

Product Name		CITRONELLA JAVA OIL				
Product Code		OECITR				
INCI Name		Cymbopogon				
Batch Number		4365805				
Best Before End		July 2022				
			V32-30-30			
Manufacturing Process		Steam distillation of the freshly cut or partially dried grasses of C				
Identification		CAS No: 91771-61-8 EINECS N			CS No: 294-954-7	
		Alternative Cas: 8000-29-1 FEMA		AMERINEGOUS GUERN CHE	FEMA No: 2308	
		CoE: 39 FDA No: 18		FDA No: 182	82.20	
PHYSICAL AND CHEM	ICAL CHA	RACTERISTIC				
		SPECIFICATION RANGE			RESULTS	
Appearance		Liquid			Conforms	
Colour		Pale yellow			Conforms	
Odour		Characteristic			Conforms	
Relative Density @ 20°c		0.850 - 0.950			0.8836	
Refractive Index @ 20°c		1.450 - 1.490			1.4674	
MAIN CONSTITUENTS				- *		
CONSTITUENT RANGE	RESULTS	CONSTITUENT RANGE	RESULTS		CONSTITUENTS RANGE	RESULTS
(+) - Citronellal 7-43%	38.40%	Geraniol 19-49%	23.40%	Citronellol 8-14% 11.50%		11.50%
Limonene 1.5-5%	5.10%	Geranyl Acetate 2-4%	3.30%	Muurolol (T&A) <0.01-3% 0.70%		
Elemol 0.5-5%	1.70%	Citronellyl Acetate 1-4%	2.00%	Cadinenes (alpha, betaγ) 1-5% 1.10%		
Germacrene D 0.50-3%	1.90%	Elemene Beta 0.50-3%	0.20%	Neo Iso Pulegol 0.50-3% 0.60%		
Iso Pulegol <0.01-2%	0.60%	Eugenol 0.50-1.50%	0.10%	Geranial <0.01-11% ND		
Linalool <0.01-2%	0.80%	Nerol <0.01-1%	0%	Neryl Acetate <0.01-<1% 0.80%		0.80%
Farnseol < 0.01 - < 1%	0.10%	Beta Caryophyllene <0.01-3.5%	0.10%	Terpineol (alpha, betaγ) <0.01-<1% ND		ND
DL Borneol <0.01-<1%	0.20%	Decanal <0.01-<1%	0.10%	Sabiene < 0.01-<1% 0.13%		
Myrcene <0.01-<1%	0.08%	A Terpinolene <0.01-<1%	0.10%	Beta Phellandrene <0.01-<1% 0.10%		
Alpha Pinene <0.01-<1%	0.06%	P-Cymene <0.01-<1%	ND	Cis-beta-C	ocimene <0.01-<1%	ND
STORAGE AND SHELF	LIFE	<u>.</u>		2		
Storage		Store in tightly closed container wit	h minimum	headspace i	n a cool, dark and dry place.	
Manager Commence Comm			A CONTRACTOR OF THE PARTY OF TH		SELECTION OF THE PROPERTY OF THE SELECTION OF THE SELECTI	

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.

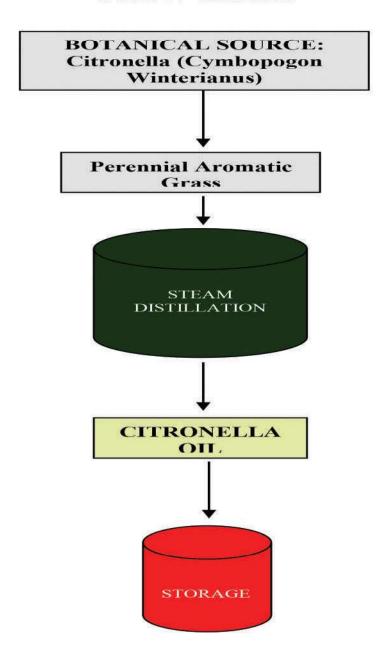
36 months unopened and stored as above.

Issue No: 1

Shelf Life



### CITRONELLA JAVA OIL FLOW CHART





## SAFETY DATA SHEET CITRONELLA JAVA OIL

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

1.1. Product identifier

Product name CITRONELLA JAVA OIL

Product number OECITR

Synonyms; trade names Cymbopogon Winterianus

REACH registration number 01-2120741487-48-XXXX

**CAS number** 91771-61-8 **EC number** 294-954-7

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

Identified uses Suitable for use in cosmetics,, fragrances, flavourings and professional applications only.

#### 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 Not Classified

Health hazards Acute Tox. 4 - H302 Eye Dam. 1 - H318 Skin Sens. 1 - H317 Asp. Tox. 1 - H304

Environmental hazards Aquatic Chronic 2 - H411

Human health Causes serious eye irritation May irritate eyes and skin. Fatal if swallowed

Environmental The product contains a substance which is toxic to aquatic organisms and which may cause

long-term adverse effects in the aquatic environment.

2.2. Label elements

EC number 294-954-7

#### CITRONELLA JAVA OIL



#### Hazard pictograms









#### Signal word

#### Danger

#### Hazard statements

H302 Harmful if swallowed.

H318 Causes serious eye damage.

H317 May cause an allergic skin reaction.

H411 Toxic to aquatic life with long lasting effects. H304 May be fatal if swallowed and enters airways.

#### Precautionary statements

P261 Avoid breathing vapour/ spray.

P264 Wash contaminated skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product.

P272 Contaminated work clothing should not be allowed out of the workplace.

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. P301+P312 IF SWALLOWED: Call a POISON CENTRE/doctor if you feel unwell.

P302+P352 IF ON SKIN: Wash with plenty of water.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing. P321 Specific treatment (see medical advice on this label).

P330 Rinse mouth.

P331 Do NOT induce vomiting.

P333+P313 If skin irritation or rash occurs: Get medical advice/ attention. P362+P364 Take off contaminated clothing and wash it before reuse.

P391 Collect spillage. P405 Store locked up.

P501 Dispose of contents/ container in accordance with national regulations.

#### Contains

(+)-Citronellal, Geraniol, Citronellol, (R)-p-mentha-1,8-diene, Geranyl Acetate, Elemol, Neo Iso Pulegol, Iso Pulegol, Eugenol, Geranial, Linalool, Nerol, Neryl Acetate, Farnseol, Beta

Caryophyllene

#### 2.3. Other hazards

#### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

(+)-Citronellal 7-43%

CAS number: 2385-77-5 EC number: 219-194-5

#### Classification

Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Skin Sens. 1B - H317

#### CITRONELLA JAVA OIL



Geraniol 19-49%

CAS number: 106-24-1 EC number: 203-377-1

Classification

Skin Irrit. 2 - H315 Eye Dam. 1 - H318 Skin Sens. 1 - H317

Citronellol 8-14%

CAS number: 106-22-9 EC number: 203-375-0

Classification

Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Skin Sens. 1 - H317

(R)-p-mentha-1,8-diene 1.5 - 5%

CAS number: 5989-27-5 EC number: 227-813-5

M factor (Acute) = 1

Classification

Flam. Liq. 3 - H226

Skin Irrit. 2 - H315

Skin Sens. 1 - H317

Asp. Tox. 1 - H304

Aquatic Acute 1 - H400

Aquatic Chronic 3 - H412

Geranyl Acetate 2 - 4%

CAS number: 105-87-3 EC number: 203-341-5

Classification

Skin Irrit. 2 - H315 Skin Sens. 1B - H317

Aquatic Chronic 3 - H412

Elemol 0.5-5%

CAS number: 639-99-6 EC number: 245-842-1

Classification

Skin Irrit. 2 - H315

Skin Sens. 1 - H317

Aquatic Chronic 2 - H411

#### CITRONELLA JAVA OIL



Citronellyl Acetate 1-4%

CAS number: 150-84-5 EC number: 205-775-0

Classification

Skin Irrit. 2 - H315

Aquatic Chronic 2 - H411

Neo Iso Pulegol 0.50-3%

CAS number: 96612-21-4

Classification

Acute Tox. 4 - H302 Skin Irrit. 2 - H315 Eye Irrit. 2 - H319

Iso Pulegol <0.01-2%

CAS number: 89-79-2 EC number: 201-940-6

Classification

Acute Tox. 4 - H302 Skin Irrit. 2 - H315 Eye Irrit. 2 - H319

Eugenol 0.50-1.50%

CAS number: 97-53-0 EC number: 202-589-1

Classification

Eye Irrit. 2 - H319 Skin Sens. 1 - H317 Asp. Tox. 1 - H304

Geranial <0.01-11%

CAS number: 141-27-5 EC number: 205-476-5

Classification

Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Skin Sens. 1 - H317

Linalool <0.01-2%

CAS number: 78-70-6 EC number: 201-134-4

Classification

Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Skin Sens. 1 - H317

#### CITRONELLA JAVA OIL



Nerol <0.01-<1%

CAS number: 106-25-2 EC number: 203-378-7

Classification

Skin Irrit. 2 - H315 Eye Dam. 1 - H318 Skin Sens. 1 - H317

Neryl Acetate <0.01-<1%

CAS number: 141-12-8 EC number: 205-459-2

Classification

Skin Sens. 1 - H317

Farnseol <0.01-<1%

Classification

Skin Irrit. 2 - H315 Skin Sens. 1 - H317 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410

Beta Caryophyllene <0.01-3.5%

CAS number: 87-44-5 EC number: 201-746-1

Classification

Skin Sens. 1B - H317 Asp. Tox. 1 - H304 Aquatic Chronic 4 - H413

Decanal <0.01-<1%

CAS number: 112-31-2 EC number: 203-957-4

M factor (Acute) = 1

Classification

Eye Irrit. 2 - H319 Aquatic Acute 1 - H400 Aquatic Chronic 3 - H412

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** Move affected person to fresh air at once. Get medical attention.

Ingestion Rinse mouth thoroughly with water. Do not induce vomiting. Get medical attention

immediately.

#### CITRONELLA JAVA OIL



Skin contact Remove contaminated clothing immediately and wash skin with soap and water. Get medical

attention promptly if symptoms occur after washing.

Eye contact Rinse cautiously with water for several minutes. Remove any contact lenses and open eyelids

wide apart. Continue to rinse. Get medical attention immediately.

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

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

Notes for the doctor Treat symptomatically.

#### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media Carbon dioxide (CO2). Powder.

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 Closed containers may build up pressure at elevated temperatures.

Hazardous combustion

products

Thermal decomposition or combustion products may include the following substances:

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

#### 5.3. Advice for firefighters

Protective actions during

firefighting

Avoid breathing fire gases or vapours.

Special protective equipment

for firefighters

Wear full protective clothing

#### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid inhalation of vapours and contact with skin and eyes. Provide adequate ventilation. No

smoking, sparks, flames or other sources of ignition near spillage.

#### 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 Contain spillage with sand, earth or other suitable non-combustible material. Collect and place

in suitable waste disposal containers and seal securely.

#### 6.4. Reference to other sections

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

#### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Usage precautions Avoid contact with skin and eyes. Avoid inhalation of vapours and spray/mists. Keep away

from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Static

electricity and formation of sparks must be prevented. Provide adequate ventilation.

Advice on general occupational hygiene Good personal hygiene procedures should be implemented.

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

#### CITRONELLA JAVA OIL



Storage precautions

Keep container tightly closed, in a cool, well ventilated place. Only store in correctly labelled containers. Keep containers upright.

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

#### SECTION 8: Exposure controls/Personal protection

#### 8.1. Control parameters

#### Geraniol (CAS: 106-24-1)

DNEL Workers - Inhalation; Long term systemic effects: 161.6 mg/m<sup>3</sup>

Workers - Dermal; Long term systemic effects: 12.5 bw/day, mg/kg General population - Inhalation; Long term systemic effects: 47.8 mg/m³ General population - Dermal; Long term systemic effects: 7.5 bw/day, mg/kg General population - Oral; Long term systemic effects: 13.75 bw/day, mg/kg

PNEC - Fresh water; Short term 0.011 mg/l

- Fresh water, Intermittent release; 0.108 mg/l

- marine water; Short term 0.001 mg/l

- STP; Short term 0.7 mg/l

Sediment (Freshwater); Short term 0.115 mg/kg
 Sediment (Marinewater); Short term 0.011 mg/kg

- Soil; Short term 0.017 mg/kg

#### Citronellol (CAS: 106-22-9)

DNEL Workers - Inhalation; Long term systemic effects: 161.6 mg/m³

Workers - Inhalation; Long term local effects: 10 mg/m³ Workers - Inhalation; Short term local effects: 10 mg/m³

Workers - Dermal; Long term systemic effects: 327.4 mg/kg, bw/day

Workers - Dermal; Short term local effects: 2.950 mg/cm<sup>2</sup>

General population - Inhalation; Long term systemic effects: 47.8 mg/m³ General population - Inhalation; Long term local effects: 10 mg/m³ General population - Inhalation; Short term local effects: 10 mg/m³

General population - Dermal; Long term systemic effects: 196.4 bw/day, mg/kg

General population - Dermal; Short term local effects: 2.950 mg/cm<sup>2</sup> General population - Oral; Long term systemic effects: 13.8 mg/kg, bw/day

PNEC - Fresh water; Short term 0.002 mg/l

- Intermittent release, Fresh water; Short term 0.024 mg/l

- marine water; Short term 0 mg/l

- STP; Short term 580 mg/l

Sediment (Freshwater); Short term 0.026 mg/kg
 Sediment (Marinewater); Short term 0.003 mg/kg

- Soil; Short term 0.004 mg/kg

#### (R)-p-mentha-1,8-diene (CAS: 5989-27-5)

DNEL Workers - Inhalation; Long term systemic effects: 33.3 mg/m<sup>3</sup>

General population - Oral; Long term systemic effects: 4.76 mg/kg

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#### CITRONELLA JAVA OIL



PNEC - STP; 1.8 mg/l

- Soil; 0.262 mg/kg

Fresh water; 0.0054 mg/lmarine water; 0.00054 mg/l

Sediment (Freshwater); 1.32 mg/kgSediment (Marinewater); 0.13 mg/kg

#### Geranyl Acetate (CAS: 105-87-3)

DNEL Workers - Inhalation; Long term systemic effects: 62.59 mg/m³

Workers - Dermal; Long term systemic effects: 35.5 mg/kg, bw/day
General population - Inhalation; Long term systemic effects: 15.4 mg/m³
General population - Dermal; Long term systemic effects: 17.75 mg/kg, bw/day
General population - Oral; Long term systemic effects: 8.9 mg/kg, bw/day

PNEC - Fresh water; Short term 3.72 mg/l

- Intermittent release, Fresh water; 37.2 mg/l

- marine water; Short term 0.372 mg/l

- STP; Short term 8 mg/l

Sediment (Freshwater); Short term 0.442 mg/kg
 Sediment (Marinewater); Short term 0.044 mg/kg

- Soil; Short term 0.086 mg/kg

#### Citronellyl Acetate (CAS: 150-84-5)

DNEL Workers - Inhalation; Long term systemic effects: 17 mg/m<sup>3</sup>

Workers - Dermal; Long term systemic effects: 4.8 bw/day, mg/kg General population - Inhalation; Long term systemic effects: 4.2 mg/m³ General population - Dermal; Long term systemic effects: 2.4 bw/day, mg/kg General population - Oral; Long term systemic effects: 2.4 bw/day, mg/kg

PNEC - Fresh water; Short term 0.003 mg/l

- Intermittent release, Fresh water; 0.035 mg/l

- marine water; Short term 0 mg/l

- STP; Short term 10 mg/l

Sediment (Freshwater); Short term 0.851 mg/kg
 Sediment (Marinewater); Short term 0.085 mg/kg

- Soil; Short term 0.168 mg/kg

#### Eugenol (CAS: 97-53-0)

DNEL Workers - Inhalation; Long term systemic effects: 21.2 mg/m<sup>3</sup>

Workers - Dermal; Long term systemic effects: 6 bw/day, mg/kg

General population - Inhalation; Long term systemic effects: 5.22 mg/m³ General population - Dermal; Long term systemic effects: 3 mg/kg, bw/day General population - Oral; Long term systemic effects: 3 bw/day, mg/kg

PNEC - Fresh water; Short term 1.13 mg/l

- Intermittent release, Fresh water; 11.3 mg/l

- marine water; Short term 0.113 mg/l

Sediment (Freshwater); Short term 0.081 mg/kg
 Sediment (Marinewater); Short term 0.008 mg/kg

- Soil; Short term 0.015 mg/kg

Linalool (CAS: 78-70-6)

#### CITRONELLA JAVA OIL



DNEL Workers - Dermal; Short term systemic effects: 5 mg/kg

Workers - Inhalation; Short term systemic effects: 16.5 mg/m³
Workers - Dermal; Long term systemic effects: 2.5 mg/kg
Workers - Inhalation; Long term systemic effects: 2.8 mg/m³
General population - Oral; Short term systemic effects: 1.5 mg/kg
General population - Dermal; Short term systemic effects: 2.5 mg/kg
General population - Inhalation; Short term systemic effects: 4.1 mg/m³
General population - Oral; Long term systemic effects: 0.2 mg/kg
General population - Dermal; Long term systemic effects: 1.25 mg/kg
General population - Inhalation; Long term systemic effects: 0.7 mg/m³

-;:

PNEC - STP; Short term 10 mg/l

- Soil; Short term 0.327 mg/kg

Intermittent release; Short term 2 mg/l
Fresh water; Short term 0.2 mg/l
marine water; Short term 0.02 mg/l

Sediment (Freshwater); Short term 2.22 mg/kgSediment (Marinewater); Short term 0.222 mg/kg

#### Decanal (CAS: 112-31-2)

DNEL Workers - Inhalation; Long term systemic effects: 24.9 mg/m<sup>3</sup>

Workers - Dermal; Long term systemic effects: 7 bw/day, mg/kg General population - Inhalation; Long term systemic effects: 6.1 mg/m³ General population - Dermal; Long term systemic effects: 3.5 mg/kg, bw/day General population - Oral; Long term systemic effects: 3.5 bw/day, mg/kg

PNEC - Fresh water; Short term 1.17 mg/l

- Fresh water, Intermittent release; 11.7 mg/l

- marine water; Short term 0.117 mg/l

- STP; Short term 3.16 mg/l

Sediment (Freshwater); Short term 0.097 mg/kg
 Sediment (Marinewater); Short term 0.01 mg/kg

- Soil; Short term 0.019 mg/kg

#### Terpineol (alpha&beta&gamma) (CAS: 8000-41-7)

DNEL Workers - Inhalation; Long term systemic effects: 44.8 mg/m³

Workers - Dermal; Long term systemic effects: 6.35 bw/day, mg/kg
General population - Inhalation; Long term systemic effects: 7.96 mg/m³
General population - Dermal; Long term systemic effects: 2.29 mg/kg, bw/day
General population - Oral; Long term systemic effects: 0.42 bw/day, mg/kg

PNEC - Fresh water; Short term 12 mg/l

- Fresh water, Intermittent release; mg/l - marine water; Short term 1.2 mg/l

- STP; Short term 2.57 mg/l

Sediment (Freshwater); Short term 0.263 mg/kg
 Sediment (Marinewater); Short term 0.026 mg/kg

- Soil; Short term 0.045 mg/kg

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

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

Workers - Inhalation; Long term systemic effects: 5.83 mg/m<sup>3</sup>

General population - Dermal; Long term systemic effects: 0.42 mg/kg General population - Inhalation; Long term systemic effects: 1.25 mg/m<sup>3</sup>

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

#### a terpinolene (CAS: 586-62-9)

DNEL Workers - Inhalation; Long term systemic effects: 3.6 mg/m<sup>3</sup>

Workers - Dermal; Long term systemic effects: 0.52 bw/day, mg/kg General population - Inhalation; Long term systemic effects: 0.9 mg/m³ General population - Dermal; Long term systemic effects: 0.26 bw/day, mg/kg General population - Oral; Long term systemic effects: 0.26 mg/kg, bw/day

PNEC - Fresh water; Short term 0.634 mg/l

- Fresh water, Intermittent release; Short term 0.634 mg/l

- marine water; Short term 0.063 mg/l

- STP; Short term 0.2 mg/l

Sediment (Freshwater); Short term 14.7 mg/kgSediment (Marinewater); Short term 14.7 mg/kg

- Soil; Short term 29.1 mg/kg

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

DNEL Workers - Inhalation; Long term systemic effects: 3.8 mg/m³

Workers - Dermal; Long term systemic effects: 0.54 bw/day, mg/kg
General population - Inhalation; Long term systemic effects: 0.67 mg/m³
General population - Dermal; Long term systemic effects: 0.19 mg/kg, bw/day
General population - Oral; Long term systemic effects: 0.19 mg/kg, bw/day

PNEC - Fresh water; Short term 0.606 mg/l

- Intermittent release, Fresh water; 3.03 mg/l

- marine water; Short term 0.061 mg/l

- marine water, Intermittent release; 0.303 mg/l

- STP; Short term 0.2 mg/l

Sediment (Freshwater); Short term 157 mg/kg
Sediment (Marinewater); Short term 15.7 mg/kg

- Soil; Short term 31.7 mg/kg

Camphene (CAS: 79-92-5)

#### CITRONELLA JAVA OIL



DNEL Workers - Inhalation; Long term systemic effects: 110.19 mg/m<sup>3</sup>

Workers - Inhalation; Short term systemic effects: 110.19 mg/m³
Workers - Dermal; Long term systemic effects: 0.21 bw/day, mg/kg
Workers - Dermal; Short term systemic effects: 1.25 bw/day, mg/kg
General population - Inhalation; Long term systemic effects: 54.3 mg/m³
General population - Inhalation; Short term systemic effects: 54.3 mg/m³
General population - Dermal; Long term systemic effects: 0.1 bw/day, mg/kg
General population - Dermal; Short term systemic effects: 0.625 bw/day, mg/kg
General population - Oral; Long term systemic effects: 0.1 bw/day, mg/kg
General population - Oral; Short term systemic effects: 0.625 mg/kg, bw/day

PNEC - Fresh water; Short term 0.001 mg/l

- Fresh water, Intermittent release; 0.001 mg/l

- marine water; Short term 0 mg/l

- STP; Short term 10 mg/l

Sediment (Freshwater); Short term 0.026 mg/kg
Sediment (Marinewater); Short term 0.003 mg/kg

- Soil; Short term 0.021 mg/kg

#### 8.2. Exposure controls

#### Protective equipment







Appropriate engineering

controls

Facilities storing or utilizing this material should be equipped with an eyewash facility and a

safety shower.

Eye/face protection Approved safety goggles.

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.

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 Pale Yellow.

Odour Characteristic.

Melting point <-20°C

Initial boiling point and range 92°C @ 1013 hPa

Flash point 70-90°C

Vapour pressure 22.14 Pa @ 25°C

Relative density 0.850 - 0.950 @ 20°C

#### CITRONELLA JAVA OIL



Solubility(ies) 0.05 - 1767 mg/l water @ 25°C

Partition coefficient log Kow: 2.73 - 7.04

Auto-ignition temperature 240°C

9.2. Other information

Refractive index 1.450 - 1.490 @ 20°C

**Hydrocarbon Content** 

#### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

Reactivity Not known.

10.2. Chemical stability

Stability Stable under the prescribed storage conditions.

#### 10.3. Possibility of hazardous reactions

Possibility of hazardous

No data available.

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.

#### 10.6. Hazardous decomposition products

Hazardous decomposition

products

No data available.

#### **SECTION 11: Toxicological information**

#### 11.1. Information on toxicological effects

Acute toxicity - oral

ATE oral (mg/kg) 500.0

#### SECTION 12: Ecological information

#### 12.1. Toxicity

Acute aquatic toxicity

Acute toxicity - fish LL<sub>50</sub>, 96 hours: 7.5 mg/l, Oncorhynchus mykiss (Rainbow trout)

Acute toxicity - aquatic

invertebrates

EL50, 48 hours: 6.0 mg/l, Daphnia magna

Acute toxicity - Not known.

microorganisms

Acute toxicity - terrestrial Not known.

#### 12.2. Persistence and degradability

Persistence and degradability The product is readily biodegradable.

#### 12.3. Bioaccumulative potential

#### CITRONELLA JAVA OIL

Partition coefficient log Kow: 2.73 - 7.04

12.4. Mobility in soil

Mobility No data available.

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

Results of PBT and vPvB

assessment

This substance is not classified as PBT or vPvB according to current EU criteria.

#### 12.6. Other adverse effects

#### **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Disposal methods Dispose of waste product or used containers in accordance with local regulations

#### **SECTION 14: Transport information**

#### 14.1. UN number

UN No. (ADR/RID) 3082

UN No. (IMDG) 3082

UN No. (ICAO) 3082

UN No. (ADN) 3082

#### 14.2. UN proper shipping name

Proper shipping name

(ADR/RID)

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

Proper shipping name (IMDG) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

Proper shipping name (ICAO) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

Proper shipping name (ADN) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

#### 14.3. Transport hazard class(es)

ADR/RID class 9

ADR/RID classification code M6

ADR/RID label 9

IMDG class 9

ICAO class/division 9

ADN class 9

#### Transport labels



#### 14.4. Packing group

ADR/RID packing group III

IMDG packing group III

ICAO packing group III

#### CITRONELLA JAVA OIL

ALTEVITA
Life - Health - Beauty

ADN packing group

111

#### 14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant



#### 14.6. Special precautions for user

EmS F-A, S-F

ADR transport category 3

Emergency Action Code •3Z

Hazard Identification Number

(ADR/RID)

.....

90

Tunnel restriction code (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).

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of

Chemicals (REACH) (as amended).

Guidance CHIP for everyone HSG228.

#### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

#### Inventories

**EU - EINECS/ELINCS** 

Complies

Canada - DSL/NDSL

DSL

US - TSCA

Complies

US - TSCA 12(b) Export Notification

Not listed.

Australia - AICS

Complies

Japan - ENCS

Complies

Korea - KECI

Complies

#### CITRONELLA JAVA OIL

China - IECSC Complies

Philippines - PICCS

Complies

New Zealand - NZIOC

Complies

Taiwan - NECI

Complies

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

Revision date 18/06/2019

Revision 6

Supersedes date 18/06/2019

SDS number 4714

Hazard statements in full H226 Flammable liquid and vapour.

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage. 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.
H412 Harmful to aquatic life with long lasting effects.
H413 May cause long lasting harmful effects to aquatic life.

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	T					
Product Name	CITRONELLA JAVA OIL					
Product Code	OECITR	OECITR				
INCI Name	Cymbopogon					
Country of Origin	China / Indonesia					
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.					
Irradiation Statement	We hereby confirm from information received from our supplier that this product has not undergone any treatments at any stage for preservation, sterilisation (e.g irradiation, fumigation etc.)					
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 doe not derive from genetically modified starting raw material, or additives that are derived from genetically modified organisms.					
BSE (Bovine Spongiform	We hereby declare, from information	We hereby declare, from information received from our supplier, that this product is entirely				
Encephalopathy) and TSE	free from BSE and TSE. This product does not contain and is not produced from any animal					
(Transmissble Spongiform	origin.					
Encephalopathy) Declaration						
Manufacturing Process	Steam distillation of the freshly cut of	Steam distillation of the freshly cut or partially dried grasses of Cymbopogon Winterianus.				
Identification	CAS No: 91771-61-8	EINECS No: 294-954-7				
	Alternative Cas: 8000-29-1	FEMA No: 2308				
	CoE: 39	FDA No: 182.20				
PHYSICAL AND CHEMICA	L CHARACTERISTIC					
Appearance	Liquid					
Colour	Pale yellow					
Odour	Characteristic					
Initial Boiling Point and range	220 - 225°c	220 - 225°c				
Flash Point	70-90°c	70-90°c				
Vapour Pressure @ 25°c	0.8 mm Hg					
Relative Density @ 20°c	0.850 - 0.950	0.850 - 0.950				
Refractive Index @ 20°c	1.450 - 1.490					
FRAGRANCE ALLERGENS						
Citral (5392-40-5) <2%	Citronellol (106-22-9) Ca 12.74%	Limonene (5989-27-5) Ca 3.76%				
Eugenol (97-53-0) Ca 1.05%	Farnesol (4602-84-0) <1%	Geraniol (106-24-1) Ca 21%				
Linalool (78-70-6) Ca 1%	10 25.	10 20				
FOOD ALLERGENS	**					
NONE						
IFRA						
Citral (5392-40-5) <2%	Geraniol (106-24-1) Ca 21%	Eugenol (97-53-0) Ca 1.05%				
Farnesol (4602-84-0) <1%	Citronellol (106-22-9) Ca 12.74%					
STORAGE AND SHELF LIF						
Storage	Store in tightly closed container v	with minimum headspace in a cool, dark and dry place.				
Shelf Life		36 months unopened and stored as above.				
ADDRESS TO THE STATE OF THE STA	rial designated and may not be will for such material used to combination with any other materials as in any appear. Each information with the such materials as in the such materials.					

DISCLAIMER: This information relates only to the specific material designated and may not be valid for such material used in combination 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.

Issue no: 3



# Vegan and Vegetarian Statement

IDENTIFICATION				
Product:	CITRONELLA JAVA OIL			
Cas No:	91771-61-8			
EINECS No:	294-954-7			
	STATEMENT			

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

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

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.