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## Safety Data Sheet

### EUCALYPTUS CITRODORA OIL BRAS

Safety Data Sheet dated: 09 March 2021 - version 2

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

### 1.1. Product identifier

Identification of the substance:

Eucalyptus citriodora Essential Oil  
Trade name: EUCALYPTUS CITRODORA OIL BRAS  
Trade code: 100190054  
CAS number: 85203-56-1  
EC number: 286-249-8  
Registration Number 01-2120741486-50

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

Recommended use: Raw Material for use in fragrances and similar products

Uses advised against: Not for personal use at this concentration nor in this format

### 1.3. Details of the supplier of the safety data sheet

### 1.4. Emergency telephone number

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## SECTION 2: Hazards identification



### 2.1. Classification of the substance or mixture

#### Regulation (EC) n. 1272/2008 (CLP)

Skin Irrit. 2 Causes skin irritation.  
Eye Irrit. 2 Causes serious eye irritation.  
Skin Sens. 1 May cause an allergic skin reaction.  
Aquatic Chronic 2 Toxic to aquatic life with long lasting effects.

Adverse physicochemical, human health and environmental effects:  
No other hazards

### 2.2. Label elements

#### Regulation (EC) No 1272/2008 (CLP):

#### Pictograms and Signal Words



Warning

#### Hazard statements

H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.  
H411 Toxic to aquatic life with long lasting effects.

#### Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
P264 Wash contact areas thoroughly after handling.

P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	EU13\$P280
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P321	Specific measures (see supplemental first aid instructions on this label or in the SDS).
P332+P313	If skin irritation occurs: Get medical advice/attention.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P391	Collect spillage.
P501	Dispose of contents/container in accordance with all applicable regulations.

**Special provisions according to Annex XVII of REACH and subsequent amendments:**

None

**2.3. Other hazards**

No PBT Ingredients are present

Other Hazards: No other hazards

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**SECTION 3: Composition/information on ingredients**

**3.1. Substances**

**Hazardous components within the meaning of the CLP regulation and related classification:**

Qty	Name	Ident. Numb.	Classification
60-70 %	citronellal	CAS:106-23-0 EC:203-376-6	Skin Irrit. 2; Skin Sens. 1B; Eye Irrit. 2, H315, H317, H319
7-10 %	isopulegol	CAS:89-79-2 EC:201-940-6	Acute Tox. 4; Skin Irrit. 2; Eye Irrit. 2, H302, H315, H319
5-7 %	citronellol	CAS:106-22-9 EC:203-375-0	Skin Irrit. 2; Skin Sens. 1B; Eye Irrit. 2, H315, H317, H319
1-3 %	alpha-pinene	CAS:80-56-8 EC:201-291-9	Flam. Liq. 3; Acute Tox. 4; Asp. Tox. 1; Skin Irrit. 2; Skin Sens. 1B; Aquatic Chronic 1, H226, H302, H304, H315, H317, H410, M-Chronic:1
0.5-1 %	(R)-p-Mentha-1,8-diene	CAS:5989-27-5 EC:227-813-5 Index:601-029-00-7	Flam. Liq. 3; Skin Irrit. 2; Skin Sens. 1B; Aquatic Acute 1; Aquatic Chronic 1, H226, H315, H317, H400, H410, M-Chronic:1, M-Acute:1
0.5-1 %	beta-pinene	CAS:127-91-3 EC:204-872-5	Flam. Liq. 3; Asp. Tox. 1; Skin Irrit. 2; Skin Sens. 1B; Aquatic Chronic 1, H226, H304, H315, H317, H410, M-Chronic:1
0.5-1 %	citronellyl acetate	CAS:150-84-5 EC:205-775-0	Skin Irrit. 2; Aquatic Chronic 2, H315, H411
0.5-1 %	Longifolene	CAS:475-20-7 EC:207-491-2	Skin Irrit. 2; Skin Sens. 1B; Aquatic Acute 1; Aquatic Chronic

0.25-0.5 % Linalool

CAS:78-70-6  
EC:201-134-4

1, H315, H317, H400, H410, M-  
Chronic:1, M-Acute:1

Skin Sens. 1B; Skin Irrit. 2; Eye  
Irrit. 2, H317, H315, H319

### 3.2. Mixtures

Not determined

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## SECTION 4: First aid measures

### 4.1. Description of first aid measures

In case of skin contact:

- Immediately take off all contaminated clothing.
- Remove contaminated clothing immediately and dispose off safely.
- After contact with skin, wash immediately with soap and plenty of water.

In case of eyes contact:

- After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.
- Protect uninjured eye.

In case of Ingestion:

- Do not induce vomiting, get medical attention showing the SDS and label hazardous.
- If symptoms persist consult doctor.

In case of Inhalation:

- Remove casualty to fresh air and keep warm and at rest.

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

Eye irritation  
Eye damages  
Skin Irritation  
Erythema

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

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

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## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media:

- Carbon dioxide (CO<sub>2</sub>).

Extinguishing media which must not be used for safety reasons:

- None in particular.

### 5.2. Special hazards arising from the substance or mixture

- Do not inhale explosion or combustion gases.
- Burning produces heavy smoke.

### 5.3. Advice for firefighters

- Use suitable breathing apparatus .
- Collect contaminated fire extinguishing water. Do not discharge into drains.
- Move undamaged containers from immediate hazard area but only if it can be done safely.

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## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

- Wear personal protection equipment.
- Remove persons to safety.
- See protective measures under point 7 and 8.

### 6.2. Environmental precautions

- Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.
- Retain contaminated washing water and dispose it.
- In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.
- Suitable material for taking up: absorbing material, organic, sand

### 6.3. Methods and material for containment and cleaning up

- Suitable material for taking up: absorbing material, organic, sand
- Wash with plenty of water.

### 6.4. Reference to other sections

- See also section 8 and 13

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.

Don't use empty container before they have been cleaned.

Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.

Contaminated clothing should be changed before entering eating areas.

Do not eat or drink while working.

See also section 8 for recommended protective equipment.

### 7.2. Conditions for safe storage, including any incompatibilities

Closed recipients, away from the light, in a cool, dry place (optimum storage temperature between 10°C and 25°C). Shake before using.

Incompatible materials:

None in particular.

Instructions regarding storage premises:

Adequately ventilated premises.

### 7.3. Specific end use(s)

Recommendation(s)

None in particular

Industrial sector specific solutions:

None in particular

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## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Community Occupational Exposure Limits (OEL)

Component	OEL Type	Country	Long Term mg/m3	Long Term ppm	Short Term mg/m3	Short Term ppm	Behaviour
alpha-pinene	ACGIH			20			
	NATIONAL	Spain	113	20			
	NATIONAL	Portugal		20			
	NATIONAL	Belgium		20			
(R)-p-Mentha-1,8-diene	MAK	Germany	28	5			
	NATIONAL	Germany			112	20	
	NATIONAL	Finland	140	25	280	50	
	NATIONAL	Germany	28	5			
beta-pinene	ACGIH			20			
	NATIONAL	Spain	113	20			
	NATIONAL	Portugal		20			
	NATIONAL	Belgium		20			

### 8.2. Exposure controls

Eye protection:

Use close fitting safety goggles, don't use eye lens.

Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

Protection for hands:

Use protective gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber.

Respiratory protection:

Not determined

Hygienic and Technical measures

Not determined

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## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical State: Liquid

Appearance and colour: Mobile liquid, Colorless to Yellowish

Odour: Herbal Citronella Lemon

Odour threshold: Not determined

pH: Not determined

Melting point / freezing point: Not determined

Initial boiling point and boiling range: Not determined



isopulegol	a) acute toxicity	ATE - Oral : 940 mg/kg bw
citronellol	a) acute toxicity	LD50 Skin Rabbit = 2650 mg/kg LD50 Oral Rat = 3450 mg/kg
alpha-pinene	a) acute toxicity	ATE - Oral : 500 mg/kg bw LD50 Oral Rat = 3700 mg/kg LD50 Skin Rat > 5000 mg/kg
(R)-p-Mentha-1,8-diene	a) acute toxicity	LD50 Oral Rat = 5200 mg/kg LD50 Skin Rabbit > 5 g/kg
beta-pinene	a) acute toxicity	LD50 Oral Rat > 5000 mg/kg LD50 Skin Rabbit > 5000 mg/kg
citronellyl acetate	a) acute toxicity	LD50 Oral Rat = 6800 mg/kg
Longifolene	a) acute toxicity	LD50 Oral Rat > 5 g/kg
Linalool	a) acute toxicity	LD50 Oral Rat = 2790 mg/kg LC50 Inhalation Mouse = 3.2 mg/l 1h

## SECTION 12: Ecological information

### 12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment.

Eco-Toxicological Information:

Toxic to aquatic life with long lasting effects.

### List of Eco-Toxicological properties of the components

Quantity	Component	Ident. Numb.	Ecotox Data
1-3 %	alpha-pinene	CAS: 80-56-8 - EINECS: 201- 291-9	a) Aquatic acute toxicity : LC50 Fish Pimephales promelas = 0.28 mg/L 96h IUCLID - static  a) Aquatic acute toxicity : LC50 Daphnia Daphnia magna = 41 mg/L 48h IUCLID
0.5-1 %	(R)-p-Mentha-1,8-diene	CAS: 5989-27-5 - EINECS: 227- 813-5 - INDEX: 601-029-00-7	a) Aquatic acute toxicity : LC50 Fish Pimephales promelas 0.619 mg/L 96h EPA - 0.619 - 0.796 flow-through  a) Aquatic acute toxicity : LC50 Fish Oncorhynchus mykiss = 35 mg/L 96h EPA
0.25-0.5 %	Linalool	CAS: 78-70-6 - EINECS: 201- 134-4	a) Aquatic acute toxicity : EC50 Daphnia Daphnia magna = 20 mg/L 48h IUCLID  a) Aquatic acute toxicity : EC50 Algae Desmodesmus subspicatus = 88.3 mg/L 96h IUCLID

### 12.2. Persistence and degradability

Not Available

### 12.3. Bioaccumulative potential

Not Available

### 12.4. Mobility in soil

Not Available

### 12.5. Results of PBT and vPvB assessment

No PBT Ingredients are present

## 12.6. Other adverse effects

Not determined

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## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Recover if possible. In so doing, comply with the local and national regulations currently in force.

Water Hazard Class Class 2: hazardous for water.

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## SECTION 14: Transport information

### 14.1. UN number

3082

### 14.2. UN proper shipping name

ADR-Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (alpha-pinene - (R)-p-Mentha-1,8-diene)

IATA-Technical name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (alpha-pinene - (R)-p-Mentha-1,8-diene)

IMDG-Technical name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (alpha-pinene - (R)-p-Mentha-1,8-diene)

### 14.3. Transport hazard class(es)

ADR-Class: 9

IATA-Class: 9

IMDG-Class: 9

### 14.4. Packing group

ADR-Packing Group: III

IATA-Packing group: III

IMDG-Packing group: III

### 14.5. Environmental hazards

Toxic Component most present: alpha-pinene

Toxic Ingredients Qty: 1.00

High Toxicity Ingredients Qty: 5.00

Marine pollutant: Yes

Environmental Pollutant: Yes

### 14.6. Special precautions for user

Road and Rail (ADR-RID) :

ADR exempt: No

ADR-Label: 9

ADR - Hazard identification number: 90

ADR-Special Provisions: 274 335 375 601

ADR-Transport category (Tunnel restriction code): 3 (-)

Air (IATA) :

IATA-Passenger Aircraft: 964

IATA-Cargo Aircraft: 964

IATA-Label: 9

IATA-Subsidiary hazards: -

IATA-Erg: 9L

IATA-Special Provisioning: A97 A158 A197

Sea (IMDG) :

IMDG-Stowage Code: Category A

IMDG-Stowage Note: -

IMDG-Subsidiary hazards: -

IMDG-Special Provisioning: 274 335 969

IMDG-Page: N/A

IMDG-Label: N/A

IMDG-EMS: F-A, S-F

IMDG-MFAG: N/A

### 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not Available

## SECTION 15: Regulatory information

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

Dir. 98/24/EC (Risks related to chemical agents at work)

Dir. 2000/39/EC (Occupational exposure limit values)

Regulation (EC) n. 1907/2006 (REACH)

Regulation (EC) n. 1272/2008 (CLP)

Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013

Regulation (EU) n. 286/2011 (ATP 2 CLP)

Regulation (EU) n. 618/2012 (ATP 3 CLP)

Regulation (EU) n. 487/2013 (ATP 4 CLP)

Regulation (EU) n. 944/2013 (ATP 5 CLP)

Regulation (EU) n. 605/2014 (ATP 6 CLP)

Regulation (EU) n. 2015/1221 (ATP 7 CLP)

Regulation (EU) n. 2016/918 (ATP 8 CLP)

Regulation (EU) n. 2016/1179 (ATP 9 CLP)

Regulation (EU) n. 2017/776 (ATP 10 CLP)

Regulation (EU) n. 2018/669 (ATP 11 CLP)

Regulation (EU) n. 2018/1480 (ATP 13 CLP)

Regulation (EU) n. 2019/521 (ATP 12 CLP)

Regulation (EU) 2015/830

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

Restrictions related to the product: 3, 40

Restrictions related to the substances contained: None

Provisions related to directive EU 2012/18 (Seveso III):

Not Available

German Water Hazard Class.

Class 2: hazardous for water.

SVHC Substances:

None > 0.1%

### 15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for the substance.

## SECTION 16: Other information

Code	Description
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.
H319	Causes serious eye irritation.
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.

Code	Hazard class and hazard category	Description
2.6/3	Flam. Liq. 3	Flammable liquid, Category 3
3.1/4/Oral	Acute Tox. 4	Acute toxicity (oral), Category 4
3.10/1	Asp. Tox. 1	Aspiration hazard, Category 1
3.2/2	Skin Irrit. 2	Skin irritation, Category 2
3.3/2	Eye Irrit. 2	Eye irritation, Category 2
3.4.2/1	Skin Sens. 1	Skin Sensitisation, Category 1
3.4.2/1B	Skin Sens. 1B	Skin Sensitisation, Category 1B
4.1/A1	Aquatic Acute 1	Acute aquatic hazard, category 1
4.1/C1	Aquatic Chronic 1	Chronic (long term) aquatic hazard, category 1
4.1/C2	Aquatic Chronic 2	Chronic (long term) aquatic hazard, category 2



**Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:**

**Classification according to Regulation (EC) Nr. 1272/2008      Classification procedure**

3.2/2	Calculation method
3.3/2	Calculation method
3.4.2/1	Calculation method
4.1/C2	Calculation method

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

In December 2003, the National Institute for Occupational Safety and Health

(NIOSH) published an Alert on preventing lung disease in workers who use or make flavorings. NIOSH Publication Number 2004-110. In August 2004, the United States Flavor and Extract Manufacturers Association (FEMA) issued a report entitled "Respiratory Safety in the Flavoring Manufacturing

Workplace." Both of these reports provide recommendations for reducing employee exposure and for medical surveillance in the workplace. The recommendations in these reports are generally applicable to the use of any chemical in the workplace and you are strongly urged to review both of these reports.

Both these reports provide recommendations for reducing employee exposure and for medical surveillance in the workplace. The contents in these reports are generally applicable to the use of any material in the workplace, and it is recommended that they be reviewed.

Advice on training: the user should be trained to handle the mixture / substances with respect to:

Possible hazards. See section 2.

Appropriate personal protective clothing. See section 8.

Appropriate engineering controls including the use of extraction equipment. See section 8.

First aid measures. See section 4.

Fire-fighting measures. See section 5.

Handling spillages. See section 13.

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This SDS cancels and replaces any preceding release.

ACGIH: American Conference of Governmental Industrial Hygienists

AND: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

ATE: Acute Toxicity Estimate

ATEmix: Acute toxicity estimate of the mixture

BCF: Biological Concentration Factor

BEI: Biological Exposure Index

BOD: Biochemical Oxygen Demand

CAV: Poison Center

CE: European Community

CLP: Classification, Labeling, Packaging.

COD: Chemical Oxygen Demand

COV: Volatile Organic Compound

CSA: Chemical Safety Assessment

CSR: Chemical Safety Report

DMEL: Derived Minimal Effect Level

DPD: Dangerous Preparations Directive

DSD: Dangerous Substances Directive

EC50: Half Maximal Effective Concentration

ECHA: European Chemicals Agency

ES: Exposure Scenario

IARC: International Agency for Research on Cancer

IC50: half maximal inhibitory concentration

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

IRCCS: Scientific Institute for Research, Hospitalization and Health Care

KAFH: KAFH

LDLo: Leathal Dose Low

N.A.: Not Applicable

N/A: Not Applicable

N/D: Not defined/ Not available

NA: Not available

NIOSH: National Institute for Occupational Safety and Health

NOAEL: No Observed Adverse Effect Level

OSHA: Occupational Safety and Health Administration.

PBT: Persistent, Bioaccumulative and Toxic

PGK: Packaging Instruction

PSG: Passengers

vPvB: Very Persistent, Very Bioaccumulative.

KSt: Explosion coefficient.

**Paragraphs modified from the previous revision:**

- 1. IDENTIFICATION OF THE SUBSTANCE/ MIXTURE AND OF THE COMPANY/ UNDERTAKING
- 3. COMPOSITION/INFORMATION ON INGREDIENTS
- 11. TOXICOLOGICAL INFORMATION
- 12. ECOLOGICAL INFORMATION
- 15. REGULATORY INFORMATION
- 16. OTHER INFORMATION