

## Safety Data Sheet

In accordance with REACH Regulation EC No.1907/2006

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

#### 1.1. Product identifier

<b>Product name:</b>	Eucalyptus Globulus Essential Oil
<b>CAS number:</b>	84625-32-1/8000-48-4
<b>EINECS number:</b>	283-406-2
<b>Other names:</b>	Eucalyptus Globulus, Ext., Eucalyptus Oil Globulus, Eucalyptus Oil Rectified, Eucalyptus Globulus Leaf Oil
<b>INCI name:</b>	Eucalyptus Globulus Leaf Oil

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

<b>Industrial use:</b>	Washing and cleaning products.
<b>Professional use:</b>	Washing and cleaning products; polishes and wax blends.
<b>Consumer use:</b>	Washing and cleaning products; polishes and wax blends; cosmetics; biocides; air care products, tobacco products.

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

<b>Company name:</b>	Bath and Body Base Ltd 2A Laurel Way Bishop Auckland Co. Durham DL14 7NF
<b>Tel:</b>	07493 064263
<b>Email:</b>	technical@bathandbodybase.com

#### 1.4. Emergency telephone number

<b>Emergency tel:</b>	07493 064263
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### Section 2: Hazards identification

#### 2.1. Classification of the substance or mixture

<b>Classification according to Regulation (EC) No 1272/2008 [CLP]:</b>	Flam. Liq. 3 – H226 Asp. Tox. 1 – H304 Skin Irrit. 2 – H315 Skin Sens. 1B – H317 Aquatic Chronic 2 – H411
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#### 2.2. Label elements

##### Label elements labelling according to Regulation (EC) No 1272/2008 [CLP]

<b>Hazard statements:</b>	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.
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<b>Signal words:</b>	DANGER
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**Hazard pictograms:**

**Precautionary statements  
(prevention):**

P210: Keep away from heat/sparks/open flames/hot surfaces. No smoking.  
 P233: Keep container tightly closed.  
 P240: Ground and bond container and receiving equipment.  
 P241: Use explosion-proof equipment.  
 P242: Use non-sparking tools.  
 P243: Take actions to prevent static discharges.  
 P261: Avoid breathing dust/fume/gas/mist/vapours/spray.  
 P264: Wash hands thoroughly after handling.  
 P272: Contaminated clothing should not be allowed out of the workplace.  
 P273: Avoid release to the environment.  
 P280: Wear protective gloves/clothing/eye-protection/face protection.

**Precautionary statements  
(response):**

P301+P316: IF SWALLOWED: Get emergency medical help immediately.  
 P331: DO NOT induce vomiting.  
 P302+P352: IF ON SKIN: wash with plenty of water.  
 P333+P317: IF SKIN irritation or rash occurs: Get medical help.  
 P362+P364: Take off contaminated clothing and wash it before reuse.  
 P370 + P378: In case of fire: Use alcohol-resistant foam, dry powder or CO2 to extinguish.  
 P391: Collect spillage.

**Precautionary statements  
(storage):**

P403+P235: Store in a well-ventilated place. Keep cool.  
 P405: Store locked up.

**Precautionary statements  
(disposal):**

P501: Dispose of contents/container in accordance with local/regional/national/international regulations. Manufacturer/supplier or the competent authority to specify whether disposal requirements apply to contents, container or both.

**2.3. Other hazards**
**Other hazards:**

All essential oils are highly concentrated so have strong aromas and colour that can stain. Eucalyptus Oil contains over 10% Hydrocarbons (19%).

Substance is not identified as having endocrine disrupting properties according to Regulation (EU) 2017/2100.

Substance does not meet the criteria for vPvB and PBT according to Regulation (EC) No 1907/2006, Annex XIII.

**Section 3: Composition/information on ingredients**
**3.1. Chemical identity of the substance**
**Chemical identity:**

Eucalyptus Globulus, Ext.

**Common names(s),  
synonym(s):**

Eucalyptus Globulus Leaf Oil

### 3.2. Substances

**Mixture/Natural Complex Substance (NCS):**

This is a Natural Complex Substance (NCS). The substance has a natural variability in its composition. It is obtained by steam distillation of the leaves of Eucalyptus globulus leaves.

**Chemical Identity of ingredients:**

Classification according to COMMISSION REGULATION (EU) 2017/542 of 22 March 2017 amending Regulation (EC) No 1272/2008

Major components of this natural complex substance are:

80 to 85% **1,8-Cineole** (Eucalyptol) – CAS 470-82-6, EC 207-431-5: Flam. Liq. 3, H226; Skin Sens. 1B, H317

tr to 15% **Limonene** – CAS 5989-27-5, EC 227-813-5: Flam. Liq. 3, H226; Asp. Tox. 1, H304; Skin Irrit. 2, H315; Skin Sens. 1, H317; Aquatic Acute 1, H400; Aquatic Chronic 1, H410

tr to 10%  **$\alpha$ -Pinene** – CAS 80-56-8, EC 201-291-9: Flam. Liq. 3, H226; Acute Tox 4, H302; Asp. Tox. 1, H304; Skin Irrit. 2, H315; Skin Sens. 1B, H317; Aquatic Acute 1, H400; Aquatic Chronic 1, H410

1 to 6% **p-Cymene** – CAS 99-87-6, EC 202-796-7: Flam. Liq. 3, H226; Asp. Tox. 1, H304; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335 (Lung, Oral); Repr. 2, H361 (Treatment related); Aquatic Chronic 2, H411

1 to 4%  **$\gamma$ -Terpinene** – CAS 99-85-4, EC 202-794-6: Flam. Liq. 3, H226; Repr. 2, H361; Aquatic Chronic 2, H411

tr to 2%  **$\alpha$ -Terpineol** – CAS 98-55-5, EC 202-680-6: Skin Irrit. 2, H315; Eye Irrit. 2 H319

tr to 1.5  **$\alpha$ -Phellandrene** – CAS 99-83-2, EC 202-792-5: Flam. Liq. 3, H226; Asp. Tox. 1, H304

tr to 1.5%  **$\beta$ -Pinene** – CAS 127-91-3, EC 204-872-5: Flam. Liq. 3, H226; Asp. Tox. 1, H304; Skin Irrit. 2, H315; Skin Sens. 1, H317; Aquatic Acute 1, H400; Aquatic Chronic, 1 H410

tr to 1%  **$\beta$ -Mycene** – CAS 123-35-3, EC 204-622-5: Flam. Liq. 3, H226; Asp. Tox. 1, H304; Skin Irrit. 2, H315; Skin Sens. 1B, H317; Eye Irrit. 2, H319; Aquatic Acute 1, H400; Aquatic Chronic 2, H411

## Section 4: First aid measures

### 4.1. Description of first aid measures

<b>General advice:</b>	In all cases of doubt, or when symptoms persist, seek medical attention.
<b>Skin contact:</b>	Flush skin with soap and plenty of water for at least 15 minutes. Get medical aid if irritation develops or persists.
<b>Eye contact:</b>	Immediately flush eyes with plenty of water for at least 15 minutes. Get medical aid.
<b>Swallowed:</b>	Rinse mouth with water. Do NOT induce vomiting. Get medical aid.
<b>Inhalation:</b>	Move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.
<b>Self-protection of First Aider:</b>	Use personal protective equipment as described in Section 8 if substance is present.

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

**Most important symptoms and effects:** May be fatal if swallowed and enters airways.  
May cause an allergic skin reaction.

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

**Immediate/special treatment:** See Section 4.1

**Section 5: Fire-fighting measures****5.1. Extinguishing media**

**Suitable extinguishing media:** Water spray, carbon dioxide, dry chemical powder or appropriate foam.

**Unsuitable extinguishing media:** Full water jet.

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

**Hazardous combustion products:** May produce fumes of carbon monoxide and carbon dioxide.  
Moderate explosion hazard when exposed to flame.

**5.3. Advice for fire-fighters**

**Advice for fire-fighters:** Containers close to fire should be removed or cooled with water. Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

**5.4. Emergency action code**

**Emergency action code:** 3[Y] (Foam + BA & Fire Kit)

**Section 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

**For non-emergency personnel:** Use personal protective equipment. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation.

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

**6.2. Environmental precautions**

**Environmental precautions:** Do not allow material to be released to the environment (soil/surface - or ground water/drains/sewers). Inform respective authorities in case of seepage into water course or sewage system.

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

**Clean-up procedures:** Clean up spillage promptly. Remove ignition sources. Provide adequate ventilation. Avoid excessive inhalation of vapours. Gross spillages should be contained by use of sand or inert powder and disposed of according to the local regulations. Pick up and arrange disposal without creating mist/aerosol/excessive vapours. Keep in upright, suitable, closed containers for disposal.

#### 6.4. Reference to other sections

**Reference to other sections:** Take hazard and precautionary phrases (Section 2) and Sections 7, 8 and 13 into account.

### Section 7: Handling and storage

#### 7.1. Precautions for safe handling

**Protective measures:** Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where mist/aerosols/excessive vapours are formed. Normal measures for preventive fire protection.

**Advice on general occupational hygiene:** Do not eat, drink and smoke in work areas. Wash hands after use. Remove contaminated clothing and protective equipment before entering eating areas.

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

**Storage:** Keep container tightly closed in a dry and well-ventilated place. Keep away from sources of heat or flame.

**Packaging:** Refer to Section 16 for safe packaging information.

**Incompatibilities:** Refer to Section 10.

#### 7.3. Specific end use(s)

**Recommendations:** None specified (as per REACH dossier).

### Section 8: Exposure controls/personal protection

#### 8.1. Control parameters

**Occupational exposure limits:** Not available.

**Additional exposure limits under the conditions of use:** Not available.

**DNEL/DMEL and PNEC-Values:** Not available.

#### 8.2. Exposure controls



**Engineering controls:** It is recommended that facilities storing or utilising this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

**PPE – General:** Handle and store in accordance with good industrial hygiene and safety practices. Wear appropriate PPE according to Directive 89/686/EEC. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, using the bathroom and/or smoking. When using, do not eat, drink or smoke. Routinely wash work clothing and protective equipment to remove contaminants.

<b>PPE – Eye/face:</b>	Face protective safety glasses/goggles according to EN166 should be worn.
<b>PPE – Skin:</b>	<p>Hand: Chemical-resistant, impervious gloves complying with an approved standard (EN374) should be worn if handling substance. The quality of the protective gloves resistant to chemicals and the breakthrough time must be chosen as a function of the specific working place concentration and quantity of hazardous substances and length of time of exposure.</p> <p>Other: Wear protective clothing according to that recommended by the risk assessment for the product's use.</p>
<b>PPE – Respiratory:</b>	Respiratory protection (such as self-contained breathing apparatus) may be required if excessive airborne contamination occurs.
<b>Environmental exposure control:</b>	Avoid discharge into the environment. Refer to additional information provided in Sections 6 and 7 regarding safe handling and storage to prevent exposure to individuals and/or to the environment. Refer to official regulations (local/government).

## Section 9: Physical and chemical properties

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

<b>Physical state:</b>	Clear mobile liquid
<b>Colour:</b>	Colourless to pale yellow
<b>Odour:</b>	Characteristic
<b>Relative density:</b>	@ 20°C: 0.906 to 0.927
<b>Refractive index:</b>	@ 20°C: 1.458 to 1.470
<b>Optical rotation:</b>	@ 20°C: 0° to +10°
<b>Solubility:</b>	@ 25°C: 2.65mg/L
<b>Boiling point:</b>	@ 101 325 Pa: 176.4°C (REACH dossier)
<b>Vapour pressure:</b>	@ 25°C: 0.253 kPa
<b>Freezing point:</b>	@ 101 325 Pa: -1.5°C
<b>Flash point:</b>	45.5°C (Pensky Martens Closed Cup method)
<b>Flammability:</b>	The study does not need to be conducted because the substance is known to be stable in contact with air at room temperature for prolonged periods of time (days) and it does not contain metals or metalloids hence the classification procedure does not need to be applied.
<b>Explosiveness:</b>	The study does not need to be conducted because there are no chemical groups present in the molecule which are associated with explosive properties.
<b>Auto-ignition temperature:</b>	@ 101 325 Pa: 270°C (Data comes from an online compilation using peer-reviewed secondary data sources).
<b>Kinematic viscosity:</b>	@ 20°C: 2.46 mPa · s (dynamic). Potential for Aspiration Hazard (ca 1.8 mm <sup>2</sup> /s at 40°C – lower limit for classification is 20.5mm <sup>2</sup> /s at 40°C).
<b>Partition coefficient n-octanol/water (log value):</b>	Log Kow (Log Pow) = 4.42, based on three components making up 90% of the NCS (the value for cineole @ 80-85% being 2.84). Although eucalyptus oil has potential to bioaccumulate in the environment, it can be excluded as potentially bioaccumulative in a PBT context (REACH).

**Relative vapour density:** @ 25°C: 351 Pa (Data comes from an online compilation using peer-reviewed secondary data sources).

## 9.2. Other information

**Information with regard to physical hazard classes:** Categories not relevant for the safe use of this substance.

**Other safety characteristics:** Categories not relevant for the safe use of this substance.

## Section 10: Stability and reactivity

### 10.1. Reactivity

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

### 10.2. Chemical stability

**Chemical stability:** Stable at room temperature in closed containers under normal storage and handling conditions.

### 10.3. Possibility of hazardous reactions

**Hazardous reactions:** None known.

### 10.4. Conditions to avoid

**Conditions to avoid:** Incompatible materials. Keep away from heat or flame.

### 10.5. Incompatible materials

**Materials to avoid:** Strong oxidizing agents, strong reducing agents.

### 10.6. Hazardous decomposition product

**Haz. decomp. products:** May produce carbon monoxide and carbon dioxide upon decomposition.

## Section 11: Toxicological information

### 11.1. Information on toxicological effects

**Acute oral:** Not classified - Higher than 2000mg/kg bw in mice.

**Inhalation:** No studies available (REACH dossier).

**Skin:** Not classified - non-toxic at the dose level of 5000mg/kg bw (rabbit).

**Eye irritation:** Not classified as irritating to eyes – New Zealand White Rabbit.

**Skin irritation:** Skin irritant (Category 2) based on GHS criteria (WoE approach).

**Skin sensitivity:** Skin sensitiser (category 1B) (WoE based on components).

**Mutagenicity/carcinogenicity:** Not classified as mutagenic (reverse gene mutation assay – Salmonella typhimurium and Escherichia coli).

<b>Fertility/reproduction:</b>	Rats: NOAEL for systemic toxicity (female), systemic toxicity (males), developmental and reproductive toxicity were considered to be 300, 1000, 300 and 1000mg/kg bw/day, respectively.
<b>STOT-single exposure:</b>	No classification is required for either oral or dermal exposure – no effects observed at either Cat 1 or Cat 2 classification.
<b>STOT-repeated exposure:</b>	Conclusive but not sufficient for classification, data lacking (ECHA C&L).
<b>Aspiration hazard:</b>	Based on its viscosity, the substance should be classified for aspiration hazard, Asp. Tox. 1, H304.

#### 11.2. Information on other hazard classes which relates to endocrine disrupting properties

<b>Other hazards:</b>	No information on other hazard classes specified.
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### Section 12: Ecological information

#### 12.1. Toxicity

Classified Aquatic Chronic 2, H411 - Toxic to aquatic life with long lasting effects

<b>Fish:</b>	Short-term toxicity, LC50 = 18mg/L; Long-term toxicity, study scientifically not necessary.
<b>Algae:</b>	EC50 = 1.64mg/L; EC10 and NOEC = 0.88mg/L
<b>Aquatic invertebrates:</b>	Daphnia magna - Short-term, EC50/LC50 = 1.02mg/L; Long term, study scientifically not necessary.
<b>Microorganisms:</b>	Study scientifically not necessary. Eucalyptus Oil is considered readily biodegradable (aquatic).
<b>Terrestrial arthropods, macroorganisms, plants and microorganisms:</b>	Based on a conservative estimation from Chesar, the chemical safety assessment of this natural complex substance indicates no need to investigate terrestrial testing.

#### 12.2. Persistence and degradability

<b>Biodegradability:</b>	Considered readily biodegradable.
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#### 12.3. Bioaccumulative potential

<b>Bioaccumulative potential:</b>	Despite Log Kow (for alpha-pinene) = 4.42 it is not considered to be bioaccumulative in the environment in terms of being PBT. BCF (aquatic species): 852.9 L/kg ww
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#### 12.4. Mobility in soil

<b>Mobility:</b>	Substance is NCS: Koc at 260.4 for 1,8-Cineol (log Koc = 2.44) and Koc at 3222.3 for alpha-pinene (log Koc = 3.49) (geometric mean between three calculation approaches).
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#### 12.5. Results of PBT and vPvB assessment

<b>PBT identification:</b>	Not PBT/vPvB
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**12.6. Endocrine disrupting properties**
**Endocrine disrupting properties:**

Eucalyptus Oil is not on the ED-list (<https://edlists.org/the-ed-lists>) of endocrine disruptors meaning that it is not a substance identified as an endocrine disruptor at EU level (List I), a substance under evaluation for endocrine disruption under an EU legislation (List II) nor a substance considered, by the evaluating National Authority, to have endocrine disrupting properties (List III).

**12.7. Other adverse effects**
**Other adverse effects:**

None specified (REACH dossier).

**Section 13: Disposal considerations**
**13.1. Waste treatment methods**
**Product/packaging disposal:**

If empty container retains product residues, all label precautions must be observed. Return for reuse or dispose according to national or local regulations.

**Waste treatment – relevant information:**

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

**Sewage disposal – relevant information:**

Waste should not be disposed of by release to sewers.

**13.2. Special precautions for landfill and incineration**
**Special precautions for landfill and incineration:**

Waste is suitable for incineration.

**Section 14: Transport information**
**UN number:**

1197

**UN proper shipping name:**

Extracts, Liquid for flavouring or aroma

**Transport hazard class(es):**

3

**Packaging group:**

III

**Transport labels:**

**Environmental hazards:**

Marine pollutant - See Section 2

**Special precautions for user:**

Dangerous Goods Note  
Tunnel Restriction code: 3 (D/E)

**Maritime transport in bulk according to IMO instruments:**

UN1197 Extracts, Liquid for flavouring or aroma  
Class 3, Group III  
Marine Pollutant

**Section 15: Regulatory information**
**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

**Specific regulations:** The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No 716).

**15.2. Chemical Safety Assessment**

**Chemical safety assessment:** No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

**Section 16: Other information**
**16.1. Other information**
**Packaging:**

Type	Suitability
Glass	Yes
Steel	Yes
Aluminium	Yes
F/HDPE	Yes
Stainless steel drum	Yes

**Shelf life:**

48 months when stored within advised conditions, re-test every 12 months thereafter for a possible further 24 months.

**Other information:**

\* Indicates text in the SDS which has changed since the last revision.

**Legal disclaimer:**

This information is provided for documentation purposes only.

The complete range of conditions or methods of use are beyond our control therefore we do not assume any responsibility and expressly disclaim any liability for any use of this product.

Information contained herein is believed to be true and accurate however, all statements or suggestions are made without warranty, expressed or implied, regarding accuracy of the information, the hazards connected with the use of the material or the results to be obtained from the use thereof.

Compliance with all appropriate local regulations remains the responsibility of the user.

This safety sheet cannot cover all possible situations which the user may experience during processing.

Each aspect of your operation should be examined to determine if, or where, additional precautions may be necessary.

All health and safety information contained in this document should be provided to your employees or customers.