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SAFETY DATA SHEET EUCALYPTUS GLOBULUS, EXT

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

1.1. Product identifier

Product name	EUCALYPTUS GLOBULUS (BLUE GUM),
Product number	EXT
Synonyms; trade names	Eucalyptus Oil Globulus
REACH registration number	01-2119978250-37-XXXX
CAS number	84625-32-1
EC number	283-406-2

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

1.3. Details of the supplier of the safety data sheet

Supplier

Tiamo e.U.
Weideckerstraße 27
3004 Riederberg
Tel.: 0664 3941526
alexander.morgner@tiamo.at

1.4. Emergency telephone number

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards	Flam. Liq. 3 - H226
Health hazards	Skin Irrit. 2 - H315 Skin Sens. 1 - H317 Asp. Tox. 1 - H304
Environmental hazards	Aquatic Chronic 2 - H411
Human health	The liquid may be irritating to skin. Fatal if swallowed May cause skin sensitisation or allergic reactions in sensitive individuals.
Environmental	The product contains a substance which is toxic to aquatic organisms and which may cause long-term adverse effects in the aquatic environment.
Physicochemical	Flammable liquid and vapour

2.2. Label elements

EC number	283-406-2
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EUCALYPTUS GLOBULUS, EXT

Hazard pictograms



Signal word

Danger

Hazard statements

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.
 H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

P273 Avoid release to the environment.
 P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
 P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
 P331 Do NOT induce vomiting.
 P391 Collect spillage.
 P262 Do not get in eyes, on skin, or on clothing.

Contains

1, 8 cineole, dipentene, Alpha Pinene, Beta Pinene

Supplementary precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P233 Keep container tightly closed.
 P240 Ground and bond container and receiving equipment.
 P241 Use explosion-proof electrical equipment.
 P242 Use non-sparking tools.
 P243 Take action to prevent static discharges.
 P261 Avoid breathing vapour/ spray.
 P264 Wash contaminated skin thoroughly after handling.
 P272 Contaminated work clothing should not be allowed out of the workplace.
 P302+P352 IF ON SKIN: Wash with plenty of water.
 P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
 P321 Specific treatment (see medical advice on this label).
 P332+P313 If skin irritation occurs: Get medical advice/ attention.
 P333+P313 If skin irritation or rash occurs: Get medical advice/ attention.
 P362+P364 Take off contaminated clothing and wash it before reuse.
 P370+P378 In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish.
 P403+P235 Store in a well-ventilated place. Keep cool.
 P405 Store locked up.
 P501 Dispose of contents/ container in accordance with national regulations.

2.3. Other hazards

SECTION 3: Composition/information on ingredients

3.2. Mixtures

1, 8 cineole

>=70 <=95

CAS number: 470-82-6

EC number: 207-431-5

Classification

Flam. Liq. 3 - H226

Skin Sens. 1B - H317

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dipentene		>=4 <=12
CAS number: 138-86-3	EC number: 205-341-0	
M factor (Acute) = 1	M factor (Chronic) = 1	
Classification Flam. Liq. 3 - H226 Skin Irrit. 2 - H315 Skin Sens. 1 - H317 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410		
p-Cymene		>=0.01 <=6
CAS number: 99-87-6	EC number: 202-796-7	
Classification Flam. Liq. 3 - H226 Repr. 2 - H361 Asp. Tox. 1 - H304 Aquatic Chronic 2 - H411		
Alpha Pinene		>=0.01 <=9
CAS number: 80-56-8	EC number: 201-291-9	
M factor (Acute) = 1	M factor (Chronic) = 1	
Classification Flam. Liq. 3 - H226 Acute Tox. 4 - H302 Skin Irrit. 2 - H315 Skin Sens. 1 - H317 Asp. Tox. 1 - H304 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410		
Alpha Phellandrene		>=0.3 <=3
CAS number: 99-83-2	EC number: 202-792-5	
Classification Flam. Liq. 3 - H226 Asp. Tox. 1 - H304		
p-mentha-1,4-diene		>=0.01 <=6
CAS number: 99-85-4	EC number: 202-794-6	
Classification Flam. Liq. 3 - H226 Repr. 2 - H361 Aquatic Chronic 2 - H411		

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7-methyl-3-methyleneocta-1,6-diene		$\geq 0.5 \leq 2$
CAS number: 123-35-3	EC number: 204-622-5	
M factor (Acute) = 1		
Classification Flam. Liq. 3 - H226 Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Asp. Tox. 1 - H304 Aquatic Acute 1 - H400 Aquatic Chronic 2 - H411		
Beta Pinene		$\geq 0.01 \leq 1.5$
CAS number: 127-91-3	EC number: 242-060-2	
M factor (Acute) = 1	M factor (Chronic) = 1	
Classification Flam. Liq. 3 - H226 Skin Irrit. 2 - H315 Skin Sens. 1 - H317 Asp. Tox. 1 - H304 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410		
p-menth-1-en-8-ol		$\geq 0.01 \leq 2$
CAS number: 98-55-5	EC number: 202-680-6	
Classification Skin Irrit. 2 - H315 Eye Irrit. 2 - H319		

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	Remove person to fresh air and keep comfortable for breathing. If breathing stops, provide artificial respiration. Get medical attention if any discomfort continues.
Ingestion	Rinse mouth thoroughly with water. Do not induce vomiting. Get medical attention.
Skin contact	Wash skin thoroughly with soap and water. Continue to rinse for at least 15 minutes. Get medical attention if irritation persists after washing.
Eye contact	Remove any contact lenses and open eyelids wide apart. Rinse with water. Continue to rinse for at least 15 minutes. Get medical attention if irritation persists after washing.

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

Inhalation	May be fatal if swallowed and enters airways.
Skin contact	May cause an allergic skin reaction.

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

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Notes for the doctor Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Water spray. Carbon dioxide (CO₂). Dry chemicals. Foam.

Unsuitable extinguishing media Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

Specific hazards Burning produces irritating, toxic and obnoxious fumes.

5.3. Advice for firefighters

Special protective equipment for firefighters Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Provide adequate ventilation. Avoid contact with skin and eyes. Avoid inhalation of vapours. Wear protective clothing and gloves.

For emergency responders Wear an appropriate NIOSH / MSHA approved respirator if mist or vapour is generated.

6.2. Environmental precautions

Environmental precautions Do not discharge into drains or watercourses or onto the ground.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Absorb with liquid binding material (e.g sand, diatomaceous earth, acid or universal binding agents). Collect in closed and suitable containers for disposal.

6.4. Reference to other sections

Reference to other sections For personal protection, see Section 8. For waste disposal, see Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Apply good manufacturing practice and industrial hygiene practices. Keep containers sealed when not in use. Provide adequate ventilation. Keep away from heat, sparks and open flame.

Advice on general occupational hygiene Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Remove contaminated clothing and protective equipment before entering eating areas.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Store in tightly-closed, original container in a dry, cool and well-ventilated place.

7.3. Specific end use(s)

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SECTION 8: Exposure controls/Personal protection

8.1. Control parameters

1, 8 cineole (CAS: 470-82-6)

DNEL	<p>Workers - Inhalation; Long term systemic effects: 7.05 mg/m³</p> <p>Workers - Dermal; Long term systemic effects: 2 bw/day, mg/kg</p> <p>General population - Inhalation; Long term systemic effects: 1.74 mg/m³</p> <p>General population - Dermal; Long term systemic effects: 1 bw/day, mg/kg</p> <p>General population - Oral; Long term systemic effects: 600 mg/kg, bw/day</p>
PNEC	<p>- Fresh water; Short term 5.7 mg/l</p> <p>- Intermittent release, Fresh water; 0.57 mg/l</p> <p>- marine water; Short term 5.7 mg/l</p> <p>- STP; Short term 10 mg/l</p> <p>- Sediment (Freshwater); Short term 1.425 mg/kg</p> <p>- Sediment (Marinewater); Short term 0.142 mg/kg</p> <p>- Soil; Short term 0.25 mg/kg</p>

Alpha Pinene (CAS: 80-56-8)

DNEL	<p>Workers - Inhalation; Long term systemic effects: 3.8 mg/m³</p> <p>Workers - Dermal; Long term systemic effects: 0.54 bw/day, mg/kg</p> <p>General population - Inhalation; Long term systemic effects: 0.67 mg/m³</p> <p>General population - Dermal; Long term systemic effects: 0.19 mg/kg, bw/day</p> <p>General population - Oral; Long term systemic effects: 0.19 mg/kg, bw/day</p>
PNEC	<p>- Fresh water; Short term 0.606 mg/l</p> <p>- Fresh water, Intermittent release; 3.03 mg/l</p> <p>- marine water; Short term 0.061 mg/l</p> <p>- Intermittent release, marine water; 0.303 mg/l</p> <p>- STP; Short term 0.2 mg/l</p> <p>- Sediment (Freshwater); Short term 157 mg/kg</p> <p>- Sediment (Marinewater); Short term 15.7 mg/kg</p> <p>- Soil; Short term 31.7 mg/kg</p>

7-methyl-3-methylenoocta-1,6-diene (CAS: 123-35-3)

DNEL	<p>Workers - Dermal; Long term systemic effects: 0.83 mg/kg</p> <p>Workers - Inhalation; Long term systemic effects: 5.83 mg/m³</p> <p>General population - Dermal; Long term systemic effects: 0.42 mg/kg</p> <p>General population - Inhalation; Long term systemic effects: 1.25 mg/m³</p>
PNEC	<p>- STP; 0.2 mg/l</p> <p>- Soil; 1.015 mg/kg</p> <p>- Fresh water; 0.00028 mg/l</p> <p>- marine water; 0.0008 mg/l</p> <p>- Sediment (Freshwater); 5.022 mg/kg</p> <p>- Sediment (Marinewater); 0.502 mg/kg</p>

Beta Pinene (CAS: 127-91-3)

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DNEL

Workers - Inhalation; Long term systemic effects: 5.69 mg/m³
 Workers - Dermal; Long term systemic effects: 0.8 bw/day, mg/kg
 General population - Inhalation; Long term systemic effects: 1 mg/m³
 General population - Dermal; Long term systemic effects: 0.3 mg/kg, bw/day
 General population - Oral; Long term systemic effects: 0.3 bw/day, mg/kg

PNEC

- Fresh water; Short term 1.004 mg/l
 - Intermittent release, Fresh water; 5.02 mg/l
 - marine water; Short term 0.1 mg/l
 - STP; Short term 3.26 mg/l
 - Sediment (Freshwater); Short term 0.337 mg/kg
 - Sediment (Marinewater); Short term 0.034 mg/kg
 - Soil; Short term 0.067 mg/kg

p-menth-1-en-8-ol (CAS: 98-55-5)

PNEC

- Fresh water; Short term 68 mg/l
 - marine water; Short term 6.8 mg/l
 - STP; Short term 2.6 mg/l
 - Sediment (Freshwater); Short term 1.85 mg/kg
 - Sediment (Marinewater); Short term 0.185 mg/kg
 - Soil; Short term 0.329 mg/kg

8.2. Exposure controls

Protective equipment



Appropriate engineering controls

Provide adequate ventilation. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

Eye/face protection

Wear face protection.

Hand protection

Chemical resistant gloves (PVC)

Other skin and body protection

Wear apron or protective clothing in case of contact.

Hygiene measures

Good personal hygiene procedures should be implemented.

Respiratory protection

Generally unnecessary in a well ventilated area.
 If ventilation is insufficient, respiratory protection must be worn.

Thermal hazards

Wear suitable protective clothing to prevent heat.

Environmental exposure controls

Avoid discharging into drains.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance Liquid.

Colour Colourless to pale yellow.

Melting point +5 to -20°C

Initial boiling point and range 153 - 184°C

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Flash point	45.5 - 46.5°C Pinsky-Martens closed cup.
Upper/lower flammability or explosive limits	Technically not feasible.
Vapour pressure	ca 262 Pa @ 25°C
Relative density	0.905 - 0.925 @ 20°C
Partition coefficient	Eucalyptus is a natural complex substance. It is a mixture of several components, but three of them represent 90% of that mixture. LogP of each of these three components were calculated with the In Silico Algorithm For Environmental Risk Assessment toolbox, multilinear V.1.1. The range of the LogP varies as below. log Pow: 2.84 to 4.42
Auto-ignition temperature	270°C
Viscosity	2.456 mPa s @ 20°C 1.627 mPa s @ 40°C
Explosive properties	Scientifically unjustified.
9.2. Other information	
Refractive index	1.457 - 1.467
Hydrocarbon Content	

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity The substance is stable under normal storage and handling conditions.

10.2. Chemical stability

Stability Stable at normal ambient temperatures.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions None known.

10.4. Conditions to avoid

Conditions to avoid Avoid heat, flames and other sources of ignition.

10.5. Incompatible materials

Materials to avoid Strong oxidising agents. Strong reducing agents.

10.6. Hazardous decomposition products

Hazardous decomposition products Carbon dioxide (CO₂). Carbon monoxide (CO).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - oral

Notes (oral LD₅₀) REACH dossier information. The oral LD₅₀ for Eucalyptus oil is higher than 2000 mg/kg bw in mice therefore it is not classified according to the Annex VI to the Directive 67/548/EEC and the CLP Regulation (EC) No (1272-2008).

Acute toxicity - dermal

Notes (dermal LD₅₀) REACH dossier information. The dermal LD₅₀ for Eucalyptus oil is higher than 5000 mg/kg bw in rabbits therefore it is not classified according to the Annex VI to the Directive 67/548/EEC and the CLP Regulation (EC) No (1272-2008).

EUCALYPTUS GLOBULUS, EXT

Skin corrosion/irritation

Skin corrosion/irritation REACH dossier information. Irritating to skin.

SECTION 12: Ecological information

12.1. Toxicity

12.2. Persistence and degradability

Biodegradation The substance is readily biodegradable.

12.3. Bioaccumulative potential

Partition coefficient Eucalyptus is a natural complex substance. It is a mixture of several components, but three of them represent 90% of that mixture. LogP of each of these three components were calculated with the In Silico Algorithm For Environmental Risk Assessment toolbox, multilinear V.1.1. The range of the LogP varies as below. log Pow: 2.84 to 4.42

12.4. Mobility in soil

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment This product does not contain any substances classified as PBT or vPvB.

12.6. Other adverse effects

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal methods Recycling is preferred to disposal or burning. Disposal must be made according to official regulations. Must not be disposed together with household waste.

SECTION 14: Transport information

14.1. UN number

UN No. (ADR/RID) 1169

UN No. (IMDG) 1169

UN No. (ICAO) 1169

UN No. (ADN) 1169

14.2. UN proper shipping name

Proper shipping name (ADR/RID) EXTRACTS, AROMATIC, LIQUID

Proper shipping name (IMDG) EXTRACTS, AROMATIC, LIQUID

Proper shipping name (ICAO) EXTRACTS, AROMATIC, LIQUID

Proper shipping name (ADN) EXTRACTS, AROMATIC, LIQUID

14.3. Transport hazard class(es)

ADR/RID class 3

ADR/RID classification code F1

ADR/RID label 3

IMDG class 3

ICAO class/division 3

ADN class 3

EUCALYPTUS GLOBULUS, EXT

Transport labels



14.4. Packing group

ADR/RID packing group	III
IMDG packing group	III
ICAO packing group	III
ADN packing group	III

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant



14.6. Special precautions for user

EmS	F-E, S-D
ADR transport category	3
Emergency Action Code	3Y
Hazard Identification Number (ADR/RID)	30
Tunnel restriction code	(D/E)

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

SECTION 15: Regulatory information

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

EU legislation	Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).
Guidance	CHIP for everyone HSG228.

15.2. Chemical safety assessment

Inventories

EU - EINECS/ELINCS

Complies

Canada - DSL/NDSL

Complies

US - TSCA

Complies

US - TSCA 12(b) Export Notification

Not listed.

EUCALYPTUS GLOBULUS, EXT

Australia - AICS

Complies

Japan - ENCS

Complies

Korea - KECI

Complies

China - IECSC

Complies

Philippines – PICCS

Complies

New Zealand - NZIOC

Complies

Taiwan - TCSI

Complies

SECTION 16: Other information**Revision date** 18/08/2021**Revision** 7**Supersedes date** 26/09/2019**SDS number** 4666

Hazard statements in full

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.
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.

This 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. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's Responsibility to satisfy himself as to the suitability of such information for his own particular use.