



Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 16.02.2023

version: 1

Revision: 16.02.2023

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

1.1 Product identifier:

Trade name: **Eucalyptol**

Article number: 89195

CAS Number:

470-82-6

EC number:

207-431-5

Registration number 01-2119967772-24-XXXX

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

No further relevant information available.

Application of the substance / the preparation: Reference substance

1.3 Details of the supplier of the safety data sheet:

Manufacturer/Supplier:

PhytoLab GmbH & Co. KG

Dutendorfer Str. 5-7

D-91487 Vestenbergsgreuth

Tel.: Germany/9163/88-327

Fax: Germany/9163/88-456

Mail: ref-substances@phytolab.de

Further information obtainable from: PLV_MSDS@phytolab.com

1.4 Emergency telephone number: Germany/9163/88-500

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture:

Classification according to Regulation (EC) No 1272/2008:



GHS02 flame

Flam. Liq. 3 H226 Flammable liquid and vapour.



GHS07

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

2.2 Label elements:

Labelling according to Regulation (EC) No 1272/2008:

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

(Contd. on page 2)



Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 16.02.2023

version: 1

Revision: 16.02.2023

Trade name: **Eucalyptol**

Hazard pictograms:



GHS02 GHS07

Signal word: Warning

Hazard statements:

H226 Flammable liquid and vapour.

H317 May cause an allergic skin reaction.

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P280 Wear protective gloves / protective clothing.

P302+P352 IF ON SKIN: Wash with plenty of water.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P403+P235 Store in a well-ventilated place. Keep cool.

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

2.3 Other hazards:

Restricted to professional users. The toxicological properties of this compound have not been fully evaluated.

Results of PBT and vPvB assessment:

PBT: Not applicable.

vPvB: Not applicable.

(Contd. of page 1)

SECTION 3: Composition/information on ingredients

3.1 Substances

Synonyms: Cineole

Molecular formula: C₁₀H₁₈O

CAS No. Description

470-82-6 Eucalyptol

Identification number(s)

EC number: 207-431-5

Additional information: chemical product

SECTION 4: First aid measures

4.1 Description of first aid measures:

General information:

Immediately remove any clothing soiled by the product.

(Contd. on page 3)



Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 16.02.2023

version: 1

Revision: 16.02.2023

Trade name: **Eucalyptol**

(Contd. of page 2)

Induce vomiting only with medical help.

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

After skin contact:

Immediately rinse with water.

If skin irritation continues, consult a doctor.

After eye contact:

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

After swallowing:

Rinse out mouth and then drink plenty of water.

If symptoms persist consult doctor.

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

No further relevant information available.

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

No further relevant information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media:

Suitable extinguishing agents:

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

Use fire extinguishing methods suitable to surrounding conditions.

5.2 Special hazards arising from the substance or mixture:

No further relevant information available.

5.3 Advice for firefighters:

Protective equipment:

Mount respiratory protective device.

Wear fully protective suit.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

Ensure adequate ventilation

Keep away from ignition sources.

Wear protective equipment. Keep unprotected persons away.

Do not breathe vapor/aerosols. Avoid skin and eye contact.

6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.

6.3 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 item 13.

6.4 Reference to other sections:

See Section 7 for information on safe handling.

(Contd. on page 4)

**Safety data sheet**

according to 1907/2006/EC, Article 31

Printing date 16.02.2023

version: 1

Revision: 16.02.2023

Trade name: **Eucalyptol**

(Contd. of page 3)

See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: Handling and storage**7.1 Precautions for safe handling:**

Handling corresponding to laboratory safety guidelines.

Store in cool, dry place in tightly closed receptacles.

Keep receptacles tightly sealed.

Open and handle receptacle with care.

Ensure good ventilation/exhaustion at the workplace.

Keep away from heat and direct sunlight.

Prevent formation of aerosols.

Information about fire - and explosion protection:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Flammable gas-air mixtures may form in empty receptacles.

7.2 Conditions for safe storage, including any incompatibilities:**Storage:**

Requirements to be met by storerooms and receptacles:

Store in a cool location.

Store only in the original receptacle.

Information about storage in one common storage facility: Store away from foodstuffs.

Further information about storage conditions:

Store in cool, dry conditions in well sealed receptacles.

Store in the dark.

Recommended storage temperature: 2-8 °C

Storage class: 3

7.3 Specific end use(s): No further relevant information available.**SECTION 8: Exposure controls/personal protection****8.1 Control parameters:**

Ingredients with limit values that require monitoring at the workplace: Not required.

Additional information: The lists valid during the making were used as basis.

8.2 Exposure controls:

Appropriate engineering controls: No further data; see item 7.

Individual protection measures, such as personal protective equipment:

General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.

Do not eat, drink, smoke or sniff while working.

Do not inhale gases / fumes / aerosols.

Keep away from foodstuffs, beverages and feed.

(Contd. on page 5)



Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 16.02.2023

version: 1

Revision: 16.02.2023

Trade name: **Eucalyptol**

(Contd. of page 4)

Immediately remove all soiled and contaminated clothing

Avoid contact with the eyes and skin.

Wash hands before breaks and at the end of work.

Respiratory protection:

Use suitable respiratory protective device only when aerosol or mist is formed.

Use suitable respiratory protective device in case of insufficient ventilation.

Hand protection:

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

Material of gloves:



Nitrile rubber, NBR

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

Body protection: Protective work clothing

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties:

General Information:

Physical state:

Fluid

Colour:

According to Certificate of Analysis

Odour:

No data available.

Odour threshold:

Not determined.

Molecular Weight

Melting point/freezing point:

-1.3 °C

Boiling point or initial boiling point and boiling range:

177 °C

Flammability:

Flammable.

(Contd. on page 6)

**Safety data sheet**

according to 1907/2006/EC, Article 31

Printing date 16.02.2023

version: 1

Revision: 16.02.2023

Trade name: **Eucalyptol**

(Contd. of page 5)

Dust explosion class:

Lower and upper explosion limit:

Lower: Not determined.

Upper: Not determined.

Flash point: 52 °C (closed cup)

(Minimum) Ignition temperature: Not determined.

Decomposition temperature: Not determined.

Powder volume resistivity:

pH: Not determined.

Dissociation constant:

Viscosity:

Kinematic viscosity: Not determined.

Solubility in other solvents:

Dynamic: Not determined.

Solubility:

water: Insoluble.

Partition coefficient n-octanol/water (log value) at 35 °C:

3.4 (OECD 117)

Vapour pressure: Not determined.

Density and/or relative density:

Density at 20 °C: 0.926 g/cm³

Not determined.

Relative density: Not determined.

Vapour density: Not determined.

9.2 Other information:

Appearance:

Form: Fluid

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

Auto-ignition temperature: Not determined.

Explosive properties: Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

Molecular weight 154.25 g/mol

Oxidising properties: Not determined.

Evaporation rate: Not determined.

Information with regard to physical hazard classes:

Explosives Void

Flammable gases Void

Aerosols Void

Oxidising gases Void

Gases under pressure Void

(Contd. on page 7)

— EU —

**Safety data sheet**

according to 1907/2006/EC, Article 31

Printing date 16.02.2023

version: 1

Revision: 16.02.2023

Trade name: **Eucalyptol**

(Contd. of page 6)

Flammable liquids	Flammable liquid and vapour.
Flammable solids	Void
Self-reactive substances and mixtures	Void
Pyrophoric liquids	Void
Pyrophoric solids	Void
Self-heating substances and mixtures	Void
Substances and mixtures, which emit flammable gases in contact with water	Void
Oxidising liquids	Void
Oxidising solids	Void
Organic peroxides	Void
Corrosive to metals	Void
Desensitised explosives	Void

SECTION 10: Stability and reactivity

- 10.1 Reactivity: No further relevant information available.
10.2 Chemical stability:
Thermal decomposition / conditions to be avoided:
Stable under constant-temperature (see 7.)
10.3 Possibility of hazardous reactions: no data available
10.4 Conditions to avoid: No further relevant information available.
10.5 Incompatible materials: Strong oxidising agents.
10.6 Hazardous decomposition products: no data available

SECTION 11: Toxicological information

- 11.1 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:
Oral LD50 2,480 mg/kg (rat)
Skin corrosion/irritation: Based on available data, the classification criteria are not met.
Serious eye damage/irritation:
Based on available data, the classification criteria are not met.
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: Based on available data, the classification criteria are not met.

(Contd. on page 8)

EU

**Safety data sheet**

according to 1907/2006/EC, Article 31

Printing date 16.02.2023

version: 1

Revision: 16.02.2023

Trade name: **Eucalyptol**

(Contd. of page 7)

11.2 Information on other hazards

Endocrine disrupting properties: Substance is not listed.

SECTION 12: Ecological information**12.1 Toxicity:****Aquatic toxicity:**

Quantitative data concerning the ecological properties of the product are not available.

12.2 Persistence and degradability: No further relevant information available.

12.3 Bioaccumulative potential:

Due to the distribution coefficient n-octanol/water an accumulation in organisms is not expected.

12.4 Mobility in soil: No further relevant information available.

12.5 Results of PBT and vPvB assessment:

PBT: Not applicable.

vPvB: Not applicable.

12.6 Endocrine disrupting properties:

The product does not contain substances with endocrine disrupting properties.

12.7 Other adverse effects:

Remark: Do not release into sewage, water or soil.

Additional ecological information:**General notes:**

Water hazard class 2 (German Regulation) (Assessment by list): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

SECTION 13: Disposal considerations**13.1 Waste treatment methods:****Recommendation:**

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

Dispose product and packaging in accordance with regional environmental laws.

Uncleaned packaging:

Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport information**14.1 UN number or ID number:**

ADR, IMDG, IATA

UN1993

14.2 UN proper shipping name:

ADR

UN1993 FLAMMABLE LIQUID, N.O.S.
(Eucalyptol)

(Contd. on page 9)

**Safety data sheet**

according to 1907/2006/EC, Article 31

Printing date 16.02.2023

version: 1

Revision: 16.02.2023

Trade name: **Eucalyptol**

(Contd. of page 8)

IMDG, IATA

14.3 Transport hazard class(es):

ADR, IMDG, IATA



FLAMMABLE LIQUID, N.O.S. (Eucalyptol)

Class

3 Flammable liquids.

Label

3

14.4 Packing group:

ADR, IMDG, IATA

III

14.5 Environmental hazards:

Marine pollutant:

No

14.6 Special precautions for user:

Warning: Flammable liquids.

Hazard identification number (Kemler code): 30

EMS Number:

F-E, S-E

Stowage Category

A

14.7 Maritime transport in bulk according to

IMO instruments:

Not applicable.

Transport/Additional information:

ADR

Limited quantities (LQ)

5L

Excepted quantities (EQ)

Code: E1

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 1000 ml

Transport category

3

Tunnel restriction code

D/E

IMDG

Limited quantities (LQ)

5L

Excepted quantities (EQ)

Code: E1

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 1000 ml

UN "Model Regulation":

UN 1993 FLAMMABLE LIQUID, N.O.S. (EUCALYPTOL), 3, III

EU

(Contd. on page 10)



Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 16.02.2023

version: 1

Revision: 16.02.2023

Trade name: **Eucalyptol**

(Contd. of page 9)

SECTION 15: Regulatory information

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

Directive 2012/18/EU:

Named dangerous substances - ANNEX I: Substance is not listed.

Seveso category P5c FLAMMABLE LIQUIDS

Qualifying quantity (tonnes) for the application of lower-tier requirements 5,000 t

Qualifying quantity (tonnes) for the application of upper-tier requirements 50,000 t

REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3, 40

DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II:

Substance is not listed.

REGULATION (EU) 2019/1148

Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3)):

Substance is not listed.

Annex II - REPORTABLE EXPLOSIVES PRECURSORS: Substance is not listed.

National regulations:

Waterhazard class: Water hazard class 2 (Assessment by list): hazardous for water.

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

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organisation

ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)

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

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

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

Skin Sens. 1: Skin sensitisation – Category 1