

SAFETY DATA SHEET

(REACH regulation (EC) n° 1907/2006 - n° 2020/878)

SECTION 1 : IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

CAS TSCA: 8000-46-2
CAS EINECS: 90082-51-2
EINECS: 290-140-0
Product name: GERANIUM OIL EGYPT

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

Aromatic Raw Material - Professional and industrial use.

Use descriptor system (REACH) :

REACH registration number: Exempt for registration under REACH - import < 1 ton/year.

1.3. Details of the supplier of the safety data sheet

Registered company name : Floral Concept.
Address : Parc d'Activité des Hauts de Grasse - 60, Allée des Arômes.06530.Saint Cezaire sur Siagne.France.
Telephone : 33 (0)4 93 66 66 00. Fax : 33 (0)4 93 40 45 00.
contact@floral-concept.com
http://www.floral-concept.com

1.4. Emergency telephone number : +33 (0)1 45 52 59 59.

Association/Organisation : ORFILA <http://www.centres-antipoison.net>.

Other emergency numbers

<http://echa.europa.eu/fr/support/helpdesks/national-helpdesks/list-of-national-helpdesks>

SECTION 2 : HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

In compliance with EC regulation No. 1272/2008 and its amendments.

Skin irritation, Category 2 (Skin Irrit. 2, H315).
Serious eye damage, Category 1 (Eye Dam. 1, H318).
Skin sensitisation, Category 1 (Skin Sens. 1, H317).
Aspiration hazard, Category 1 (Asp. Tox. 1, H304).
Hazardous to the aquatic environment - Chronic hazard, Category 2 (Aquatic Chronic 2, H411).

2.2. Label elements

In compliance with EC regulation No. 1272/2008 and its amendments.

Hazard pictograms :



GHS05



GHS07



GHS08



GHS09

Signal Word :

DANGER

Product identifier (list of classified components):

EC 203-375-0	DL-CITRONELLOL
EC 203-377-1	GERANIOL
	HYDROCARBONS

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CAS 105-85-1	REACTION MASS OF (E)-3,7-DIMETHYLOCTA-2,6-DIEN-1-YL FORMATE AND 3,7-DIMETHYLOCT-6-EN-1-YL FORMATE
EC 207-727-4	D,L-ISOMENTHONE
EC 201-134-4	LINALOOL
CAS 105-86-2	REACTION MASS OF (E)-3,7-DIMETHYLOCTA-2,6-DIEN-1-YL FORMATE AND 3,7-DIMETHYLOCT-6-EN-1-YL FORMATE
EC 226-394-6	CITRAL
EC 249-580-9	CADINENE
EC 201-746-1	BETA-CARYOPHYLLENE
EC 203-344-1	GERANYL PROPIONATE
EC 203-378-7	NEROL
EC 201-941-1	TRANS-P-MENTHAN-3-ONE
EC 205-463-4	CITRONELLYL BUTYRATE
EC 201-291-9	ALPHA-PINENE
EC 203-341-5	GERANYL ACETATE
EC 246-426-2	CITRONELLYL TIGLATE
EC 203-376-6	CITRONELLAL
EC 227-813-5	D-LIMONENE
EC 209-235-5	4-CARVOMENTHENOL
EC 202-792-5	ALPHA-PHELLANDRENE

Hazard statements :

H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H411	Toxic to aquatic life with long lasting effects.

Precautionary statements - Prevention :

P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/...

Precautionary statements - Response :

P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor/...
P331	Do NOT induce vomiting.
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.

2.3. Other hazards

The substance does not fulfil the PBT or vPvP criteria in accordance with annexe XIII of the REACH regulations EC 1907/2006.

The substance does not exhibit endocrine-disrupting properties according to the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Composition :

Identification	Classification (EC) 1272/2008	Note	%
CAS: 106-22-9 EC: 203-375-0 DL-CITRONELLOL	GHS07 Wng Skin Irrit. 2, H315 Skin Sens. 1B, H317 Eye Irrit. 2, H319		33.0700%

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CAS: 106-24-1 EC: 203-377-1 GERANIOL	GHS05, GHS07 Dgr Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye Dam. 1, H318		15.2000%
HYDROCARBONS	GHS08 Dgr Asp. Tox. 1, H304		8.1000%
CAS: 105-85-1 REACTION MASS OF (E)-3,7-DIMETHYLOCTA-2,6-DIEN-1-YL FORMATE AND 3,7-DIMETHYLOCT-6-EN-1-YL FORMATE	GHS07, GHS09 Wng Skin Sens. 1B, H317 Aquatic Chronic 2, H411 Aquatic Acute 1, H400 M Acute = 1		6.7000%
CAS: 491-07-6 EC: 207-727-4 D,L-ISOMENTHONE	GHS07 Wng Skin Irrit. 2, H315 Skin Sens. 1B, H317 Acute Tox. 4, H332		5.5000%
CAS: 78-70-6 EC: 201-134-4 LINALOOL	GHS07 Wng Skin Irrit. 2, H315 Skin Sens. 1B, H317 Eye Irrit. 2, H319		4.2000%
CAS: 105-86-2 REACTION MASS OF (E)-3,7-DIMETHYLOCTA-2,6-DIEN-1-YL FORMATE AND 3,7-DIMETHYLOCT-6-EN-1-YL FORMATE	GHS07, GHS09 Wng Skin Sens. 1B, H317 Aquatic Chronic 2, H411 Aquatic Acute 1, H400 M Acute = 1		3.0000%
CAS: 98-55-5 EC: 202-680-6 ALPHA-TERPINEOL	GHS07 Wng Skin Irrit. 2, H315 Eye Irrit. 2, H319		2.5200%
CAS: 16409-43-1 EC: 240-457-5 TETRAHYDRO-4-METHYL-2-(2-METHYLPR OPEN-1-YL)PYRAN	GHS07, GHS08 Wng Skin Irrit. 2, H315 Eye Irrit. 2, H319 Repr. 2, H361	[ii]	1.8700%
CAS: 5392-40-5 EC: 226-394-6 CITRAL	GHS07 Wng Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye Irrit. 2, H319		1.6000%
CAS: 29350-73-0 EC: 249-580-9 CADINENE	GHS08 Dgr Asp. Tox. 1, H304		1.5000%
CAS: 87-44-5 EC: 201-746-1 BETA-CARYOPHYLLENE	GHS07, GHS08 Dgr Asp. Tox. 1, H304 Skin Sens. 1B, H317		1.4000%
CAS: 106-29-6 EC: 203-381-3 GERANYL BUTYRATE	GHS09 Wng Aquatic Chronic 2, H411		1.2500%
CAS: 105-90-8 EC: 203-344-1 GERANYL PROPIONATE	GHS09, GHS07 Wng Skin Irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Chronic 2, H411		0.9000%

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CAS: 106-25-2 EC: 203-378-7 NEROL	GHS07 Wng Skin Irrit. 2, H315 Skin Sens. 1B, H317 Eye Irrit. 2, H319		0.8500%
CAS: 89-80-5 EC: 201-941-1 TRANS-P-MENTHAN-3-ONE	GHS07 Wng Skin Irrit. 2, H315 Skin Sens. 1B, H317 Acute Tox. 4, H332		0.7000%
CAS: 141-16-2 EC: 205-463-4 CITRONELLYL BUTYRATE	GHS07, GHS09 Wng Skin Sens. 1B, H317 Aquatic Acute 1, H400 M Acute = 1 Aquatic Chronic 1, H410 M Chronic = 1		0.6500%
CAS: 80-56-8 EC: 201-291-9 ALPHA-PINENE	GHS02, GHS07, GHS08, GHS09 Dgr Flam. Liq. 3, H226 Acute Tox. 4, H302 Asp. Tox. 1, H304 Skin Irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Acute 1, H400 M Acute = 1 Aquatic Chronic 1, H410 M Chronic = 1		0.6000%
CAS: 105-87-3 EC: 203-341-5 GERANYL ACETATE	GHS07 Wng Skin Irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Chronic 3, H412		0.5100%
CAS: 24717-85-9 EC: 246-426-2 CITRONELLYL TIGLATE	GHS07, GHS09 Wng Skin Sens. 1B, H317 Aquatic Acute 1, H400 M Acute = 10 Aquatic Chronic 1, H410 M Chronic = 10		0.3500%
CAS: 106-23-0 EC: 203-376-6 CITRONELLAL	GHS07 Wng Skin Irrit. 2, H315 Skin Sens. 1B, H317 Eye Irrit. 2, H319		0.2800%
CAS: 13877-91-3 EC: 237-641-2 3,7-DIMETHYL-1,3,6-OCTATRIENE	GHS02, GHS07, GHS08, GHS09 Dgr Flam. Liq. 3, H226 Asp. Tox. 1, H304 Skin Irrit. 2, H315 Aquatic Chronic 2, H411 Aquatic Acute 1, H400 M Acute = 1		0.2500%
CAS: 2345-26-8 EC: 219-062-7 GERANYL ISOBUTYRATE	GHS09 Wng Aquatic Acute 1, H400 M Acute = 1 Aquatic Chronic 1, H410 M Chronic = 1		0.2200%

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CAS: 5989-27-5 EC: 227-813-5 D-LIMONENE	GHS02, GHS07, GHS08, GHS09 Dgr Flam. Liq. 3, H226 Asp. Tox. 1, H304 Skin Irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Chronic 3, H412 Aquatic Acute 1, H400 M Acute = 1		0.2000%
CAS: 562-74-3 EC: 209-235-5 4-CARVOMENTHENOL	GHS07 Wng Acute Tox. 4, H302 Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye Irrit. 2, H319 Acute Tox. 4, H332 STOT SE 3, H336		0.2000%
CAS: 123-35-3 EC: 204-622-5 MYRCENE	GHS02, GHS07, GHS08, GHS09 Dgr Flam. Liq. 3, H226 Asp. Tox. 1, H304 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Aquatic Chronic 2, H411 Aquatic Acute 1, H400 M Acute = 1		0.1500%
CAS: 99-87-6 EC: 202-796-7 P-CYMENE	GHS02, GHS08, GHS09, GHS06 Dgr Flam. Liq. 3, H226 Asp. Tox. 1, H304 Acute Tox. 3, H331 Repr. 2, H361 Aquatic Chronic 2, H411	[ii]	0.1400%
CAS: 99-83-2 EC: 202-792-5 ALPHA-PHELLANDRENE	GHS02, GHS07, GHS08, GHS09 Dgr Flam. Liq. 3, H226 Asp. Tox. 1, H304 Skin Sens. 1, H317 Aquatic Acute 1, H400 M Acute = 1 Aquatic Chronic 1, H410 M Chronic = 1		0.1000%

Specific concentration limits:

Identification	Specific concentration limits	ATE
CAS: 106-22-9 EC: 203-375-0 DL-CITRONELLOL		dermal: ATE = 2650 mg/kg BW oral: ATE = 3450 mg/kg BW
CAS: 106-24-1 EC: 203-377-1 GERANIOL		oral: ATE = 3600 mg/kg BW
CAS: 491-07-6 EC: 207-727-4 D,L-ISOMENTHONE		oral: ATE = 2219 mg/kg BW
CAS: 78-70-6 EC: 201-134-4 LINALOOL		oral: ATE = 2790 mg/kg BW

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CAS: 98-55-5 EC: 202-680-6 ALPHA-TERPINEOL		oral: ATE = 4300 mg/kg BW
CAS: 16409-43-1 EC: 240-457-5 TETRAHYDRO-4-METHYL-2-(2-METHYLPR OPEN-1-YL)PYRAN		oral: ATE = 4300 mg/kg BW
CAS: 106-29-6 EC: 203-381-3 GERANYL BUTYRATE		dermal: ATE = 5000 mg/kg BW
CAS: 106-25-2 EC: 203-378-7 NEROL		oral: ATE = 4500 mg/kg BW
CAS: 89-80-5 EC: 201-941-1 TRANS-P-MENTHAN-3-ONE		oral: ATE = 2219 mg/kg BW
CAS: 106-23-0 EC: 203-376-6 CITRONELLAL		oral: ATE = 2500 mg/kg BW
CAS: 13877-91-3 EC: 237-641-2 3,7-DIMETHYL-1,3,6-OCTATRIENE		oral: ATE = 5000 mg/kg BW
CAS: 562-74-3 EC: 209-235-5 4-CARVOMENTHENOL		oral: ATE = 1300 mg/kg BW
CAS: 99-87-6 EC: 202-796-7 P-CYMENE		inhalation: ATE = 9.7 mg/l 4h (vapours) oral: ATE = 4750 mg/kg BW

Information on ingredients :

[ii] Carcinogenic, mutagenic or reprotoxic (CMR) substance.

SECTION 4 : FIRST AID MEASURES

As a general rule, in case of doubt or if symptoms persist, always call a doctor.

NEVER induce swallowing by an unconscious person.

4.1. description of first aid measures

In the event of splashes or contact with eyes :

Wash thoroughly with fresh, clean water for 15 minutes holding the eyelids open.

Regardless of the initial state, refer the patient to an ophthalmologist and show him the label.

In the event of splashes or contact with skin :

Remove contaminated clothing and wash the skin thoroughly with soap and water or a recognised cleaner.

Watch out for any remaining product between skin and clothing, watches, shoes, etc.

In the event of an allergic reaction, seek medical attention.

If the contaminated area is widespread and/or there is damage to the skin, a doctor must be consulted or the patient transferred to hospital.

In the event of swallowing :

Do not give the patient anything orally.

In the event of swallowing, if the quantity is small (no more than one mouthful), rinse the mouth with water and consult a doctor.

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Seek medical attention immediately, showing the label.

If swallowed accidentally, do not allow to drink, do not induce vomiting and transfer to hospital immediately by ambulance.
Show the label to the doctor.

4.2. Most important symptoms and effects, both acute and delayed

No data available.

4.3. Indication of any immediate medical attention and special treatment needed

No data available.

SECTION 5 : FIREFIGHTING MEASURES

Non-flammable.

5.1. Extinguishing media

5.2. Special hazards arising from the substance or mixture

A fire will often produce a thick black smoke. Exposure to decomposition products may be hazardous to health.

Do not breathe in smoke.

In the event of a fire, the following may be formed :

- carbon monoxide (CO)
- carbon dioxide (CO₂)

5.3. Advice for firefighters

No data available.

SECTION 6 : ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Consult the safety measures listed under headings 7 and 8.

For non first aid worker

Avoid any contact with the skin and eyes.

For first aid worker

First aid workers will be equipped with suitable personal protective equipment (See section 8).

6.2. Environmental precautions

Contain and control the leaks or spills with non-combustible absorbent materials such as sand, earth, vermiculite, diatomaceous earth in drums for waste disposal.

Prevent any material from entering drains or waterways.

6.3. Methods and material for containment and cleaning up

Clean preferably with a detergent, do not use solvents.

Important spillage should be contained by use of sand or an inery absorbent product.

Pump and rinse with water after waste recovery.

Waste and rinsing water should be disposed by an accredited company.

6.4. Reference to other sections

No data available.

SECTION 7 : HANDLING AND STORAGE

Requirements relating to storage premises apply to all facilities where the substance is handled.

Individuals with a history of skin sensitisation should not, under any circumstance, handle this substance.

7.1. Precautions for safe handling

Always wash hands after handling.

Remove and wash contaminated clothing before re-using.

Provide emergency showers and eye wash stations will be required in facilities where the substance is handled constantly.

Fire prevention :

Never inhale this substance.

Prevent access by unauthorised personnel.

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Recommended equipment and procedures :

For personal protection, see section 8.
Observe precautions stated on label and also industrial safety regulations.
Avoid eye contact with this substance at all times.

Prohibited equipment and procedures :

No smoking, eating or drinking in areas where the substance is used.

7.2. Conditions for safe storage, including any incompatibilities

No data available.

Storage

Store in cool, dry and ventilated area, away from heat sources, sparks and open flames, protect from light in tightly closed original container.

Packaging

Always keep in packaging made of an identical material to the original.

7.3. Specific end use(s)

No data available.

SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

No data available.

8.2. Exposure controls

Personal protection measures, such as personal protective equipment

Pictogram(s) indicating the obligation of wearing personal protective equipment (PPE) :



Use personal protective equipment that is clean and has been properly maintained.

Store personal protective equipment in a clean place, away from the work area.

Never eat, drink or smoke during use. Remove and wash contaminated clothing before re-using. Ensure that there is adequate ventilation, especially in confined areas.

- Eye / face protection

Avoid contact with eyes.

Use eye protectors designed to protect against liquid splashes

Before handling, wear safety goggles with protective sides accordance with standard ISO 16321.

In the event of high danger, protect the face with a face shield.

Prescription glasses are not considered as protection.

Individuals wearing contact lenses should wear prescription glasses during work where they may be exposed to irritant vapours.

Provide eyewash stations in facilities where the product is handled constantly.

- Hand protection

Use suitable protective gloves that are resistant to chemical agents in accordance with standard EN ISO 374-1.

Gloves must be selected according to the application and duration of use at the workstation.

Protective gloves need to be selected according to their suitability for the workstation in question : other chemical products that may be handled, necessary physical protections (cutting, pricking, heat protection), level of dexterity required.

- Body protection

Avoid skin contact.

Wear suitable protective clothing.

Suitable type of protective clothing :

In the event of substantial spatter, wear liquid-tight protective clothing against chemical risks (type 3) in accordance with EN14605/A1 to prevent skin contact.

In the event of a risk of splashing, wear protective clothing against chemical risks (type 6) in accordance with EN13034/A1 to prevent skin contact.

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Work clothing worn by personnel shall be laundered regularly.
After contact with the product, all parts of the body that have been soiled must be washed.

SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state

Physical state : Fluid liquid.
Appearance : Liquid at room temperature.

Colour

Color : Yellow to green yellow.

Odour

Odour threshold : Not stated.
Odour : Rosy, mint, zest.

Melting point

Melting point/melting range : Not specified.

Freezing point

Freezing point / Freezing range : Not stated.

Boiling point or initial boiling point and boiling range

Boiling point/boiling range : Not specified.

Flammability

Combustible.

Lower and upper explosion limit

Explosive properties, lower explosivity limit (%) Not stated.
:
Explosive properties, upper explosivity limit (%) Not stated.
:

Flash point

Flash Point : 86.00 °C.
--Method: ISO 11018:1997 (closed cup).

Auto-ignition temperature

Self-ignition temperature : Not specified.

Decomposition temperature

Decomposition point/decomposition range : Not specified.

pH

pH : Not relevant.
pH (aqueous solution) : Not stated.

Kinematic viscosity

Viscosity : Not stated.
Viscosity: $\nu < 7 \text{ mm}^2/\text{s}$ (40°C)
--Method: Estimated value.

Solubility

Water solubility : Insoluble.
Fat solubility : Not stated.
Solubility : Soluble in ethyl alcohol - ISO 875:1999.

Partition coefficient n-octanol/water (log value)

Partition coefficient: n-octanol/water : Not stated.

Vapour pressure

Vapour pressure (50°C) : Between 175 kPa and 300 kPa inclusive.
--Method: Estimated value.

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Density and/or relative density

Density : [0.883; 0.905] - ISO 279:1999.

Relative vapour density

Vapour density : Not stated.

Particle characteristics

The substance does not contain nanoforms.

9.2. Other information

Optical rotation : [-14; -8] - ISO 592:1999.

Index of refraction : [1.458; 1.473] - ISO 280:1999.

Transformation's country : Egypt.

Country of origin for the raw material : Egypt.

9.2.1. Information with regard to physical hazard classes

No data available.

9.2.2. Other safety characteristics

No data available.

SECTION 10 : STABILITY AND REACTIVITY

10.1. Reactivity

Oxidation risk on a long-term period.

10.2. Chemical stability

This substance is stable under the recommended handling and storage conditions in section 7.

10.3. Possibility of hazardous reactions

No data available.

10.4. Conditions to avoid

Excessive temperatures (>40°C)

Light exposure.

Heat source exposure.

10.5. Incompatible materials

Acids, bases and oxidizers.

10.6. Hazardous decomposition products

The thermal decomposition may release/form :

- carbon monoxide (CO)

- carbon dioxide (CO₂)

SECTION 11 : TOXICOLOGICAL INFORMATION

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

11.1.1. Substances

a) Acute toxicity :

GERANYL BUTYRATE (CAS: 106-29-6)

Dermal route : LD50 = 5000 mg/kg body weight

P-CYMENE (CAS: 99-87-6)

Oral route : LD50 = 4750 mg/kg body weight

Inhalation route (Vapours) :

LC50 = 9.7 mg/l

Duration of exposure : 4 h

4-CARVOMENTHENOL (CAS: 562-74-3)

Oral route : LD50 = 1300 mg/kg body weight

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3,7-DIMETHYL-1,3,6-OCTATRIENE (CAS: 13877-91-3)

Oral route : LD50 = 5000 mg/kg body weight

CITRONELLAL (CAS: 106-23-0)

Oral route : LD50 = 2500 mg/kg body weight

TRANS-P-MENTHAN-3-ONE (CAS: 89-80-5)

Oral route : LD50 = 2219 mg/kg body weight

NEROL (CAS: 106-25-2)

Oral route : LD50 = 4500 mg/kg body weight

TETRAHYDRO-4-METHYL-2-(2-METHYLPROPEN-1-YL)PYRAN (CAS: 16409-43-1)

Oral route : LD50 = 4300 mg/kg body weight

ALPHA-TERPINEOL (CAS: 98-55-5)

Oral route : LD50 = 4300 mg/kg body weight

LINALOOL (CAS: 78-70-6)

Oral route : LD50 = 2790 mg/kg body weight

D,L-ISOMENTHONE (CAS: 491-07-6)

Oral route : LD50 = 2219 mg/kg body weight

GERANIOL (CAS: 106-24-1)

Oral route : LD50 = 3600 mg/kg body weight

DL-CITRONELLOL (CAS: 106-22-9)

Oral route : LD50 = 3450 mg/kg body weight

Dermal route : LD50 = 2650 mg/kg body weight

b) Skin corrosion/skin irritation :

May cause reversible damage to the skin; namely inflammation of the skin or the formation of erythema and eschar or oedema following exposure up to four hours.

c) Serious damage to eyes/eye irritation :

May have irreversible effects on the eyes, such as tissue damage in the eye, or serious physical decay of sight, which is not fully reversible by the end of observation at 21 days.

Serious eye damage is typified by the destruction of cornea, persistent corneal opacity and iritis.

d) Respiratory or skin sensitisation :

May cause an allergic reaction by skin contact.

e) Germ cell mutagenicity :

No data available.

f) Carcinogenicity :

No data available.

g) Reproductive toxicant :

No data available.

h) Specific target organ systemic toxicity - single exposure :

No data available.

i) Specific target organ systemic toxicity - repeated exposure :

No data available.

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j) Aspiration hazard :

Aspiration toxicity includes severe acute effects such as chemical pneumonia, varying degrees of pulmonary injury or death following aspiration.

May be fatal if swallowed and enters airways.

Aspiration toxicity includes severe acute effects such as chemical pneumonia, varying degrees of pulmonary injury or death following aspiration.

11.1.2 Complex substance

11.1.2.1 Information on hazard classes

a) Acute toxicity :

Oral route : No data available.

Dermal route : No data available.

b) Skin corrosion/skin irritation :

May cause reversible damage to the skin; namely inflammation of the skin or the formation of erythema and eschar or oedema following exposure up to four hours.

c) Serious damage to eyes/eye irritation :

May have irreversible effects on the eyes, such as tissue damage in the eye, or serious physical decay of sight, which is not fully reversible by the end of observation at 21 days.

Serious eye damage is typified by the destruction of cornea, persistent corneal opacity and iritis.

d) Respiratory or skin sensitisation :

May cause an allergic reaction by skin contact.

e) Germ cell mutagenicity :

No data available.

f) Carcinogenicity :

No data available.

g) Reproductive toxicant :

No data available.

h) Specific target organ systemic toxicity - single exposure :

No data available.

i) Specific target organ systemic toxicity - repeated exposure :

No data available.

j) Aspiration hazard :

May be fatal if swallowed and enters airways.

Aspiration toxicity includes severe acute effects such as chemical pneumonia, varying degrees of pulmonary injury or death following aspiration.

11.1.2.2 Other information

Monograph(s) from the IARC (International Agency for Research on Cancer) :

CAS 117-81-7 : IARC Group 2B : The agent is possibly carcinogenic to humans.

CAS 97-53-0 : IARC Group 3 : The agent is not classifiable as to its carcinogenicity to humans.

CAS 93-15-2 : IARC Group 2A : The agent is probably carcinogenic to humans.

CAS 123-35-3 : IARC Group 2B : The agent is possibly carcinogenic to humans.

CAS 5989-27-5 : IARC Group 3 : The agent is not classifiable as to its carcinogenicity to humans.

11.2. Information on other hazards

Endocrine disrupting properties

The substance has not been evaluated as an endocrine disruptor with effects on human health.

SECTION 12 : ECOLOGICAL INFORMATION

Toxic to aquatic life with long lasting effects.

The product must not be allowed to run into drains or waterways.

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12.1. Toxicity

12.1.2 Complex substance

No aquatic toxicity data available for the substances.

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

No data available.

12.6. Endocrine disrupting properties

The substance has not been evaluated as an endocrine disruptor with environmental effects.

12.7. Other adverse effects

No data available.

German regulations concerning the classification of hazards for water (WGK, AwSV Annex I, KBws) :

WGK 2 : Hazardous for water.

SECTION 13 : DISPOSAL CONSIDERATIONS

Proper waste management of the substance and/or its container must be determined in accordance with Directive 2008/98/EC.

13.1. Waste treatment methods

Do not pour into drains or waterways.

Waste :

Waste management is carried out without endangering human health, without harming the environment and, in particular without risk to water, air, soil, plants or animals.

Recycle or dispose of waste in compliance with current legislation, via a certified collector or company.

Do not contaminate the ground or water with waste, do not dispose of waste into the environment.

Soiled packaging :

Empty container completely. Keep label(s) on container.

Give to a certified disposal contractor.

SECTION 14 : TRANSPORT INFORMATION

Transport product in compliance with provisions of the ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport (ADR 2025 - IMDG 2024 [42-24] - ICAO/IATA 2026 [67]).

14.1. UN number or ID number

3082

14.2. UN proper shipping name

UN3082=ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (EXTRACTS, LIQUID)

14.3. Transport hazard class(es)

- Classification :



9

14.4. Packing group

III

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14.5. Environmental hazards

- Environmentally hazardous material :



14.6. Special precautions for user

ADR/RID	Class	Code	Pack gr.	Label	Ident.	LQ	Provis.	EQ	Cat.	Tunnel
	9	M6	III	9	90	5 L	274 335 375 601 650	E1	3	-

Not subject to this regulation if Q <= 5 l / 5 kg (ADR 3.3.1 - DS 375)

IMDG	Class	2°Label	Pack gr.	LQ	EMS	Provis.	EQ	Stowage Handling	Segregation
	9	-	III	5 L	F-A. S-F	274 335 375 969	E1	Category A	-

Not subject to this regulation if Q <= 5 l / 5 kg (IMDG 3.3.1 - 2.10.2.7)

IATA	Class	2°Label	Pack gr.	Passager	Passager	Cargo	Cargo	note	EQ
	9	-	III	964	450 L	964	450 L	A97 A158 A197 A215	E1
	9	-	III	Y964	30 kg G	-	-	A97 A158 A197 A215	E1

Not subject to this regulation if Q <= 5 l / 5 kg (IATA 4.4.4 - DS A197)

For limited quantities, see part 2.7 of the OACI/IATA and chapter 3.4 of the ADR and IMDG.

For excepted quantities, see part 2.6 of the OACI/IATA and chapter 3.5 of the ADR and IMDG.

Marine pollutant (IMDG 3.1.2.9):(reaction mass of (e)-3,7-dimethylocta-2,6-dien-1-yl formate and 3,7-dimethyloct-6-en-1-yl formate)

14.7. Maritime transport in bulk according to IMO instruments

No data available.

SECTION 15 : REGULATORY INFORMATION

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

Classification and labelling information included in section 2:

The following regulations have been used:

- EU Regulation No. 1272/2008 amended by EU Regulation No. 2023/707.
- EU Regulation No. 1272/2008 amended by EU Regulation No. 2025/1222. (ATP 23)

Container information:

No data available.

Particular provisions :

No data available.

Restrictions applied under Title VIII of Regulation (EC) No. 1907/2006 (REACH):

Substance not restricted under Annex XVII of Regulation (EC) no. 1907/2006 (REACH):
<https://echa.europa.eu/substances-restricted-under-reach>.

Authorisations agreed under Title VII of Regulation (EC) No.1907/2006 (REACH):

The substance is not subject to authorisation according to Annex XIV of the REACH Regulation (EC) No 1907/2006:
<https://echa.europa.eu/en/authorisation-list>.

Ozone-depleting substances (Regulation (EC) No 2024/590).

The substance does not pose a risk to the ozone layer.

Persistent organic pollutants (POP) (Regulation (EU) 2019/1021):

The substance is not a persistent organic pollutant.

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PIC Regulation (EU) No 649/2012 concerning the export and import of hazardous chemicals (Rotterdam Convention):

The substance is not subject to the Prior Informed Consent (PIC) procedure.

Explosives precursors :

The substance is not subject to Regulation (EU) 2019/1148 on the marketing and use of explosives precursors.

German regulations concerning the classification of hazards for water (WGK, AwSV Annex I, KBws) :

WGK 2 : Hazardous for water.

Swiss ordinance on the incentive tax on volatile organic compounds :

99-87-6	p-cymene
111-27-3	hexan-1-ol
5989-27-5	d-limonene ((R)-p-mentha-1,8-dien)

15.2. Chemical safety assessment

No data available.

SECTION 16 : OTHER INFORMATION

Wording of the phrases mentioned in section 3 :

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.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H336	May cause drowsiness or dizziness.
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.

Abbreviations and acronyms :

LD50 : The dose of a test substance resulting in 50% lethality in a given time period.
LC50 : The concentration of a test substance resulting in 50% lethality in a given period.
LQ : Limited Quantity
EQ : Excepted Quantity
EmS : Emergency Schedule
E : Packing Instruction
REACH : Registration, Evaluation, Authorization and Restriction of Chemical Substances.
ATE : Acute Toxicity Estimate
BW : Body Weight
CMR: Carcinogenic, mutagenic or reprotoxic.
STEL : Short-term exposure limit
TWA : Time-Weighted Average
VLE : Threshold Limit Value (exposure)
VME : Average Exposure Value.
ADR : Agreement concerning the international carriage of dangerous goods by road.
GHS05 : Corrosion
GHS07 : Exclamation mark
GHS08 : Health hazard
GHS09 : Environment
IATA : International Air Transport Association.

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IMDG : International Maritime Dangerous Goods.

ICAO : International Civil Aviation Organisation

PBT: Persistent, bioaccumulable and toxic.

PIC: Prior Informed Consent.

POP: Persistent Organic Pollutant.

RID : Regulations concerning the International carriage of Dangerous goods by rail.

SVHC : Substances of very high concern.

WGK : Water Hazard Class.

The information contained in this safety data sheet is based on our current knowledge at the time of publication and is provided in good faith. It does not constitute any guarantee of specific product properties nor establish any contractual relationship. The user remains solely responsible for safe and compliant use of the product in accordance with current regulations.
