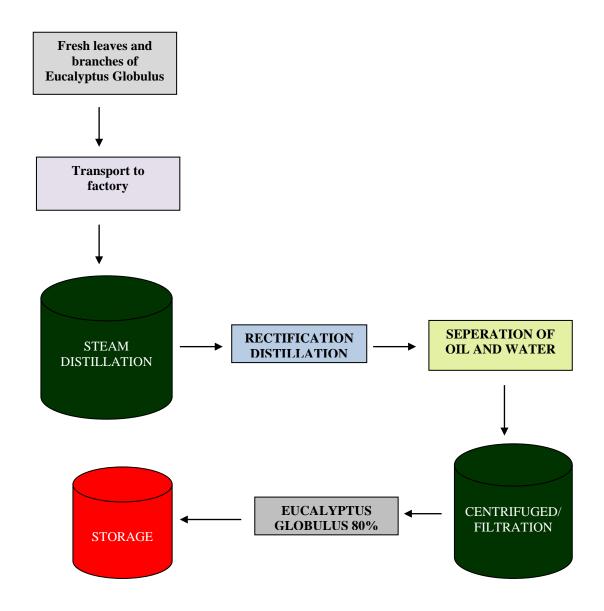


PRODUCT DETAILS						
Product Name		EUCALYPTUS BLUE GUM				
Product Code		OEEUCABLUEGUM				
Chemical Name:		Eucalyptus Globulus ext				
Batch/Lot Number		4388802				
Expiry Date		February 2023				
Manufacturing Process		Steam distillation of leaves and b	oranches of My	rtaceae.		
Identification		CAS No: 84625-32-1		EINECS No: 283-406-2		
PHYSICAL AND CHEMIC	AL CHARA	CTERISTIC				
		SPECIFICATION RANGE			RESULTS	
Appearance		Liquid			Conforms	
Colour		Colourless to pale yellow			Conforms	
Odour		Characteristic			Conforms	
Relative Density @ 20°c		0.905 - 0.925			0.9115	
Refractive Index @ 20°c		1.457 - 1.467			1.462	
Optical Rotation °		+5 to -20c			+2.15	
MAIN CONSTITUENTS						
CONSTITUENT RANGE	RESULTS	CONSTITUENT RANGE	RESULTS	CONSTITUE	NTS RANGE	RESULTS
1, 8 Cineole >=70 <=95	80.40%	Dipentene >=4 <=12	6.93%	P-Cymene >=0.0	1 <=9	3.06%
Alpha Pinene >=0.01 <=9	3.70%	Beta Pinene >=0.01 <=1.5	0.55%			
STORAGE AND SHELF LI	FE					
Storage		Store in tightly closed contained	er with minim	um headspace in	a cool, dark and	dry place.

**DISCLAIMER:** 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 users responsibility to satisfy himself as to the suitability of such information for his own particular use. Where MADAR make a declaration that allergenic material are not present in any product, this statement is made assuming reasonable levels of detection. It is impossible to guarantee the "absolute absence" of any material. It is the ultimate responsibility of the customer to ensure the safety of the intended final product containing this material, by carrying out additional tests if necessary.



# EUCALYPTUS BLUE GUM FLOW CHART





# SAFETY DATA SHEET EUCALYPTUS BLUE GUM

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

1.1. Product identifier

Product name EUCALYPTUS BLUE GUM

Product number OEEUCABLUE

Synonyms; trade names Eucalyptus Oil Globulus

REACH registration number 01-2119978250-37-0000

**CAS number** 84625-32-1

**Alternative Cas Number** 

**EC number** 283-406-2

**FEMA No:** 

#### 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 MADAR Corporation Limited

19-20 Sandleheath Industrial Estate

Fordingbridge Hampshire SP6 1PA

Tel. +44 1425 655555 (Opening Hours 9am - 5pm)

e-mail sales@madarcorporation.co.uk

#### 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

#### **Pictogram**









#### 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

r, o omocio, dipontorio, rapria i morio, bota i morio

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 explosion-proof electrical equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

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/ 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

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 Asp. Tox. 1 - H304 Aquatic Chronic 2 - H411

Alpha Pinene >=0.01 <=9

Classification

Flam. Liq. 3 - H226 Skin Irrit. 2 - H315 Skin Sens. 1 - H317 Asp. Tox. 1 - H304

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 Asp. Tox. 1 - H304

7-methyl-3-methyleneocta-1,6-diene >=0.5 <=2

CAS number: 123-35-3 EC number: 204-622-5

Classification

Flam. Liq. 3 - H226 Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Asp. Tox. 1 - H304

Beta Pinene >=0.01 <=1.5

CAS number: 127-91-3 EC number: 204-872-5

Classification

Flam. Liq. 3 - H226 Skin Irrit. 2 - H315 Skin Sens. 1 - H317 Asp. Tox. 1 - H304

p-menth-1-en-8-ol >=0.01 <=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

#### **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

for firefighters

Special protective equipment

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

Absorb with liquid binding material (e.g sand, diatomaceous earth, acid or universal binding Methods for cleaning up

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)

#### 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/lFresh water; 0.057 mg/lMarine water; 0.0057 mg/l

Sediment (Freshwater); 0.06732 mg/kgSediment (Marinewater); 0.00673 mg/kg

#### Alpha Pinene (CAS: 80-56-8)

**DNEL** Workers - Inhalation; Long term systemic effects: 5.98 mg/m<sup>3</sup>

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/kgFresh water; 0.004 mg/lMarine water; 0.0004 mg/l

Sediment (Freshwater); 1.033 mg/kgSediment (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/kgSediment (Marinewater); 0.502 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.

Revision date: 18/11/2016 Revision: 5 Supersedes date: 01/11/2016

#### **EUCALYPTUS BLUE GUM**

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

Flash point 45.5 - 46.5°C PMCC (Pensky-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 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

Auto-ignition temperature 270°C

Viscosity 2.456 mPa s @ 20°C 1.627 mPa s @ 40°C

**Explosive properties** Scientifically unjustified.

Optical rotation

9.2. Other information

Refractive index 1.457 - 1.467

#### 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 None known.

reactions

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

Carbon dioxide (CO2). Carbon monoxide (CO).

products

#### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

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 LD<sub>50</sub>) 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).

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 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

#### 12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB

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

assessment

#### 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

#### 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 30

(ADR/RID)

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

#### **SECTION 16: Other information**

Revision date 18/11/2016

Revision 5

Supersedes date 01/11/2016

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.



# **Product Specification**

PRODUCT DETAILS				
Product Name	EUCALYPTUS BLUE GUM			
Product Code	OEEUCABLUE			
Chemical Name:	Eucalyptus Globulus ext			
Country of Origin	China			
Tariff Number	33012941			
Natural Status	We hereby declare, to the best of our knowledge and from information received from our supplier, that this product is in accordance to the requirements of Articles 3 (2) (d) of Regulation (EC) 1334/2008 and therefore can be designated as natural.			
Food Grade Status	We confirm, from information received from our supplier, that this product conforms with EU Regulations and can be used in food.			
Kosher Certified	Yes			
Halal Certified	We hereby delcare, from information received from our supplier, that this product does not contain any ingredient derived from animal origin, extracted from hair or feathers, animal fats, animal extracts, blood of any origin, blood plasma, pork and/or other meat products. This product does not contain alcohol (ethanol or grain alcohol) and has not been used in the manufacturing process.			
GMO Declaration	To the best of our knowledge and from information received from our supplier, this product does not derive from genetically modified starting raw material, or additives that are derived from genetically modified organisms.			
Manufacturing Process	Steam distillation of leaves and branches of Myrtaceae.			
Identification	CAS No: 84625-32-1 EINECS No: 283-406-2			
PHYSICAL AND CHEMIC	CAL CHARACTERISTIC			
Appearance	Liquid			
Colour	Colourless to pale yellow			
Odour	Characteristic			
Relative Density @ 20°c	0.905 - 0.925			
Refractive Index @ 20°c	1.457 - 1.467			
Melting Point	+5 to -20c			
Boiling Range	153 - 184°c			
Flash Point	45.5 to 46.5°c PMCC (Pensky-Martens closed cup)			
Vapour Pressure	ca 262 Pa @ 25°c			
Viscosity	2.456 mPas @ 20°c / 1.627 mPas @ 40°c			
Hydrocarbon content	18%			
FRAGRANCE ALLERGEN	IS			
Limonene/Dipentene (5989-2	7-5) >=4 to <=12% Linalool (78-70-6) <0.5%			
FOOD ALLERGENS				
NONE PRESENT				
IFRA				
STORAGE AND SHELF L	IFE			
Storage	Store in tightly closed container with minimum headspace in a cool, dark and dry place.			

DISCLAIMER: 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 users responsibility to satisfy himself as to the suitability of such information for his own particular use. Where MADAR Corporation make a declaration that allergenic material are not present in any product, this statement is made assuming reasonable levels of detection. It is impossible to guarantee the "absolute absence" of any material. It is the ultimate responsibility of the customer to ensure the safety of the intended final product containing this material, by carrying out additional tests if necessary.



# **Vegan Statement**

IDENTIFICATION				
Product:	Eucalyptus Blue Gum			
Cas No:	84625-32-1			
EINECS No:	283-406-2			
STATEMENT				

We, MADAR Corporation Limited, from information received from our supplier, hereby declare that the material listed above is compliant with a vegan diet.

It does not contain any animal ingredients or animal by products. No animal ingredients or by products are used in the manufacturing process.

10th January 2019

This document represents to the best of our knowledge and from information received from our supplier. It does not release the buyer from the obligation to carry out an examination of the goods received. All uses made by the buyer are done under their own responsibility.