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

1.1 Product identifier

Sales No. : UAE22332/00
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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 Corp.
300 Waterloo Valley Road
International Trade Center
MOUNT OLIVE NJ 07828
UNITED STATES OF AMERICA

Telephone : +12152070061
Telefax : +19734486523
E-mail address : global.msds_fragrances_raps@givaudan.com
Responsible/issuing person

1.4 Emergency telephone number

+18669280789
Please refer to section 16 for a full list of emergency phone numbers.

SECTION 2. Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

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 :



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Signal word	:	Warning	
Hazard statements	:	H317 H411	May cause an allergic skin reaction. Toxic to aquatic life with long lasting effects.
Precautionary statements	:	Prevention: P261 P273 P280 Response: P333 + P313 P362 + P364 P391	Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray. Avoid release to the environment. Wear protective gloves. If skin irritation or rash occurs: Get medical advice/ attention. Take off contaminated clothing and wash it before reuse. Collect spillage.

Hazardous components which must be listed on the label:

- 3-(4-tert-butylphenyl)-2-methylpropanal 80-54-6
- (R)-p-mentha-1,8-diene 5989-27-5
- linalool 78-70-6
- 2-acetyl-1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetra-methylnaphthalene (main isomer) 54464-57-2
- 3,7-dimethyl-1,6-octadien-3-yl acetate (= linalyl acetate) 115-95-7
- 3-(3,4-Methylene dioxyphenyl)-2-methylpropanal 1205-17-0
- Bicyclo[3.1.1]heptane, 6,6-dimethyl-2-methylene- (= Beta-pinene) 127-91-3
- 2-(1-(3,3-dimethylcyclohexyl)ethoxy)-2-methyl-propyl cyclopropanecarboxylate 477218-42-1
- citral 5392-40-5
- 1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one 57378-68-4
- 2,4-dimethylcyclohex-3-ene-1-carbaldehyde 68039-49-6
- 2,6,6-trimethyl-Bicyclo[3.1.1]hept-2-ene (= alpha-pinene) 80-56-8
- 2,2-dimethyl-3-(4(2)-ethylphenyl)propanal 67634-15-5

2.3 Other hazards

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Hazards not Otherwise Classified : None

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.

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]
3-(4-tert-butylphenyl)-2-methylpropanal	80-54-6 201-289-8 01-2119485965-18	Acute Tox. 4; H302 Skin Irrit. 2; H315 Skin Sens. 1B; H317 Repr. 2; H361 Aquatic Chronic 3; H412	>= 1 - < 2,5
(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 1; H410	>= 1 - < 2,5
linalool	78-70-6 201-134-4 01-2119474016-42	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1B; H317	>= 1 - < 5
2-acetyl-1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetra-methylnaphthalene (main isomer)	54464-57-2 915-730-3 01-2119489989-04	Skin Irrit. 2; H315 Skin Sens. 1B; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 1 - < 2,5

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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
1-(3,5,5,6,8,8-Hexamethyl-5,6,7,8-tetrahydronaphthalen-2-yl)ethanone	1506-02-1 216-133-4 01-2119539433-40	Acute Tox. 4; H302 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 0,25 - < 1
3-(3,4-Methylene dioxyphenyl)-2-methylpropanal	1205-17-0 214-881-6 01-2120740119-58	Skin Sens. 1B; H317 Repr. 2; H361 Aquatic Chronic 2; H411	>= 0,25 - < 1
1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran	1222-05-5 214-946-9 01-2119488227-29	Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 0,25 - < 1
Bicyclo[3.1.1]heptane, 6,6-dimethyl-2-methylene- (= Beta-pinene)	127-91-3 204-872-5 01-2119519230-54	Flam. Liq. 3; H226 Skin Irrit. 2; H315 Skin Sens. 1B; H317 Asp. Tox. 1; H304 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 0,25 - < 1
2-(1-(3,3-dimethylcyclohexyl)ethoxy)-2-methyl-propyl cyclopropanecarboxylate	477218-42-1 460-490-0 01-0000019501-77	Skin Sens. 1B; H317 Aquatic Chronic 1; H410	>= 0,1 - < 0,25
citral	5392-40-5 226-394-6 01-2119462829-23	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1B; H317	>= 0,1 - < 1

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1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one	57378-68-4 71048-82-3 260-709-8 275-156-8 01-2119535122-53	Acute Tox. 4; H302 Skin Irrit. 2; H315 Skin Sens. 1A; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 0,1 - < 0,25
2,4-dimethylcyclohex-3-ene-1-carbaldehyde	68039-49-6 943-728-2 01-2119982384-28	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1B; H317 Aquatic Chronic 2; H411	>= 0,1 - < 0,25
2,6,6-trimethyl-Bicyclo[3.1.1]hept-2-ene (= alpha-pinene)	80-56-8 7785-70-8 201-291-9 232-087-8 01-2119519223-49	Flam. Liq. 3; H226 Acute Tox. 4; H302 Skin Irrit. 2; H315 Skin Sens. 1B; H317 Asp. Tox. 1; H304 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 0,1 - < 0,25
2-propenyl (cyclohexyloxy)acetate	68901-15-5 272-657-3 01-2120770514-54	Acute Tox. 4; H302 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 0,1 - < 0,25
2,2-dimethyl-3-(4(2-ethylphenyl)propanal	67634-15-5 67634-14-4 916-329-6 01-2120758796-34	Skin Irrit. 2; H315 Skin Sens. 1B; H317 Aquatic Acute 1; H400 Aquatic Chronic 2; H411	>= 0,1 - < 0,25

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 : Move out of dangerous area.

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Show this safety data sheet to the doctor in attendance.
Do not leave the victim unattended.

- 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.
- In case of eye contact : Remove contact lenses.
Immediately flush eyes for at least 15 minutes. Get medical attention.
- If swallowed : Keep respiratory tract clear.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician.

4.2 Most important symptoms and effects, both acute and delayed

- Symptoms : no data available
Risks : no data available

4.3 Indication of any immediate medical attention and special treatment needed

- Treatment : no data available

SECTION 5. Firefighting measures

5.1 Extinguishing media

- Suitable extinguishing media : Dry chemical
Alcohol-resistant foam
Carbon dioxide (CO₂)
Water spray

- Unsuitable extinguishing media : High volume water jet

5.2 Special hazards arising from the substance or mixture

- Specific hazards during 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

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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 : no data available

6.2 Environmental precautions

Environmental precautions : Prevent product from entering drains.
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 : 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.

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Electrical installations / working materials must comply with the technological safety standards.

Further information on storage conditions : Ambient / 10-30°C (50-85°F)
Advice on common storage : Dry, well ventilated, preferably full, hermetically sealed
German storage class : Protect against light.
Other data : no data available
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

Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Personal protective equipment

Respiratory protection : Use only in well-ventilated areas.
In case a risk analysis proved the cartridge respirator as acceptable, use type:
ABEK-P3 (EN 14387) respirator cartridges 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).

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 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, tested for chemicals indicated in chapter 3 of this SDS. Permeation time must exceed contact time.

Eye protection : Use safety glasses and faceshield tested according to EN 166.

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- Skin and body protection : Wear working clothes covering arms and legs.
The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Use apron or complete chemical suit if exposure is expected.
- Hygiene measures : Do not eat, drink or smoke during work.
Wash and dry hands after finished working.
- Protective measures : Exposure assessment: Exposure is 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 product'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 respiratory protection.
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 and used to PPE handling.

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 : Almost colorless to Very slightly yellow
Taste : not determined
Odour : Citrus-like, fruity, Floral
Odour Threshold : Not applicable
Flash point : 82 °C Method: Grabner miniflash closed cup
Lower explosion limit : not determined
Upper explosion limit : not determined
Flammability (solid, gas) : Not applicable

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Oxidizing properties	: no data available
Auto-ignition temperature	: not determined
Decomposition temperature	: no data available
pH	: not determined
Melting point	: not determined
Boiling point	: not determined
Vapour pressure	: 0,1831 hPa at 20 °C Calculated (99,9 %)
Density	: 982,22 kg/m3 at 20 °C
Bulk density	: Not applicable
Water solubility	: not determined
Solubility/qualitative	: practically insoluble
Partition coefficient: n-octanol/water	: Not applicable
Viscosity, kinematic	: no data available
Relative vapour density	: no data available
Evaporation rate	: no data available
Explosive properties	: no data available

9.2 Other information

Not applicable

SECTION 10. Stability and reactivity

10.1 Reactivity

none

10.2 Chemical stability

The product is chemically stable.

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 : no data available

10.6 Hazardous decomposition products

Hazardous decomposition products : no data available
Thermal decomposition : no data available

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SECTION 11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Acute oral toxicity : Acute toxicity estimate
Dose: > 2 000 mg/kg
Method: Calculation method

Acute oral toxicity

3-(4-tert-butylphenyl)-2-methylpropanal	: LD50: 1 390 mg/kg	Species: Rat
(R)-p-mentha-1,8-diene	: LD50: 5 600 mg/kg	Species: Mouse
linalool	: LD50: 2 790 mg/kg	Species: Rat
2-acetyl-1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethylnaphthalene (main isomer)	: LD50: > 5 000 mg/kg	Species: Rat
3,7-dimethyl-1,6-octadien-3-yl acetate (= linalyl acetate)	: LD50: 13 934 mg/kg	Species: Rat
1-(3,5,5,6,8,8-Hexamethyl-5,6,7,8-tetrahydronaphthalen-2-yl)ethanone	: LD50: 570 mg/kg	Species: Rat
3-(3,4-Methylene dioxyphenyl)-2-methylpropanal	: LD50: 3 561 mg/kg	Species: Rat
1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one	: LD50: 1 821 mg/kg	Species: Mouse
2,6,6-trimethyl-Bicyclo[3.1.1]hept-2-ene (= alpha-pinene)	: LD50: 3 700 mg/kg	Species: Rat
2-propenyl (cyclohexyloxy)acetate	: LD50: 620 mg/kg	Species: Rat
2,2-dimethyl-3-(4(2)-ethylphenyl)propanal	: LD50: > 5 000 mg/kg	Species: Rat

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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 (R)-p-mentha-1,8-diene	:	LD50: > 5 000 mg/kg	Species: Rabbit
2-acetyl-1,2,3,4,5,6,7,8- octahydro-2,3,8,8-tetra- methylnaphthalene (main isomer)	:	LD50: > 5 000 mg/kg	Species: Rabbit
3,7-dimethyl-1,6-octadien-3- yl acetate (= linalyl acetate)	:	LD50: > 5 000 mg/kg	Species: Rabbit
1-(3,5,5,6,8,8-Hexamethyl- 5,6,7,8- tetrahydronaphthalen-2- yl)ethanone	:	LD50: 7 940 mg/kg	Species: Rabbit
		LD50: > 5 000 mg/kg	Species: Rabbit
		LD50: 7 940 mg/kg	Species: Rat
citral	:	LD50: 2 250 mg/kg	Species: Rabbit
2,4-dimethylcyclohex-3-ene- 1-carbaldehyde	:	LD50: 5 000 mg/kg	Species: Rabbit
2,2-dimethyl-3-(4(2)- ethylphenyl)propanal	:	LD50: > 5 000 mg/kg	Species: Rabbit
Acute toxicity (other routes of administration)	:	No data is available on the product itself.	
Skin corrosion/irritation Skin irritation	:	May cause skin irritation and/or dermatitis.	
Serious eye damage/eye irritation Eye irritation	:	No data is available on the product itself.	
Respiratory or skin sensitisation Sensitisation	:	No data is available on the product itself.	

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Germ cell mutagenicity

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

Carcinogenicity

Carcinogenicity : No data is available on the product itself.

Reproductive toxicity

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

Target Organ Systemic Toxicant - Single exposure

Target Organ Systemic Toxicant - Single exposure : No data is available on the product itself.

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

SECTION 12. Ecological information

12.1 Toxicity

Toxicity to fish : no data available

Toxicity to daphnia and other aquatic invertebrates : no data available

Toxicity to algae : no data available

M-Factor

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

M-Factor

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

octahydro-2,3,8,8-tetramethylnaphthalene (main isomer)

M-Factor

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1-(3,5,5,6,8,8-Hexamethyl-5,6,7,8-tetrahydronaphthalen-2-yl)ethanone M-Factor	: 1
1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran M-Factor	: 1
Bicyclo[3.1.1]heptane, 6,6-dimethyl-2-methylene (= Beta-pinene) M-Factor	: 1
2-(1-(3,3-dimethylcyclohexyl)ethoxy)-2-methyl-propyl cyclopropanecarboxylate M-Factor	: 1
1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one M-Factor	: 1
2,4-dimethylcyclohex-3-ene-1-carbaldehyde M-Factor	: 1
2,6,6-trimethyl-Bicyclo[3.1.1]hept-2-ene (= alpha-pinene) M-Factor	: 1
2-propenyl (cyclohexyloxy)acetate M-Factor	: 1
2,2-dimethyl-3-(4(2)-ethylphenyl)propanal	: 1
Toxicity to bacteria	: no data available
Toxicity to fish (Chronic toxicity)	: no data available
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	: no data available
Short-term (acute) aquatic hazard	: no data available
Long-term (chronic) aquatic hazard	: no data available
Toxicity Data on Soil	: no data available
Other organisms relevant to the environment	: no data available

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12.2 Persistence and degradability

Biodegradability : no data available

12.3 Bioaccumulative potential

Bioaccumulation : no data available

12.4 Mobility in soil

Mobility : no data available

Distribution among environmental compartments : no data available

Additional advice : no data available

Environmental fate and pathways

Physico-chemical removability : no data available

12.5 Results of PBT and vPvB assessment

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

12.6 Other adverse effects

Biochemical Oxygen Demand (BOD) : no data available

Dissolved organic carbon (DOC) : no data available

Chemical Oxygen Demand (COD) : no data available

Adsorbed organic bound halogens (AOX) : no data available

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.

SECTION 13. Disposal considerations

13.1 Waste treatment methods

Product : 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.
Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.

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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.
(Methyl isopropenyl cyclohexene, Octahydro-tetramethyl-naphthalenyl-ethanone)
RID : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(Methyl isopropenyl cyclohexene, Octahydro-tetramethyl-naphthalenyl-ethanone)
IMDG : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(Methyl isopropenyl cyclohexene, Octahydro-tetramethyl-naphthalenyl-ethanone)
IATA : Environmentally hazardous substance, liquid, n.o.s.
(Methyl isopropenyl cyclohexene, Octahydro-tetramethyl-naphthalenyl-ethanone)

14.3 Transport hazard class(es)

ADR : 9
RID : 9
IMDG : 9
IATA : 9

14.4 Packing group

ADR : III
RID : III
IMDG : III

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IATA : III

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

Not applicable for product as supplied.

SECTION 15. Regulatory information

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

Major Accident Hazard : ENVIRONMENTAL HAZARDS
Legislation E2
Quantity 1: 200 t
Quantity 2: 500 t

Water contaminating 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 referred to under sections 2 and 3.

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H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H361	Suspected of damaging fertility or the unborn child.
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
Europe	All Europe	+44 1235 239670	APAC	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		Japan	+81 3 4578 9341
	Italy	+39 02 3604 2884		Indonesia	007 803 011 0293
	Netherlands	+31 10 713 8195		Malaysia	+60 3 6207 4347
	Turkey	+90 212 375 5231		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
	Denmark	+45 8988 2286		Philippines	+63 2 231 2149
	Sweden	+46 8 566 42573		Vietnam	+84 28 4458 2388
	Poland	+48 22 307 3690		Korea	+65 3158 1285
	Czech republic	+420 228 882 830		South Korea	+82 2 3479 8401
Finland	+358 9 7479 0199	Australia	+61 2 8014 4558		
Middle East/Africa	All Middle East/Africa	+44 1235 239671	LATAM	New Zealand	+64 9 929 1483
	Bahrain and Middle East	+973 1619 8321		China	+86 532 8388 9090
	Africa/South Africa	+27 21 300 2732		Mexico	+52 55 5004 8763
NOAM	USA and Canada	+1 866 928 0789	Brazil	+55 11 3197 5891	
	USA and Canada	+1 215 207 0061	Chile	+56 2 2582 9336	

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	USA and Canada	+1 202 464 2554		Colombia	+57 1 508 7337
Global	Global	+44 1865 407333		Argentina	+54 11 5984 3690

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SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Givaudan

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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 - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; 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; KECl - 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; 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.

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