Material Safety Data Sheet

According to EU Regulation 1907/2006

Eucalyptus Globulus Essential Oil

Date Created:

18.04.2017

Date Revised:

19.02.2018

SECTION 1: Identification of the substance/mixture and of the company/undertaking					
1.1 Product Identifier					
Product Name	Eucalyptus Glob	Eucalyptus Globulus Essential Oil			
Biological Definition	Eucalyptus Globulus Leaf Oil is the volatile oil obtained from the fresh leaves of the Eucalyptus, Eucalyptus Globulus and other species of Eucalyptus, Myrtaceae.				
INCI Name	Eucalyptus Glob	ulus Leaf Oil			
Synonyms & Trade Names					
Internal Product Code	R00162				
REACH Status	Registered No: 01-21199787250-37-0000				
CAS-No	800-48-4 / 84625-32-1	EC No.	283-406-2	EINECS No.	283-406-2

1.2 Details of the supplier of the safety data sheet		
Company Identification	Cerberus Chemicals Ltd	
	Vicarage Barn, Southport Road	
	Scarisbrick, Lancashire	
	L40 8HQ - UK	
	Email: info@cerberuschemicals.com	
1.3 Details of the supplier of the safety data sheet		
Emergency Contact	Mr Jordan Boynton - Tel: 01704 840 202	

SECTION 2: Hazards identifica	ation		
2.1 Classification of the subs	tance or mixture		
Classification (67/548/EEC)	The Full Text for all Hazard Statements are displayed in Section 16		
Classification (EU 1272/2008)	Physical hazards: Flam. Liq. 3 - H226		
	Health hazards: Asp. Tox. 1 - H304, Skin Irrit. 2 - H315, Skin Sens. 1 - H317		
	Environmental hazards: Aquatic Chronic 2 - H411		
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2.2 Label elements			
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GHS Label:			
	GHS07 GHS09 GHS08 GHS02		
Signal Word:	Danger		
Contains	1,8 cineole, d-Limonene, Alpha Pinene, Beta Pinene		
Contains			
	H226 Flammable liquid and vapour		
	H304 May be fatal if swallowed and enters arways		
Hazard Statements	H315 Causes skin irritation		
	H317 May cause an allergic skin reaction		
	H411 Toxic to aquatic life with long lasting effects		
	P273 Avoid release to the environment		
	P280 Wear protective gloves/protective clothing/eye protection/face protection		
Due continue my Statemante	P301+P310 IF SWALLOWED: Immedietaly call a POISON CENTER/doctor.		
Precautionary Statements	P331 Do NOT induce vomiting		
	P391 Collect spillage		
	P262 Do not get in eyes, on skin, or on clothing.		
	P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition		
	sources. No smoking.		
	P233 Keep container tightly closed.		
	P240 Ground/ bond container and receiving equipment.		
	P241 Use expliosion-proof electrical equipment.		
	P242 Use only non-sparking tools.		
	P243 Take precautionary measures against static discharge.		
	P261 Avoid breating vapour/spray		
	P264 Wash contaminated skin thoroughly after handling.		
	P272 Contaminated work clothing should not be allowed out of the workplace.		
Supplementary Precautionary	P302+P352 IF ON SKIN: Wash with plenty of water.		
Statements	P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated		
	clothing. Rinse skin with water/shower.		
	P321 Specific treatment (see medical advise 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 t		
	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		
Adverse physio-chemical	Flammable liquid and vapour.	
properties		
Adverse effects on human	The liquid may be irritating to skin. Fatal if swallowed. May cause skin sensitisa-	
health	tion or allergic reactions in sensitive individuals.	

SECTION 3: Composition/information on ingredients

3.1 Substances

>80% 1,8 Cineol CAS No: 470-82-6 EC No.: 207-431-5

Classification (EC 1272/2008) Flam. Liq. 3 - H226, Skin Sens. 1B - H317

≤ 10% d-Limonene **CAS No:** 5989-27-5 **EC No.:** 227-813-5

Classification (EC1272/2008) Flam. Liq. 3 - H226, Asp. Tox. 1 H304, Skin Irrit. 2 - H315, Skin Sens. 1 - H317, Aquatic

Acute 1 - H400, Aquatic Chronic 1 - H410

≤ 6% para-Cymene **CAS No:** 99-87-6 **EC No.:** 202-796-7 Classification (EC 1272/2008); Flam. Liq. 3 - H226, Asp. Tox. 1 - H304, Eye Irrit. 2 - H319

≤ 9% alpha-Pinene CAS No: 80-56-8 EC No.: 201-291-9

Classification (EC 1272/2008); Flam. Liq. 3 - H226, Skin Irrit. 2 - H315, Skin Sens. 1 - H317, Asp. Tox. 1 - H304,

Aquatic Acute 1 - H400, Aquatic Chronic 1 - H410

≤ **3**% alpha-Phellandrene **CAS No**: 99-83-2 **EC No.**: 202-792-5

Classification (EC 1272/2008); Flam. Liq. 3 - H226, Asp. Tox. 1 - H304

≤ 6% p-mentha-1,4-diene CAS No: 99-85-4 EC No.: 202-794-6

Classification (EC 1272/2008); Flam. Liq. 3 - H226, Asp. Tox. 1 - H304

≤ **2**% 7-methyl-3-methyleneocta-1,6-diene **CAS No:** 123-35-3 **EC No.:** 204-622-5

Classification (EC 1272/2008); Flam. Liq. 3 - H226, Skin Irrit. 2 - H315, Eye Irrit. 2 - H319, Asp. Tox. 1 - H304, Aquatic

Acute 1 - H400, Aquatic Chronic 1 - H410

≤ 2% p-menth-1-en-8-ol **CAS No:** 99-55-5 **EC No.:** 202-680-6

Classification (EC 1272/2008); Skin Irrit. 2 - H315, Eye Irrit. 2 - H319

≤ 1.5% beta-Pinene **CAS No:** 127-91-3 **EC No.:** 204-872-5

Classification (EC 1272/2008); Flam. Liq. 3 - H226, Skin Irrit. 2 - H315, Skin Sens. 1 - H317, Asp. Tox. 1 - H304,

Aquatic Acute 1 - H400, Aquatic Chronic 1 - H410

3.2 Mixtures		
EU INCI	US INCI	
N/A	N/A	

SECTION 4: First aid measures		
4.1 Description of first aid measures		
General Information	See categories below.	
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

Notes for the doctor - Treat symptomatically.

SECTION 5: Fire Fighting Measures

5.1 Extinguishing Media

Suitable Extinguishing Media: Carbon Dioxide (CO2), dry chemical, Foam, Water Spray.

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 can produce irritating, toxic and obnoxious fumes.

5.3 Advice for fire-fighters

Special Protective equipment for fire-fighters

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

SECTION 6: Accidental Release Measures

6.1 Personal precautions

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

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

6.3 Methods and material for containment and 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 References to other sections.

Please refer to Section 8 - Exposure Controls/Personal Protection for further information on personal precautions.

Please refer to Section 13 - Disposal Considerations for further information on waste treatment.

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

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

7.3 Specific end use(s)

No additional data available

SECTION 8: Exposure Controls/Personal Protection

8.1 Control Parameters

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

DNEL

Workers - Dermal; Long term systemic effects: 2 mg/kg

General population - Oral; Long term systemic effects: 600 mg/kg General population - Dermal; Long term systemic effects: 1 mg/kg

General population - Inhalation; Long term systemic effects: 1.74 mg/m³

PNEC

- STP; 10 mg/l
- Soil; 0.2 mg/kg
- Intermittent release; 0.57 mg/l
- Fresh water; 0.057 mg/l
- Marine water; 0.0057 mg/l
- Sediment (Freshwater); 0.06732 mg/kg
- Sediment (Marinewater); 0.00673 mg/kg

Alpha Pinene (CAS: 80-56-8)

DNEL

Workers - Inhalation; Long term systemic effects: 5.98 mg/m³ General population - Oral; Long term systemic effects: 0.31 mg/kg General population - Inhalation; Long term systemic effects: 1.06 mg/m³

PNEC

- STP; 3.26 mg/l
- Soil; 0.539 mg/kg
- Fresh water; 0.004 mg/l
- Marine water; 0.0004 mg/l
- Sediment (Freshwater); 1.033 mg/kg
- Sediment (Marinewater); 0.103 mg/kg

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

DNEL

Workers - Dermal; Long term systemic effects: 0.83 mg/kg

Workers - Inhalation; Long term systemic effects: 5.83 mg/m³

General population - Dermal; Long term systemic effects: 0.42 mg/kg General population - Inhalation; Long term systemic effects: 1.25 mg/m³

PNEC

- STP; 0.2 mg/l
- Soil; 1.015 mg/kg
- Fresh water; 0.00028 mg/l
- Marine water; 0.0008 mg/l
- Sediment (Freshwater); 5.022 mg/kg
- Sediment (Marinewater); 0.502 mg/kg

8.2 Exposure Controls **Eye protection** Use safety glasses. **Hand protection** Chemical resistant gloves required. Wear suitable protective clothing to prevent heat. Wear apron or protective Other protection clothing in case of contact. Generally unnecessary in a well ventilated area. If ventilation is insufficient, **Respiratory equipment** respiratory protection must be worn. No specific hygiene procedures noted, but good personal hygiene practices are **Hygiene measures** always advisable, especially when working with chemicals. Provide adequate Provide adequate ventilation. Facilities storing or utilizing this **Engineering measures** material should be equipped with an eyewash facility and a safety shower.

SECTION 9: Physical and Chemical Properties		
9.1 Information on basic physical and chemical properties		
Appearance	Clear liquid	
Colour	Colourless to pale yellow	
Odour	Characteristic	
Relative Density	0.906 to 0.927	
Flash Point (°C)	45.5 - 46.5 (Pensky-Martens Closed Cup)	
Refractive Index	1.456 - 1.47	
Melting Point (°C)	+5 to -20	
Boiling Point (°C)	153 - 184	
Vapour Pressure	Ca 262 Pa	
Solubility in Water @20°C	No data	
Auto-Ignition Temp. (°C)	270	

9.2 Other information

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 Algorythm For Environmental Risk Assessment toolbox, multilinear V.1.1.

The range of the LogP varies as below. log Pow: 2.84 to 4.42

SECTION 10: Stability and Reactivity

10.1 Reactivity

The substance is stable under normal storage and handling conditions.

10.2 Chemical stability

Stable under normal temperature conditions.

10.3 Possibility of hazardous reactions

None known.

10.4 Conditions to avoid

Avoid heat, sparks and other sources of ignition.

10.5 Incompatible materials

Materials to avoid

Strong oxidising agents. Strong reducing agents.

10.6 Hazardous decomposition products

Combustion produces:

- Carbon Monoxide (CO)
- Carbon Dioxide (CO2)
- Smoke

SECTION 11: Toxicological Information		
11.1 Information on toxicological effects.		
Acute toxicity:	Not classified.	
	Acute toxicity - oral	
	Notes (oral LD₅o)	
	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 LD₅o)	
	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).	
LD50 (Oral):	No data available	
LD50 (Dermal):	No data available	
Skin corrosion / irritation:	Causes skin irritation	
Serious eye damage / irritation:	Not classified.	
Respiratory / skin sensitisation:	May cause an allergic skin reaction.	
Germ cell mutagenicity:	Not classified.	
Carcinogenicity:	Not classified.	
Reproductive toxicity:	Not classified.	
STOT-single exposure:	Not classified.	
STOT-repeated exposure:	Not classified.	
Aspiration hazard:	May be fatal if swallowed and enters airways.	
Other information:	N/A	

SECTION 12: Ecological Information

12.1 Toxicity

Toxic to aquatic life with long lasting effects

12.2 Persistence and degradability

The substance is readily biodegradable

12.3 Bio-accumulative 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 Algorythm 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

No additional data available.

12.5 Results of PBT and VPVB assessment

This product does not contain any substances classified as PBT or vPvB.

12.6 Other adverse effects

No additional data available.

SECTION 13: Disposal Considerations

13.1 Waste Treatment 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		
Warning Icon	FLAMMABLE	
Proper Shipping Name	EXTRACTS AROMATIC LIQUID	
UN No. Road	UN 1169	
ADR Class	Class 3	
Hazard No. (ADR)	30	
Hazchem Code	3Y	
UN No. SEA	UN 1169	
IMDG Class	Class 3	
IMDG Pack Gr.	Pk Gp III	
EMS	F-E, S-D	
UN No. AIR	UN 1169	
Air Class	Class 3	
Air Pack Gr.	Pk Gp III	

SECTION 15: Regulatory Information		
15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture		
EU Directives	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of	
	18th Dec 2006 Concerning the Registration, Evaluation, Authorisation and	
	Restriction of Chemicals (REACH), establishing a European Chemicals Afency,	
	amending Directive 199/45/EC and repealing Council Regulation (EEC) No793/93	
	and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769	
	/EEC and Commission Directives 91/155/EEC, 93/67/EEC, and 93/105/EEC and	
	2000/21/EC including amendments.	
Statutory Instruments	The chemicals (Hazard Information and Packaging for Supply Regulations 2009	
	(S.I. 2009 No 716)	
Approved Code of Practice	Classification and Labelling of Substances and Preperations Dangerous for	
	Supply. Safety Data Sheets for Subtances and Preperations.	
Guidance Notes	Workplace Exposure Limits EH40. CHIP for everyone HSG 108.	

15.2 Chemical safety assessment

An assessment has not been executred as this is not a hazardous material according to article 31 of REACH 1907/2006.

SECTION 16: Other Information		
Training Instructions:	Refer to possible hazard before use of this product.	

Abbreviations and acronyms:

Appreviations and acronyms.	
MSDS	Material Safety Data Sheet
INCI	International Nomenclature of Cosmetic Ingredients
CAS	Chemical Abstract Service
IMDG	International Maritime Code for Dangerous Goods
	Accord européen sur le transport des marchandises dangereuses par Route
ADR	(European Agreement concerning the International Carriage of Dangerous Goods
	by Road)
RID	International Carriage of Dangerous Goods by Rail
ICAO	International Civil Aviation Organization
AND	International Carriage of Dangerous Goods by Inland Waterways
GHS	Globally Harmonized System of Classification and Labelling of Chemicals
Trem Card	Transport Emergency Card
STOT	Specific Target Organ Toxicity
N/A	Not Available
Hazard Statements in Full:	H226 Flammable liquid and vapour.
	H304 May be fatal if swallowed or 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 wth long lasting effects.
	H411 Toxic to aquatic life with long lasting effects.

Complies with REACH guidance for SDS as circulated by ECHA 2011.

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Revisions in this document

Date (DD-MM-YYYY)	Change	Revision Number
18/04/2017	New Issue	0
19/02/2018	Full MSDS	1