



SECTION 1: Identification

1.1. Identification

Substance Name	EUCALYPTUS CITRIODORA
CAS No	8000-48-4
Alternate CAS No	85203-56-1

1.2. Recommended use and restrictions on use

Recommended Use	Industrial uses: Uses of substances as such or in preparations' at industrial sites
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1.3. Supplier

Camden-Grey Essential Oils, Inc.
5751 Halifax Ave., Unit 2
Fort Myers, FL 33912
www.camdengrey.com

1.4. Emergency telephone number

Emergency number : Chemtrec -1.800.424.9300/ 1.703.527.3887 CCN330

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS-US Classification

Flam. Liq 4	H227	Combustible liquid
Skin Irrit 2 Skin	H315	Causes skin irritation
Sens 1	H317	May cause an allergic skin reaction
Asp. Tox 1	H304	May be fatal if swallowed and enters airways
Aquatic Acute 2	H401	Toxic to aquatic life
Aquatic Chronic 2	H411	Toxic to aquatic life with long lasting effects

2.2. GHS Label elements, including precautionary statements

GHS-US labelling

Hazard pictograms (GHS-US)



GHS07



GHS08



GHS09

Signal word (GHS-US)

Hazard statements (GHS-US)

Danger

H227 - Combustible liquid
H304 .May be fatal if swallowed and enters airways.
H315 .Causes skin irritation.
H317 - May cause an allergic skin reaction.
H401 - Toxic to aquatic hie
H411 • Toxic to aquatic life with long lasting effects

Precautionary statements (GHS-US)

P210 - Keep away from heat. hot surfaces . sparks.open flames and other ignition sources
No smoking.
P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.
P264 • Wash hands thoroughly after handling
P272 - Contaminated work clothing must not be allowed out of the workplace
P273 - Avoid release to the environment
P280 - Wear protective gloves/protective clothing/eye protection P301+P310
- IF SWALLOWED:Immediately call a POISON CENTER/doctor P302+P352
- IF ON SKIN:Wash with plenty of water/...
P321 • Specific treatment (see supplemental first aid instruction on this label)
P331 - Do NOT induce vomiting
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.
P363 .Wash contaminated clothing before reuse.

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P370+P378 • In case of fire: Use media other than water to extinguish.
P391 • Collect spillage
P403+P235 - Store in a well-ventilated place.Keep cool.
P405 - Store locked up
P501 - Dispose in a safe manner in accordance with local national regulations

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

No applicable

SECTION 3: Composition/information on ingredients

3.1. Substance

No applicable

3.2. Mixture

Name	Product identifier	%	GHS-US classification
Citronellal	(CAS-No) 106-23-0	65-85	Flam Uq 4, H227 Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Acute 2, H401 Aquatic Chronic 2, H411
dl-Citronellol	(CAS No) 106-22-9	5 - 10	Skin Irrit 2. H315 Skin Sens 1B, H317 Aquatic Acute 3, H402

Full text of H-statements - see section 16

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aidmeasures general	Never give anything by mouth to an unconscious person. If you feel unwell. seek medical advice (show the label where possible) Call a physician immediately
First-aid measures after inhalation	Remove person to fresh air and keep comfortable for breathing Assure fresh air breathing Allow the victim to rest
First-aid measures after skincontact	Wash with plenty of water/... Wash contaminated clothing before reuse If skin irritation occurs: Get medical advice/attention Specific treatment (see supplemental first aid instruction on this label). If skin irritation or rash occurs: Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs Get medical advice/attention.
First-aidmeasures after eye contact	If eye irritation persists. Get medical advice/attention Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention
First-aid measures after ingestion	Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention Do not induce vomiting. Call a physician immediately

4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects after inhalation	May cause an allergic skin reaction.
Symptoms/ effects after skin contact	Causes skin irritation. Irritation. May cause an allergic skin reaction.
Symptoms/ effects after eye contact	Causes serious eye irritation. Eye irritation.
Symptoms/ effects after ingestion	Risk of lung oedema

4.3. Immediate medical attention and special treatment, if necessary

No additional information available

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media	dry chemical powder Sand. Water spray Dry powder Foam. Carbon dioxide..
Unsuitable extinguishing media	Do not use a heavy water stream.

5.2. Specific hazards arising from the chemical

Reactivity	The product is non-reactive under normal conditions of use, storage and transport
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5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions	Use water spray or <i>log lor</i> cooling exposed containers Exercise caution when fighting any
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chemical fire. Prevent fire fighting water from entering the environment

Protection during firefighting

Do not enter fire area without proper protective equipment, including respiratory protection. Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures

Ventilate spillage area. Evacuate unnecessary personnel. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray.

6.1.2. For emergency responders

Protective equipment

Do not attempt to take action without suitable protective equipment. Equip cleanup crew with proper protection. For further information refer to section 8: "Exposure controls/personal protection"

Emergency procedures

Ventilate area.

6.2. Environmental precautions

Avoid release to the environment. Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters

6.3. Methods and material for containment and cleaning up

For containment

Collect spillage.

Methods for cleaning up

Take up liquid spill into absorbent material. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

Other information

Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling

Ensure good ventilation of the work station. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour Avoid contact with skin and eyes Wear personal protective equipment. Avoid breathing dust/fume/gas/mist/vapours/spray.

Hygiene measures

Wash hands thoroughly after handling. Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions

Keep only in the original container in a cool, well ventilated place away from ; Keep container closed when not in use. Store locked up. Store in a well-ventilated place. Keep cool.

Incompatible products

Strong bases. Strong acids.

Incompatible materials

Sources of ignition. Direct sunlight.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Appropriate engineering controls

Appropriate engineering controls

Ensure good ventilation of the work station

Personal protective equipment

Avoid all unnecessary exposure.

Hand protection

Wear protective gloves/protective clothing/eye protection protective gloves

Eye Protection

Chemical goggles or safety glasses Safety glasses

Skin and body

Wear suitable protective clothing.

Respiratory protection

Wear appropriate mask.

Environmental exposure controls

Avoid release to the environment.

Other Information

Do not eat. drink or smoke during use

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Liquid
Colour	Colourless
Odour	Characteristic
Odour threshold	No data available
pH	No data available
Melting point	Not applicable
Freezing point	No data available
Boiling point	No data available
Flash point	170 °F
Relative evaporation rate (butylacetate=1)	No data available
Flammability (solid, gas)	No data available
Explosive limits	No data available
Explosive properties	No data available
Oxidising properties	No data available
Vapour pressure	1.7 mm Hg 20°C
Relative density	0865
Relative vapour density at 20 °C	No data available
Solubility	Poorly soluble in water.
Log Pow	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available
Viscosity, kinematic	No data available
Viscosity, dynamic	No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Not established

10.3. Possibility of hazardous reactions

Not established

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

fume Carbon monoxide. Carbon dioxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity Not classified

Citronellal (106-23-0)	
LD50 oral rat	2420 mg/kg (Rat)
LD50 dermal rabbit	> 5000 mg/kg (Rabbit)
ATE US (oral)	2420 mg/kg bodyweight
dl-Citronellol (106-22-9)	
LD50 oral rat	3450 mg/kg (Rat)

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LD50 dermal rabbit	2650 mg/kg (Rabbit)
ATE US (oral)	3450 mg/kg bodyweight
ATE US (dermal)	2650 mg/kg bodyweight

Skin corrosion/irritation	Causes skin irritation.
Serious eye damage/irritation	Not classified
Respiratory or skin sensitisation	May cause an allergic skin reaction
Germ cell mutagenicity	Not classified
	Based on available data, the classification criteria are not met
Carcinogenicity	Not classified
Reproductive toxicity	Not classified
	Based on available data, the classification criteria are not met
STOT-single exposure	Not classified
STOT-repeated exposure	Not classified
Aspiration hazard	May be fatal if swallowed and enters airways.
Potential adverse human health effects and symptoms	Based on available data, the classification criteria are not met.
Symptoms/effects after inhalation	May cause an allergic skin reaction
Symptoms/effects after skin contact	Causes skin irritation. Irritation. May cause an allergic skin reaction
Symptoms/effects after eye contact	Causes serious eye irritation. Eye irritation.
Symptoms/effects after ingestion	Risk of lung oedema.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general	Toxic to aquatic life with long lasting effects.
Ecology - water	Toxic to aquatic life with long lasting effects.

Citronellal (106-23-0)	
LC50 fish 1	22 mg/l (96 h; Leuciscus idus)
EC50 Daphnia 1	10 mg/l (24 h; Daphnia magna)
EC50 Daphnia 2	8.7 mg/l (48 h; Daphnia magna)
dl-Citronellol (106-22-9)	
LC50 fish 1	> mg/l >10 <22.96 h; Leuciscus idus
EC50 Daphnia 1	17 mg/l (48 h; Daphnia magna)
Threshold limit algae 1	2.4 mg/l (72 h; Algae)

12.2. Persistence and degradability

EUCALYPTUS CITRIODORA (8000-48-4)	
Persistence and degradability	May cause long-term adverse effects in the environment.
Citronellal (106-23-0)	
Persistence and degradability	Readily biodegradable in water.
Chemical oxygen demand (COD)	2.67 g O ₂ /g substance
fhOD	2.1) g O ₂ /g substance
dl-Citronellol (106-22-9)	
Persistence and degradability	Readily biodegradable in water. May cause long-term adverse effects in the environment.
Chemical oxygen demand (COD)	2.05 e O ₂ /g substance
ThOD	2.961 g O ₂ /g substance

12.3. Bioaccumulative potential

EUCALYPTUS CITRIODORA (8000-48-4) Bioaccumulative potential	Not established.
Citronellal (106-23-0)	
BCF other aquatic organisms 1	280 (QSAR)
Log Pow	3.53 - 3.62
Bioaccumulative potential	Low bioaccumulation potential.
I dl-Citronellol (106-22-9)	

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Log Pow	3.41 - 3.91
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12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Other information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods	Dispose of contents/container in accordance with licensed collector s sorting instructions.
Product/Packaging disposal recommendations	Dispose in a safe manner in accordance with local/national regulations. Dispose in a safe manner in accordance with local/national regulations.
Ecology - waste materials	Avoid release to the environment

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT
Not regulated for transport

Transportation of Dangerous Goods

No additional information available

Transport by sea

UN-No. (IMDG)	3082
Proper Shipping Name (IMDG)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Class (IMDG)	9 - Miscellaneous dangerous substances and articles
Packing group (IMDG)	III substances presenting low danger

Air transport

UN-No. (IATA)	3082
Proper Shipping Name (IATA)	Environmentally hazardous substance, liquid, n.o.s
Class (IATA)	9 - Miscellaneous dangerous Good
Packing group (IATA)	III - Minor Danger

SECTION 15: Regulatory information

15.1. US Federal regulations

EUCALYPTUS CITRIODORA (8000-48-4)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
alpha-Pinene (80-56-8)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
ISOPULEGOL (89-79-2)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
+d-Limonene (5989-27-5)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
Citronellal (106-23-0)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
dl-Citronellol (106-22-9)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2 International regulations

CANADA

No additional information available

EU- Regulations

No additional information available

National Regulations

No additional information available

15.3. US State regulations

alpha-Pinone (80-56-8)
U S. - New Jersey - Right to Know Hazardous Substance List

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SECTION 16: Other information

Data sources	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, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.
Other information	None

Full text of H-statements:

H227	Combustible liquid
H304	May be fatal if swallowed and enters airways
H315	Causes skin irritation.
H317	May cause an allergic skin reaction
H401	Toxic to aquatic life
H402	Harmful to aquatic life
H411	Toxic to aquatic life with long lasting effects.

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