

no data available

12.3 Bioaccumulative potential

no data available

12.4 Mobility in soil

no data available

12.5 Results of PBT and vPvB assessment

Product:

: This substance/mixture contains no components considered Assessment

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

: An environmental hazard cannot be excluded in the event of

unprofessional handling or disposal.

Toxic to aquatic life with long lasting effects.

Administrative information:

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SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Send to a licensed waste management company.

Dispose of in accordance with local, state and federal

regulations.

The product should not be allowed to enter drains, water

courses or the soil.

Do not contaminate ponds, waterways or ditches with

chemical or used container.

Contaminated packaging : Do not expose containers to high temperatures such as in hot

work processes.

Empty remaining contents.
Dispose of as unused product.
Do not re-use empty containers.

Dispose of in accordance with local regulations.

SECTION 14: Transport information

14.1 UN number

 ADR
 : UN 3082

 RID
 : UN 3082

 IMDG
 : UN 3082

 IATA
 : UN 3082

14.2 UN proper shipping name

ADR : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(EXTRACTS, LIQUID)

RID : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(EXTRACTS, LIQUID)

IMDG : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(EXTRACTS, LIQUID)

IATA : Environmentally hazardous substance, liquid, n.o.s.

(Extracts, liquid)

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14.3 Transport hazard class(es)

 ADR
 : 9

 RID
 : 9

 IMDG
 : 9

 IATA
 : 9

14.4 Packing group

14.5 Environmental hazards

ADR

Environmentally hazardous : yes

RID

Environmentally hazardous : yes

IMDG

Marine pollutant : yes

IATA (Passenger)

Environmentally hazardous : yes

IATA (Cargo)

Environmentally hazardous : yes

14.6 Special precautions for user

ADR

Tunnel restriction code : (-)

IMDG

IMDG Code Segregation : None

Group

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 - Candidate List of Substances of Very High : Neither banned nor restricted

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Concern for Authorisation (Article 59).

Major Accident Hazard : ENVIRONMENTAL HAZARDS

Legislation E2

Quantity 1: 200 t Quantity 2: 500 t

Water hazard class : WGK 3 highly hazardous to water

(Germany) Classification according to AwSV, Annex 1 (5.2)

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.

H304 : May be fatal if swallowed and enters airways.

H315 : Causes skin irritation.

H317
H318
Causes serious eye damage.
H319
Causes serious eye irritation.
H336
May cause drowsiness or dizziness.

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 list of Emergency response numbers worldwide.

	Country	Phone nr		Country	Phone nr
	All Europe	+44 1235 239670		All East/South East Asia	+65 3158 1074
	France	+33 1 72 11 00 03		Sri Lanka	+65 3158 1195
	Germany	+49 89 220 61012		Taiwan	+886 2 8793 3212
	Spain	+34 91 114 2520	APAC	Japan	0120 015 230
Europe	Italy	800 699 792		Indonesia	007 803 011 0293
Europe	Netherlands	+31 10 713 8195		Malaysia	+60 3 6207 4347
	Turkey	0800 621 2139 +44 1235 239670		Thailand	001 800 120 666 751
	Norway	+47 2103 4452		India	+65 3158 1198 000 800 100 7479
	Greece	+30 21 1198 3182		Pakistan	+65 3158 1329
	Portugal	+351 30880 4750		Bangladesh	+65 3158 1200

Administrative information:

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	Denmark	+45 8988 2286		Philippines	+63 2 8231 2149
	Sweden	+46 8 566 42573		Vietnam	+84 28 4458 2388
	Poland	+48 22 307 3690		Korea	+65 3158 1285
	Czech replublic	+420 228 882 830		South Korea	+82 2 3479 8401
	Finland	+358 9 7479 0199		Australia	+61 2 8014 4558
	All Middle East/Africa	+44 1235 239671		New Zealand	+64 9 929 1483
Middle East/Africa	Bahrain and Middle East	+44 1235 239671		China	+86 532 8388 9090
	Africa/South Africa	+27 21 300 2732		Mexico	+52 55 5004 8763
	USA and Canada	+1 866 928 0789		Brazil	+55 11 3197 5891
NOAM	USA and Canada	+1 215 207 0061	LATAM	Chile	+56 2 2582 9336
	USA and Canada	+1 202 464 2554		Colombia	+57 1 508 7337
Global	Global	+44 1865 407333		Argentina	+54 11 5984 3690

Administrative information:

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Key or legend to abbreviations and acronyms used in the safety data sheet

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

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.

according to Regulation (EC) No. 1907/2006

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Information displayed in section 3 (Composition/information on ingredients) is additional information to understand the hazards of the product and ensure safe handling, storage and transportation. This information, including CAS numbers, is not meant to be used for registration, notification or any other purposes. Any additional information and documentation needed may be provided by Givaudan.

Administrative information:

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