

CMP 32 - Liberated Girl - Givaudan

Version 2.0

Revision Date 04 SEP 2025

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

1.1 Product identifier

Sales No. : CMP 32 - Liberated Girl - 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 (India) Private Limited
Plot No.25/26 and 46, 2nd Cross,
Jigani Industrial Area
BANGALORE 560105
INDIA

Telephone : +918030166300
Telefax : +918030166340
E-mail address : global.sds_info@givaudan.com
Responsible/issuing person

1.4 Emergency telephone number

+6531581198
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 (Globally Harmonized System)

| | |
|--|--|
| Skin corrosion/irritation, Category 3 | H316: Causes mild skin irritation. |
| Skin sensitisation, Category 1 | H317: May cause an allergic skin reaction. |
| Short-term (acute) aquatic hazard, Category 2 | H401: Toxic to aquatic life. |
| Long-term (chronic) aquatic hazard, Category 2 | H411: Toxic to aquatic life with long lasting effects. |

2.2 Label elements

Labelling (Globally Harmonized System)

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Sales & Distribution Information: JI01/FR/IN11/01
Shipping Order Information: 35,037,732/30,952,034

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Hazard pictograms :  

Signal word : **Warning**

Hazard statements : **H316** Causes mild skin irritation.
H317 May cause an allergic skin reaction.
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements : **Prevention:**
P261 Avoid breathing mist or vapours.
P272 Contaminated work clothing should not be allowed out of the workplace.
P273 Avoid release to the environment.
P280 Wear protective gloves.
Response:
P302 + P352 IF ON SKIN: Wash with plenty of water.
P333 + P317 If skin irritation or rash occurs: Get medical help.
P362 + P364 Take off contaminated clothing and wash it before reuse.
P391 Collect spillage.
Disposal:
P501 Dispose of contents/ container to an approved waste disposal plant.

Hazardous components which must be listed on the label:

- 2-acetyl-1,2,3,4,5,6,7,8-octahydro- 54464-57-2
2,3,8,8-tetra-methylnaphtalene
(main isomer)

2.3 Other hazards

no data available

SECTION 3. Composition/information on ingredients

| Chemical name | CAS-No. EC-No. | Classification (Globally Harmonized System) | Concentration [%] |
|--|-------------------------|--|-------------------|
| Cyclopentaneacetic acid, 3-oxo-2-pentyl-, methyl ester | 24851-98-7 246-495-9 | Aquatic Acute 2; H401 | >= 2.5 - < 5 |

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| | | | |
|--|--------------------------|---|---------------|
| 2-acetyl-1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetra-methylnaphthalene (main isomer) | 54464-57-2 259-174-3 | Skin Irrit. 2; H315 Skin Sens. 1B; H317 Aquatic Acute 2; H401 Aquatic Chronic 1; H410 | >= 1 - < 2.5 |
| 1,4-dioxacyclohepta decane-5-17-dione | 105-95-3 203-347-8 | Aquatic Acute 2; H401 Aquatic Chronic 3; H412 | >= 1 - < 2.5 |
| 1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran | 1222-05-5 214-946-9 | Skin Irrit. 3; H316 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 | >= 1 - < 2.5 |
| 3,7-dimethylnona-1,6-dien-3-ol (cis & trans) | 10339-55-6 233-732-6 | Flam. Liq. 4; H227 Acute Tox. 5; H303 Skin Irrit. 3; H316 Skin Sens. 1B; H317 Eye Irrit. 2A; H319 Aquatic Acute 3; H402 | >= 0.25 - < 1 |
| 3,7-dimethyl-1,6-octadien-3-yl acetate (= linalyl acetate) | 115-95-7 204-116-4 | Flam. Liq. 4; H227 Eye Irrit. 2B; H320 Skin Irrit. 2; H315 Skin Sens. 1B; H317 Aquatic Acute 3; H402 | >= 0.25 - < 1 |
| linalool | 78-70-6 201-134-4 | Flam. Liq. 4; H227 Acute Tox. 5; H303 Eye Irrit. 2A; H319 Skin Irrit. 2; H315 Skin Sens. 1B; H317 Aquatic Acute 3; H402 | >= 0.25 - < 1 |
| Acetic acid, anhydride, reaction product 1,5,10-trimethyl-1,5,9-cyclododecatiene | 144020-22-4 482-330-9 | Skin Irrit. 3; H316 Skin Sens. 1B; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 | >= 0.25 - < 1 |
| 2-methyl-3-(4-isopropylphenyl)propanal | 103-95-7 203-161-7 | Acute Tox. 5; H303 Aquatic Acute 2; H401 Aquatic Chronic 3; H412 Flam. Liq. 4; H227 Repr. 2; H361 Skin Irrit. 2; H315 Skin Sens. 1B; H317 | >= 0.25 - < 1 |
| benzyl salicylate | 118-58-1 204-262-9 | Acute Tox. 5; H303 Aquatic Acute 2; H401 Aquatic Chronic 3; H412 Eye Irrit. 2B; H320 Skin Sens. 1B; H317 | >= 0.25 - < 1 |
| cis-3-hexenyl 2-hydroxybenzoate | 65405-77-8 265-745-8 | Acute Tox. 5; H303 Repr. 2; H361 Aquatic Acute 1; H400 Aquatic Chronic 2; H411 | >= 0.25 - < 1 |

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| | | | |
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| (R)-p-mentha-1,8-diene | 5989-27-5 227-813-5 | Flam. Liq. 3; H226 Asp. Tox. 1; H304 Skin Irrit. 2; H315 Skin Sens. 1B; H317 Aquatic Acute 1; H400 Aquatic Chronic 3; H412 | >= 0.25 - < 1 |
| 7-hydroxy-3,7-dimethyloctan-1-al | 107-75-5 203-518-7 | Eye Irrit. 2A; H319 Aquatic Acute 3; H402 Skin Sens. 1B; H317 | >= 0.25 - < 1 |
| 3-(3,4-Methylene dioxyphenyl)-2-methylpropanal | 1205-17-0 214-881-6 | Acute Tox. 5; H303 Repr. 2; H361 Skin Sens. 1B; H317 Aquatic Acute 2; H401 Aquatic Chronic 2; H411 | >= 0.25 - < 1 |
| Cyclopentadecanolid | 106-02-5 203-354-6 | Acute Tox. 5; H303 Aquatic Chronic 2; H411 Skin Irrit. 3; H316 Skin Sens. 1B; H317 | >= 0.1 - < 0.25 |
| 1,3-Benzodioxole-5-carboxaldehyde (= piperonal) | 120-57-0 204-409-7 | Acute Tox. 5; H303 Aquatic Acute 2; H401 Repr. 2; H361 Skin Sens. 1B; H317 | >= 0.1 - < 0.25 |
| Oils, Lemon | 8008-56-8 284-515-8 | Flam. Liq. 3; H226 Skin Irrit. 2; H315 Skin Sens. 1; H317 Asp. Tox. 1; H304 Aquatic Acute 2; H401 Aquatic Chronic 2; H411 | >= 0.1 - < 0.25 |
| 2H-1-benzopyran-2-one (=coumarin) | 91-64-5 202-086-7 | Acute Tox. 4; H302 Skin Sens. 1B; H317 Aquatic Acute 3; H402 | >= 0.1 - < 0.25 |
| 6,7-Dihydro-1,1,2,3,3-pentamethyl-4(5H)-indanone | 33704-61-9 251-649-3 | Acute Tox. 5; H303 Skin Irrit. 2; H315 Eye Irrit. 2A; H319 Skin Sens. 1B; H317 Aquatic Acute 2; H401 Aquatic Chronic 2; H411 | >= 0.1 - < 0.25 |
| 2-propenyl heptanoate (= Allyl heptanoate) | 142-19-8 205-527-1 | Flam. Liq. 4; H227 Acute Tox. 3; H301 Acute Tox. 3; H311 Aquatic Acute 1; H400 Aquatic Chronic 2; H411 | >= 0.0025 - < 0.02 |

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.

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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.
Flush eyes with water as a precaution.
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.
If symptoms persist, call a physician.

4.2 Most important symptoms and effects, both acute and delayed

- Symptoms : no data available
- Risks : Causes mild skin irritation.
May cause an allergic skin reaction.

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 : High volume water jet

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media

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 : 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.

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 : 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

See sections: 7, 8, 11, 12 and 13.

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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.
- Hygiene measures : Remove contaminated clothing and protective equipment before entering eating areas.
Do not eat, drink or smoke during work.
Wash hands any time after handling the product.

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

7.3 Specific end use(s)

Not applicable

SECTION 8. Exposure controls/personal protection

8.1 Control parameters

Contains no substances with occupational exposure limit values.

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

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SAFETY DATA SHEET

according to the Globally Harmonized System

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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 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

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 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,

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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 NIOSH 42 CFR 84(US).

Thermal hazards : Wear appropriate thermal protective clothing, when necessary.

Hygiene measures : Remove contaminated clothing and protective equipment 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 : Pale yellow to Greenish yellow
Taste : not determined
Odour : Oriental, Floral
Odour Threshold : Not applicable
Flash point : > 100 °C Method: Grabner miniflash 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

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| | | |
|--|---|---|
| pH | : | not determined |
| Vapour pressure | : | 0.0441 hPa at 20 °C Calculated (99.7 %) |
| Density | : | 1,013.17 kg/m ³ 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 |

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

Information on toxicological effects

Acute toxicity

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

Acute oral toxicity

Cyclopentaneacetic acid, 3-oxo-2-pentyl-, methyl ester : LD50: > 5,000 mg/kg Species: Rat

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| 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: Rat |
| 1,4-dioxacyclohepta decane-5-17-dione | : 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 |
| linalool | : LD50: 2,790 mg/kg | Species: Rat |
| Acetic acid, anhydride, reaction product 1,5,10-trimethyl-1,5,9-cyclododecatriene | : LD50: > 5,000 mg/kg | Species: Rat |
| benzyl salicylate | : LD50: 2,227 mg/kg | Species: Rat |
| (R)-p-mentha-1,8-diene | : LD50: 5,600 mg/kg | Species: Mouse |
| 7-hydroxy-3,7-dimethyloctan-1-al | : LD50: > 5,000 mg/kg | Species: Rat |
| 3-(3,4-Methylene dioxyphenyl)-2-methylpropanal | : LD50: 3,561 mg/kg | Species: Rat |
| 1,3-Benzodioxole-5-carboxaldehyde (= piperonal) | : LD50: 2,700 mg/kg | Species: Rat |
| 2H-1-benzopyran-2-one (=coumarin) | : Acute toxicity estimate: 500 mg/kg | Species: Rat |
| 6,7-Dihydro-1,1,2,3,3-pentamethyl-4(5H)-indanone | : LD50: 2,900 mg/kg | Species: Rat |
| 2-propenyl heptanoate (= Allyl heptanoate) | : LD50: 218 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 Cyclopentaneacetic acid, 3-oxo-2-pentyl-, methyl ester | : 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 |
| 1,4-dioxacyclohepta decane-5-17-dione | : LD50: > 5,000 mg/kg | Species: Rabbit |
| 3,7-dimethylnona-1,6-dien-3-ol (cis & trans) | : LD50: > 5,000 mg/kg | Species: Rabbit |

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| | | |
|--|-----------------------|-----------------|
| 3,7-dimethyl-1,6-octadien-3-yl acetate (= linalyl acetate) | : LD50: > 5,000 mg/kg | Species: Rabbit |
| benzyl salicylate | : LD50: 14,150 mg/kg | Species: Rabbit |
| cis-3-hexenyl 2-hydroxybenzoate | : LD50: > 5,000 mg/kg | Species: Rabbit |
| (R)-p-mentha-1,8-diene | : LD50: > 5,000 mg/kg | Species: Rabbit |
| Cyclopentadecanolide | : LD50: > 5,000 mg/kg | Species: Rabbit |
| 1,3-Benzodioxole-5-carboxaldehyde (= piperonal) | : LD50: > 5,000 mg/kg | Species: Rat |
| Oils, Lemon | : LD50: > 5,000 mg/kg | Species: Rabbit |
| 2-propenyl heptanoate (= Allyl heptanoate) | : LD50: 810 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 : 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.

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

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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

Ecotoxicity

Components:

1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran:

M-Factor (Acute aquatic toxicity) : 1

M-Factor (Chronic aquatic toxicity) : 1

Acetic acid, anhydride, reaction product1,5,10-trimethyl-1,5,9-cyclododecatriene:

M-Factor (Acute aquatic toxicity) : 1

M-Factor (Chronic aquatic toxicity) : 1

cis-3-hexenyl 2-hydroxybenzoate:

M-Factor (Acute aquatic toxicity) : 1

2-propenyl heptanoate (= Allyl heptanoate):

M-Factor (Acute aquatic toxicity) : 10

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Persistence and degradability

no data available

Bioaccumulative potential

no data available

Mobility in soil

no data available

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.

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

IMDG : UN 3082

IATA : UN 3082

14.2 UN proper shipping name

ADR : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

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IMDG : N.O.S.
(EXTRACTS, LIQUID)
: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
N.O.S.
: (EXTRACTS, LIQUID)

IATA : Environmentally hazardous substance, liquid, n.o.s.
(Extracts, liquid)

14.3 Transport hazard class(es)

ADR : 9
IMDG : 9
IATA : 9

14.4 Packing group

ADR : III
IMDG : III
IATA : III

14.5 Environmental hazards

ADR
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 Group : None

14.7 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

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no additional relevant information

SECTION 16. Other information

Full text of H-Statements referred to under sections 2 and 3.

| | |
|------|---|
| H226 | Flammable liquid and vapour. |
| H227 | Combustible liquid. |
| H301 | Toxic if swallowed. |
| H302 | Harmful if swallowed. |
| H303 | May be harmful if swallowed. |
| H304 | May be fatal if swallowed and enters airways. |
| H311 | Toxic in contact with skin. |
| H315 | Causes skin irritation. |
| H316 | Causes mild skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H319 | Causes serious eye irritation. |
| H320 | Causes eye irritation. |
| H361 | Suspected of damaging fertility or the unborn child. |
| H400 | Very toxic to aquatic life. |
| H401 | Toxic to aquatic life. |
| H402 | Harmful 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 | 0120 015 230 |
| | Italy | 800 699 792 | | Indonesia | 007 803 011 0293 |
| | 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 |
| | 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 | | |

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| | | | | | |
|--------------------|-------------------------|------------------|-------|-------------|-------------------|
| | 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 | | 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 |
| NOAM | USA and Canada | +1 866 928 0789 | LATAM | 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 |

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

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SAFETY DATA SHEET

according to the Globally Harmonized System

Givaudan

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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; GB EH40 - Great Britain, Environmental Hygiene; 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; NOM-010-STPS - Official Mexican Standard, Ministry of Labor and Social Welfare; 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; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; 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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