

YLANG GIVCO 225 NDA - GIVAUDAN

Version 2.0

Revision Date 14 JUN 2021

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

1.1 Product identifier

Sales No. : YLANG GIVCO 225 NDA - GIVAUDAN

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 Suisse SA
Chemin de la Parfumerie 5
CH-1214 VERNIER

Telephone : +41227809111
Telefax : +41227809150
E-mail address : global.msds_fragrances_raps@givaudan.com
Responsible/issuing person

1.4 Emergency telephone number

+33172110003
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 irritation, Category 2 | H315: Causes skin irritation. |
| Serious eye damage, Category 1 | H318: Causes serious eye damage. |
| Skin sensitisation, Category 1 | H317: May cause an allergic skin reaction. |
| Reproductive toxicity, Category 2 | H361: Suspected of damaging fertility or the unborn child. |
| 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)

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Hazard pictograms :



Signal word :

Danger

Hazard statements :

H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H361 Suspected of damaging fertility or the unborn child.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements :

Prevention:
P201 Obtain special instructions before use.
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P264 Wash skin thoroughly after handling.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
Response:
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P315 Get immediate medical advice/ attention.

Hazardous components which must be listed on the label:

- (2E)-3,7-dimethyl-2,6-octadien-1-ol 106-24-1 (= geraniol)
- linalool 78-70-6
- benzene, 1-methoxy-4-methyl- (4-methylanisole) 104-93-8
- Cedarwood oil 85085-29-6
- benzyl 2-hydroxybenzoate 118-58-1
- 2-hexyl-3-phenyl-2-propenal (trans & cis) 101-86-0
- turpentine, oil 8006-64-2
- 2-methoxy-4-(2-propen-1-yl)-phenol (eugenol) 97-53-0
- 3,7-dimethyl-2,6-octadien-1-ol (= nerol) 106-25-2
- 2-ethoxy-4-(methoxymethyl)-phenol 5595-79-9
- methyl 3-phenyl-2-propenoate (= methyl cinnamate) 103-26-4

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- isoeugenol 97-54-1

2.3 Other hazards

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] |
|--|---|---|---|
| Benzyl acetate | 140-11-4 205-399-7 01-2119638272-42 | Aquatic Chronic 3; H412 | >= 10 - < 20 |
| (2E)-3,7-dimethyl-2,6-octadien-1-ol (= geraniol) | 106-24-1 203-377-1 01-2119552430-49 | Skin Irrit. 2; H315 Eye Dam. 1; H318 Skin Sens. 1; H317 | >= 10 - < 20 |
| linalool | 78-70-6 201-134-4 01-2119474016-42 | Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1B; H317 | >= 10 - < 20 |
| methyl benzoate | 93-58-3 202-259-7 01-2119969268-21 | Acute Tox. 4; H302 | >= 5 - < 10 |
| benzene, 1-methoxy-4-methyl- (4- methylanisole) | 104-93-8 203-253-7 01-2119513371-52 | Acute Tox. 4; H302 Skin Irrit. 2; H315 Repr. 2; H361 | >= 5 - < 10 |
| 3,7-dimethyl-2,6-octadienyl acetate (= geranyl acetate) | 105-87-3 906-083-8 01-2119973483-29 | Skin Irrit. 2; H315 Aquatic Chronic 3; H412 | >= 2,5 - < 5 |

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| | | | |
|--|--|--|---------------|
| Cedarwood oil | 85085-29-6 8000-27-9 285-360-9 01-2120743168-52 | Skin Corr. 1C; H314 Skin Sens. 1B; H317 Asp. Tox. 1; H304 Aquatic Chronic 2; H411 | >= 3 - < 5 |
| benzyl 2-hydroxybenzoate | 118-58-1 204-262-9 01-2119969442-31 | Eye Irrit. 2; H319 Skin Sens. 1B; H317 Aquatic Chronic 3; H412 | >= 2,5 - < 5 |
| 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 | >= 1 - < 2,5 |
| turpentine, oil | 8006-64-2 232-350-7 01-2119553060-53 | Flam. Liq. 3; H226 Acute Tox. 4; H302 Acute Tox. 4; H332 Acute Tox. 4; H312 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1; H317 Asp. Tox. 1; H304 Aquatic Chronic 2; H411 | >= 0,25 - < 1 |
| 2-methoxy-4-(2-propen-1-yl)-phenol (eugenol) | 97-53-0 202-589-1 01-2119971802-33 | Eye Irrit. 2; H319 Skin Sens. 1B; H317 | >= 0,1 - < 1 |
| 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 | >= 0,1 - < 1 |
| 2-ethoxy-4-(methoxymethyl)-phenol | 5595-79-9 447-640-0 01-0000018892-61 | Acute Tox. 4; H302 Skin Sens. 1B; H317 | >= 0,1 - < 1 |

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| | | | |
|--|---|--|---------------|
| methyl 3-phenyl-2-propenoate (=methyl cinnamate) | 103-26-4 203-093-8 01-2119979458-16 | Skin Sens. 1B; H317 | >= 0,1 - < 1 |
| methyl 2-hydroxybenzoate (=methyl salicylate) | 119-36-8 204-317-7 01-2119515671-44 | Acute Tox. 4; H302 Repr. 2; H361 | >= 0,1 - < 1 |
| isoeugenol | 97-54-1 5932-68-3 202-590-7 01-2120223682-61 | Acute Tox. 4; H302 Acute Tox. 4; H332 Acute Tox. 4; H312 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1A; H317 STOT SE 3; H335 | >= 0 - < 0,01 |

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.
Consult a physician.
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 skin irritation persists, call a physician.
If on skin, rinse well with water.
If on clothes, remove clothes.
- 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 induce vomiting.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
Take victim immediately to hospital.

4.2 Most important symptoms and effects, both acute and delayed

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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 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.

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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.
To avoid spills during handling keep bottle on a metal tray.
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 storage conditions : Ambient / 10-30°C (50 -85°F)
Dry, well ventilated, preferably full, hermetically sealed

Advice on common storage : Protect against light.

German storage class : 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

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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.
- 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

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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 | : Pale yellow |
| Taste | : not determined |
| Odour | : Floral, Undefined, Jasmine-like, Powdery |
| Odour Threshold | : Not applicable |
| Flash point | : 80 °C Method: closed cup |
| Lower explosion limit | : not determined |
| Upper explosion limit | : not determined |
| Flammability | : Not applicable |
| 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 | : 0,256 hPa at 20 °C Calculated (99,6 %) |
| Density | : 973,11 kg/m ³ at 25 °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 |

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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

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

Benzyl acetate : LD50: 2 490 mg/kg Species: Rat

(2E)-3,7-dimethyl-2,6-octadien-1-ol (= geraniol) : LD50: 3 600 mg/kg Species: Rat

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

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| | | |
|--|---|---------------------|
| methyl benzoate | : LD50: 1 177 mg/kg | Species: Rat |
| benzene, 1-methoxy-4-methyl- (4-methylanisole) | : LD50: 1 920 mg/kg | Species: Rat |
| 3,7-dimethyl-2,6-octadienyl acetate (= geranyl acetate) | : LD50: 6 330 mg/kg | Species: Rat |
| Cedarwood oil | : LD50: > 5 000 mg/kg | Species: Rat |
| benzyl 2-hydroxybenzoate | : LD50: 2 227 mg/kg | Species: Rat |
| 2-hexyl-3-phenyl-2-propenal (trans & cis) | : LD50: 3 100 mg/kg | Species: Rat |
| 2-methoxy-4-(2-propen-1-yl)-phenol (eugenol) | : LD50: 2 130 mg/kg | Species: Guinea pig |
| 3,7-dimethyl-2,6-octadien-1-ol (= nerol) | : LD50: 4 500 mg/kg | Species: Rat |
| methyl 3-phenyl-2-propenoate (= methyl cinnamate) | : LD50: 2 610 mg/kg | Species: Rat |
| methyl 2-hydroxybenzoate (=methyl salicylate) | : LD50: 1 300 mg/kg | Species: Rabbit |
| isoeugenol | : LD50: 1 560 mg/kg | Species: Rat |
| 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 (2E)-3,7-dimethyl-2,6-octadien-1-ol (= geraniol) | : LD50: > 5 000 mg/kg | Species: Rabbit |
| benzene, 1-methoxy-4-methyl- (4-methylanisole) | : LD50: > 5 000 mg/kg | Species: Rabbit |
| Cedarwood oil | : LD50: > 5 000 mg/kg | Species: Rabbit |

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benzyl 2-hydroxybenzoate : LD50: 14 150 mg/kg Species: Rabbit

methyl 3-phenyl-2-propenoate (= methyl cinnamate) : LD50: > 5 000 mg/kg Species: Rabbit

methyl 2-hydroxybenzoate (=methyl salicylate) : LD50: > 5 000 mg/kg Species: Rabbit

isoeugenol : LD50: 1 770 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 : May cause irreversible eye damage.

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.

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.

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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

2-hexyl-3-phenyl-2-propenal : 1

(trans & cis)

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

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

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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. Harmful 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.
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

N/A

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14.2 UN proper shipping name

Not regulated as a dangerous good

14.3 Transport hazard class(es)

N/A

14.4 Packing group

N/A

14.5 Environmental hazards

N/A

14.6 Special precautions for user

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 Legislation : Not applicable

Water contaminating class (Germany) : WGK 2 obviously hazardous to water
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. |
| H312 | Harmful in contact with skin. |
| H314 | Causes severe skin burns and eye damage. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H332 | Harmful if inhaled. |
| H335 | May cause respiratory irritation. |
| H361 | Suspected of damaging fertility or the unborn child. |
| H400 | Very toxic to aquatic life. |
| 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 8231 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 | +44 1235 239671 | | China | +86 532 8388 9090 |
| | Africa/South Africa | +27 21 300 2732 | | Mexico | +52 55 5004 8763 |

Administrative information:
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Sales & Distribution Information: VE01/FR/CH11/01
Shipping Order Information: 21 706 477/15 302 858

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|--------|----------------|-----------------|--|-----------|------------------|
| 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 |
| | 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; 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; 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.

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.

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