

Page 1/11

# Safety data sheet according to Regulation (EC) No 1907/2006, Article 31

Printing date 31.10.2025 Version number 2.00 (replaces version 1.00) Revision: 31.10.2025

#### 1 Identification of the substance/mixture and of the company/undertaking

- · Product identifier
- · Trade name: Oleum Bergamottae
- · Article number: G422
- **Registration number** The substance is exempt from REACH-registration.
- · Relevant identified uses of the substance or mixture and uses advised against
- Application of the substance / the mixture Ingredient for pharmaceutical drugs
- · Uses advised against No relevant information available.
- · Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

**CAELO** 

Caesar & Loretz GmbH Herderstr. 31 D-40721 Hilden GERMANY

· Further information obtainable from:

E-mail: info@caelo.de

Tel.: +49210349940 (during regular opening hours)

Emergency telephone number:
Poison Information Center Bonn
Venusberg-Campus 1, 53127 Bonn

Tel: +49 (0) 228-192400

#### 2 Hazards identification

- · Classification of the substance or mixture
- · Classification according to Regulation (EC) No 1272/2008

Flam. Liq. 3 H226 Flammable liquid and vapour.

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction.

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.

Aquatic Acute 1 H400 Very toxic to aquatic life.

Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects.

- · Label elements
- · Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

(Contd. on page 2)



Page 2/11

## Safety data sheet according to Regulation (EC) No 1907/2006, Article 31

Printing date 31.10.2025 Version number 2.00 (replaces version 1.00) Revision: 31.10.2025

Trade name: Oleum Bergamottae

(Contd. of page 1)

#### · Hazard pictograms



#### · Signal word Danger

#### · Hazard statements

H226 Flammable liquid and vapour.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

H304 May be fatal if swallowed and enters airways.

H410 Very toxic to aquatic life with long lasting effects.

#### **Precautionary statements**

If medical advice is needed, have product container or label at hand. P101

P102 Keep out of reach of children.

Read carefully and follow all instructions. P103

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

Specific treatment (see on this label). P321

Do NOT induce vomiting.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P362+P364 Take off contaminated clothing and wash it before reuse.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international

regulations.

#### · Other hazards

#### · Results of PBT and vPvB assessment

- · **PBT**: Not applicable. · vPvB: Not applicable.
- · Determination of endocrine-disrupting properties Not applicable.

### 3 Composition/information on ingredients

- **Mixtures**
- Description: Mixture of substances listed below with nonhazardous additions.

(Contd. on page 3)



Page 3/11

# Safety data sheet according to Regulation (EC) No 1907/2006, Article 31

Printing date 31.10.2025 Version number 2.00 (replaces version 1.00) Revision: 31.10.2025

Trade name: Oleum Bergamottae

(Contd. of page 2) Dangerous components: CAS: 115-95-7 linalyl acetate >25-50% EINECS: 204-116-4 Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; Self-react. G CAS: 138-86-3 dipentene >25-50% EINECS: 205-341-0 Flam. Liq. 3, H226; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Irrit. 2, H315; Skin Sens. 1, H317 CAS: 78-70-6 >10-20% EINECS: 201-134-4 Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1B, H317 CAS: 18172-67-3 I-.beta.-Pinene >2.5-5% EINECS: 242-060-2 Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Irrit. 2, H315; Skin Sens. 1, H317 CAS: 80-26-2 >1-2.5% alpha-Terpineol acetate EINECS: 201-265-7 Aquatic Chronic 2, H411 CAS: 99-85-4 p-Mentha-1,4-diene 1-2.5% EINECS: 202-794-6 Flam. Liq. 3, H226; Asp. Tox. 1, H304 CAS: 123-35-3 >1-<2.5% Myrcene EINECS: 204-622-5 Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1B, H317 CAS: 3387-41-5 1-2.5% thuj-4(10)-ene Flam. Liq. 3, H226; Asp. Tox. 1, H304; Skin Irrit. 2, H315; Skin Sens. 1, H317 CAS: 5392-40-5 Citral 1-2.5% EINECS: 226-394-6 Skin Irrit. 2, H315; Skin Sens. 1, H317 CAS: 7785-26-4 I-.alpha.-Pinene >0.25-<1% EINECS: 232-077-3 Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Irrit. 2, H315; Skin Sens. 1, H317 CAS: 87-44-5 beta-Caryophyllene >0.1-<1% EINECS: 201-746-1 Asp. Tox. 1, H304; Skin Sens. 1, H317 CAS: 105-87-3 geranyl acetate >0.1-<1% EINECS: 203-341-5 Skin Irrit. 2, H315; Skin Sens. 1, H317; Aquatic Chronic 3, H412 CAS: 106-24-1 geraniol >0.1-<1% EINECS: 203-377-1 Skin Sens. 1A, H317 CAS: 141-12-8 Neryl acetate >0.1-<1% EINECS: 205-459-2 Skin Sens. 1, H317 CAS: 484-20-8 bergapten >0.1-<1% Muta. 2, H341; Carc. 1B, H350; Repr. 2, H361; STOT SE 1, H370; STOT RE 2, H373 Additional information: For the wording of the listed hazard phrases refer to section 16.

#### 4 First aid measures

- Description of first aid measures
- · General information: Immediately remove any clothing soiled by the product.

(Contd. on page 4)



Page 4/11

# Safety data sheet according to Regulation (EC) No 1907/2006, Article 31

Printing date 31.10.2025 Version number 2.00 (replaces version 1.00) Revision: 31.10.2025

Trade name: Oleum Bergamottae

(Contd. of page 3)

#### · After inhalation:

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- · After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

- After swallowing: If symptoms persist consult doctor.
- Most important symptoms and effects, both acute and delayed

No further relevant information available.

· Indication of any immediate medical attention and special treatment needed

No further relevant information available.

#### 5 Firefighting measures

- Extinguishing media
- · Suitable extinguishing agents:

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- · For safety reasons unsuitable extinguishing agents: Water with full jet
- · Special hazards arising from the substance or mixture

During heating or in case of fire poisonous gases are produced.

- · Advice for firefighters
- · Protective equipment: In case of fire wear suitable protective clothes and respiratory protection.
- Additional information

Prevent from entering into drains. Fire residues must be disposed in accordance with official regulations.

#### 6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

Environmental precautions:

Do not allow to enter sewers/ surface or ground water.

Inform respective authorities in case of seepage into water course or sewage system.

Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to section 13.

Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

### 7 Handling and storage

· Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

· Information about fire - and explosion protection:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

(Contd. on page 5)



Page 5/11

# Safety data sheet according to Regulation (EC) No 1907/2006, Article 31

Printing date 31.10.2025 Version number 2.00 (replaces version 1.00) Revision: 31.10.2025

Trade name: Oleum Bergamottae

(Contd. of page 4)

- · Conditions for safe storage, including any incompatibilities
- Storage:
- · Requirements to be met by storerooms and receptacles:

Tightly closed. Store at a dry place. At room temperature (+15°C to +25°C).

- Information about storage in one common storage facility: Not required.
- Further information about storage conditions:

Store receptacle in a well ventilated area.

Protect from heat and direct sunlight.

- · Storage class: TRHS 510: 3 Flammable liquid
- · Specific end use(s) No further relevant information available.

#### 8 Exposure controls/personal protection

- Control parameters
- · Ingredients with limit values that require monitoring at the workplace:

CAS: 5392-40-5 Citral

OEL Long-term value: 5 ppm Inhalable fraction and vapour

- · Additional information: The lists valid during the making were used as basis.
- · Exposure controls
- Appropriate engineering controls No further data; see section 7.
- · Individual protection measures, such as personal protective equipment
- General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

- · Respiratory protection: Respiratory with filter.
- Hand protection Protective gloves
- Material of gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye/face protection Tightly sealed goggles

#### 9 Physical and chemical properties

- · Information on basic physical and chemical properties
- · General Information

· Physical state

Liquid Green

· Colour:

· Odour:

Characteristic

ensuc



Page 6/11

# Safety data sheet according to Regulation (EC) No 1907/2006, Article 31

Printing date 31.10.2025 Version number 2.00 (replaces version 1.00) Revision: 31.10.2025

Trade name: Oleum Bergamottae

(Contd. of page 5)

· Odour threshold: Not determined.

-30 °C · Melting point/freezing point:

· Boiling point or initial boiling point and boiling

177.6 °C (CAS: 138-86-3 dipentene) Not applicable. · Flammability

Lower and upper explosion limit

0.7 Vol % (CAS: 138-86-3 dipentene) · Lower: 6.1 Vol % (CAS: 138-86-3 dipentene) · Upper:

56 °C · Flash point: 235 °C · Auto-ignition temperature:

 Decomposition temperature: Not determined. · pH Not determined.

· Viscosity:

Kinematic viscosity Not determined. Not determined. · Dynamic:

Solubility

Not miscible or difficult to mix. · water:

Partition coefficient n-octanol/water (log value) Not determined.

· Vapour pressure at 25 °C:

· Density and/or relative density

Density at 20 °C: 0.868 g/cm3 Not determined. · Relative density · Vapour density Not determined.

· Other information

· Appearance:

· Form: Fluid

· Important information on protection of health and environment, and on safety.

· Ignition temperature: Product is not selfigniting.

**Explosive properties:** Not determined.

· Solvent content:

· Organic solvents: 34.8 % · VOC (EC) 34.84 % Solids content: 0.0 %

· Change in condition

Not determined. · Evaporation rate

· Information with regard to physical hazard

classes

· Aerosols

Void Explosives

Void Void

· Flammable gases

Void Void

2 hPa

Void Oxidising gases Void

Void

(Contd. on page 7)



Page 7/11

# Safety data sheet according to Regulation (EC) No 1907/2006, Article 31

Printing date 31.10.2025 Version number 2.00 (replaces version 1.00) Revision: 31.10.2025

Trade name: Oleum Bergamottae

		(Contd. of page 6)
Gases under pressure	Void	(00 5. page 0)
r	Void	
· Flammable liquids	Flammable liquid and vapour.	
·	Void	
· Flammable solids	Void	
	Void	
· Self-reactive substances and mixtures	Void	
	Void	
· Pyrophoric liquids	Void	
	Void	
· Pyrophoric solids	Void	
	Void	
<ul> <li>Self-heating substances and mixtures</li> </ul>	Void	
	Void	
<ul> <li>Substances and mixtures, which emit flamma</li> </ul>	able	
gases in contact with water	Void	
	Void	
· Oxidising liquids	Void	
	Void	
· Oxidising solids	Void	
	Void	
· Organic peroxides	Void	
	Void	
· Corrosive to metals	Void	
	Void	
· Desensitised explosives	Void	

Void

### 10 Stability and reactivity

- · Reactivity No further relevant information available.
- · Chemical stability
- · Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

- Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

# 11 Toxicological information

- · Information on hazard classes as defined in Regulation (EC) No 1272/2008
- · Acute toxicity Based on available data, the classification criteria are not met.
- LD/LC50 values relevant for classification:

CAS: 78-70-6 Linalool

Oral LD50 2,790 mg/kg (rat) Dermal LD50 5,610 mg/kg (rabbit)

(Contd. on page 8)



Page 8/11

# Safety data sheet according to Regulation (EC) No 1907/2006, Article 31

Printing date 31.10.2025 Version number 2.00 (replaces version 1.00) Revision: 31.10.2025

Trade name: Oleum Bergamottae

(Contd. of page 7)

CAS: 5392-40-5 Citral

Oral LD50 4,960 mg/kg (rat)

CAS: 7785-26-4 I-.alpha.-Pinene
Oral LD50 3,700 mg/kg (rat)

- · Primary irritant effect:
- · Skin corrosion/irritation Causes skin irritation.
- · Serious eye damage/irritation Causes serious eye irritation.
- Respiratory or skin sensitisation May cause an allergic skin reaction.
- · Germ cell mutagenicity Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- · Reproductive toxicity Based on available data, the classification criteria are not met.
- STOT-single exposure Based on available data, the classification criteria are not met.
- · STOT-repeated exposure Based on available data, the classification criteria are not met.
- · **Aspiration hazard** May be fatal if swallowed and enters airways.
- · Information on other hazards
- · Endocrine disrupting properties

On the basis of the available data, the substance does not meet the criteria for the identification of substances having properties of interference with the endocrine system, in accordance with Article 59, paragraph 1 of the REACH Regulation and the criteria established in the Delegated Regulation (EU) 2017 / 2100 of the Commission or in Commission Regulation (EU) 2018/605.

#### 12 Ecological information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- Persistence and degradability No further relevant information available.
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.
- Endocrine disrupting properties

Based on the available data, the substance does not meet the criteria for the identification of substances with properties affecting the endocrine system according to Article 59(1) of the REACH Regulation and the criteria of the Commission Delegated Regulation (EU) 2017/2100 or in the Commission Regulation (EU) 2018/605.

The product does not contain substances with endocrine disrupting properties.

- · Other adverse effects
- · Remark: Very toxic for fish
- · Additional ecological information:
- · General notes:

Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water Do not allow product to reach ground water, water course or sewage system, even in small quantities. Danger to drinking water if even extremely small quantities leak into the ground.

Also poisonous for fish and plankton in water bodies.

Very toxic for aquatic organisms

(Contd. on page 9)



Page 9/11

# Safety data sheet according to Regulation (EC) No 1907/2006, Article 31

Printing date 31.10.2025 Version number 2.00 (replaces version 1.00) Revision: 31.10.2025

Trade name: Oleum Bergamottae

(Contd. of page 8)

### 13 Disposal considerations

- · Waste treatment methods
- · Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packaging:
- Recommendation: Disposal must be made according to local regulations.

### 14 Transport information

· UN number or ID number

UN1993 · ADR, IMDG, IATA

· UN proper shipping name

1993 FLAMMABLE LIQUID, N.O.S. (DIPENTENE, I-· ADR

.beta.-Pinene), ENVIRONMENTALLY HAZARDOUS FLAMMABLE LIQUID, N.O.S. (DIPENTENE, I-.beta.-

·IMDG Pinene, Myrcene, alpha-PINENE), MARINE POLLUTANT

·IATA Flammable liquid, n.o.s. (DIPENTENE, I-.beta.-Pinene)

· Transport hazard class(es)

· ADR, IMDG, IATA

· Class 3 Flammable liquids.

· Label

· Packing group

· ADR, IMDG, IATA Ш

Product contains environmentally hazardous substances: · Environmental hazards:

dipentene

· Marine pollutant: Symbol (fish and tree) Symbol (fish and tree) Special marking (ADR): Special precautions for user Warning: Flammable liquids.

Hazard identification number (Kemler code): 30 F-E,S-E · EMS Number:

Maritime transport in bulk according to IMO

instruments Not applicable.

· Transport/Additional information:

· Limited quantities (LQ) 5L

· Transport category · Tunnel restriction code D/E

·IMDG

· Limited quantities (LQ) 5L

UN 1993 FLAMMABLE LIQUID, N.O.S. (DIPENTENE, L-**UN "Model Regulation":** 

.BETA.-PINENE), 3, III, ENVIRONMENTALLY

**HAZARDOUS** 

(Contd. on page 10)



Page 10/11

# Safety data sheet according to Regulation (EC) No 1907/2006, Article 31

Printing date 31.10.2025 Version number 2.00 (replaces version 1.00) Revision: 31.10.2025

Trade name: Oleum Bergamottae

(Contd. of page 9)

### 15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture
- LIST OF SUBSTANCES SUBJECT TO AUTHORISATION (ANNEX XIV) Not listed
- · REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3
- DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment Annex II

None of the ingredients is listed.

- · National regulations:
- · Storage of hazardous substances in in nonstationary vessels (TRGS 510) (Germany)

TRHS 510: 3 Flammable liquid

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

#### 16 Other information

The information provided is based on our current level of knowledge. This MSDS has been compiled and is exclusively for this product intended.

- · Reasons for alterations This version replaces all old versions.
- · Relevant phrases

H226 Flammable liquid and vapour.

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.

H341 Suspected of causing genetic defects.

H350 May cause cancer.

H361 Suspected of damaging fertility or the unborn child.

H370 Causes damage to organs.

H373 May cause damage to organs through prolonged or repeated exposure.

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.

Version number of previous version: 1.00

#### Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU)

MAL-Code: Måleteknisk Arbejdshygiejnisk Luftbehov (Regulation for the labeling concerning inhalation hazards, Denmark)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 3: Flammable liquids – Category 3

Self-react. G: Self-reactive substances and mixtures - Type G

(Contd. on page 11)



Page 11/11

## Safety data sheet according to Regulation (EC) No 1907/2006, Article 31

Version number 2.00 (replaces version 1.00) Printing date 31.10.2025 Revision: 31.10.2025

#### Trade name: Oleum Bergamottae

(Contd. of page 10)

Skin Irrit. 2: Skin corrosion/irritation - Category 2

Eye Irrit. 2: Serious eye damage/eye irritation - Category 2

Skin Sens. 1: Skin sensitisation – Category 1 Skin Sens. 1A: Skin sensitisation – Category 1A Skin Sens. 1B: Skin sensitisation – Category 1B

Muta. 2: Germ cell mutagenicity - Category 2 Carc. 1B: Carcinogenicity – Category 1B Repr. 2: Reproductive toxicity – Category 2

STOT SE 1: Specific target organ toxicity (single exposure) – Category 1 STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

Asp. Tox. 1: Aspiration hazard - Category 1

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard - Category 1

Aquatic Acute 1: Hazardous to the aquatic environment - long-term aquatic hazard — Category 1
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard — Category 1
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard — Category 2
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard — Category 3

IE .