



Material Safety Data Sheet

CITRONELLA

Date: May 2014

1. Product and Supplier Description

Trade Name: Citronella

INCI: Cymbopogon winterianus Herb Oil

Supplier:

Aromantic Ltd
17 Tytler Street
Forres
Moray

IV36 1EL

Tel: 01309 696900

Fax: 01309 696911

Email: info@aromantic.co.uk

CAS Number: 91771-61-8

EC (EINECS) Number: 294-954-7

Chemical Name: DEFINITION/BOTANICAL ORIGIN: Cymbopogon winterianus Herb Oil is an essential oil obtained from the herbs of the plant, Cymbopogon winterianus, Gramineae.

2. Hazards Identification

CLASSIFICATION (1999/45) Xi; R38, R41. R43. N; R51/53.

CLASSIFICATION (EC 1272/2008)

Physical and Chemical Hazards Not classified.

Human Health Skin Irrit. 2 – H315; Eye Dam. 1 – H318; Skin Sens. 1 – H317

Environment Aquatic Chronic 2 – H411

LABEL IN ACCORDANCE WITH (EC) NO. 1272/2008



SIGNAL WORD: Danger

CONTAINS: CITRONELLAL
CITRONELLOL
FARNESOL
GERANIOL
LIMONENE

HAZARD STATEMENTS:

- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H318 Cause serious eye damage.
- 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.
- P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

SUPPLEMENTARY PRECAUTIONARY STATEMENTS:

- P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
- P272 Contaminated work clothing should not be allowed out of the workplace.
- P302+352 IF ON SKIN: Wash with plenty of soap and water.
- P310 Immediately call a POISON CENTER or doctor/physician.
- P332+313 If skin irritation occurs: Get medical advice/attention.
- P333+313 If skin irritation or rash occurs: Get medical advice/attention.
- P362 Take off contaminated clothing and wash before reuse.
- P363 Wash contaminated clothing before reuse.
- P391 Collect spillage.

3. Composition and Ingredient Information

CITRONELLAL 30-60%

CAS-No.: 106-23-0	EC No.: 203-376-6
Classification (EC 1272/2008)	Classification (67/548/EEC)
Skin Irrit. 2 – H315	Xi; R38.
Skin Sens. 1 – H317	N; R51/53
Aquatic Chronic 2 – H411	R43

CITRONELLOL 10-30%

CAS-No.: 26489-01-0	EC No.: 247-737-6
Classification (EC 1272/2008)	Classification (67/548/EEC)

Skin Irrit. 2 – H315 Xi; R38.
Skin Sens. 1 – H317 N; R51/53
Aquatic Chronic 2 – H411 R43.

FARNESOL 1-5%

CAS-No.: 4602-84-0 EC No.: 225-004-1
Classification (EC 1272/2008) Classification (67/548/EEC)
Skin Irrit. 2 – H315 Xi; R36/38.
Eye Irrit. 2 – H319 R43.
Skin Sens. 1 – H317

GERANIOL 10-30%

CAS-No.: 106-24-1 EC No.: 203-377-1
Classification (EC 1272/2008) Classification (67/548/EEC)
Skin Irrit. 2 – H315 Xi; R36/38.
Eye Dam. 1 – H318 R43.
Skin Sens. 1 – H317

GERANYL ACETATE 5-10%

CAS-No.: 105-87-3 EC No.: 203-341-5
Classification (EC 1272/2008) Classification (67/548/EEC)
Aquatic Chronic 2 – H411 N; R51/53.

LIMONENE 5-10%

CAS-No.: 138-86-3 EC No.: 205-341-0
Classification (EC 1272/2008) Classification (67/548/EEC)
Flam. Liq. 3 – H226 Xn; R65.
Skin Irrit. 2 – H315 Xi; R38.
Skin Sens. 1 – H317 N; R50/53.
Asp. Tox. 1 – H304 R10, R43.
Aquatic Acute 1 – H400
Aquatic Chronic 1 – H410

The Full Text for all R-Phrases and Hazard Statements is displayed in Section 16

EC (EINECS) No: 294-954-7

CAS-No. 91771-61-8

4. First Aid Measures

GENERAL INFORMATION: Remove affected person from source of contamination. Perform artificial respiration if breathing has stopped.

NOTES TO THE PHYSICIAN: No specific first aid measures noted.

INHALATION: Inhalation may cause coughing, tightness of the chest and irritation of the respiratory system. Move the exposed person to fresh air at once. Get medical attention if any discomfort continues.

INGESTION: If necessary, rinse mouth and provide fresh air. Get medical attention if any discomfort continues.

SKIN CONTACT: If necessary remove contaminated clothing and wash skin with soap and water. Get medical attention if any discomfort continues.

EYE CONTACT: Immediately flush with plenty of water for up to 15 minutes. Remove any contact

lenses and open eyes wide apart. Get medical attention if any discomfort continues.

5. Fire Fighting Measures

EXTINGUISHING MEDIA: Fire can be extinguished using: Foam, carbon dioxide or dry powder.

SPECIAL FIRE FIGHTING PROCEDURES: Containers close to the fire should be removed or cooled with water.

UNUSUAL FIRE & EXPLOSION HAZARDS: No unusual fire or explosion hazards noted.

SPECIFIC HAZARDS: When heated and in case of fire, toxic vapours/gasses may be formed.

PROTECTIVE MEASURES IN FIRE: Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

6. Measures in case of accidental release

PERSONAL PRECAUTIONS: Use protective gloves, goggles and suitable protective clothing. In case of spills, beware of slippery floors and surfaces.

ENVIRONMENTAL PRECAUTIONS: Do not discharge into drains, water courses or onto the ground.

SPILL CLEAN UP METHODS: Absorb with inert, damp, non-combustible material, then flush area with water. Shovel into dry containers. Cover and move the containers. Flush the area with water.

7. Handling and Storage

USAGE PRECAUTIONS: Avoid spilling, skin and eye contact. Ensure adequate ventilation of the working area. Adopt best manual handling considerations when handling, carrying and dispensing.

STORAGE PRECAUTIONS: Store in tightly closed original container in a dry, cool and well-ventilated place. Keep away from heat, sparks and open flame. Protect from freezing and direct sunlight.

STORAGE CLASS: Unspecified storage.

8. Exposure Controls/Personal Protection

PROTECTIVE EQUIPMENT:



ENGINEERING MEASURES: Provide adequate ventilation.

RESPIRATORY EQUIPMENT: No specific recommendation made, but respiratory protection may still be required under exceptional circumstances when excessive air contamination exists.

HAND PROTECTION: Protective gloves should be used if there is a risk of direct contact or splash.

EYE PROTECTION: If risk of splashing, wear safety goggles or face shield.

OTHER PROTECTION: Wear appropriate clothing to prevent any possibility of skin contact.

HYGIENE MEASURES: No specific hygiene procedures noted, but good personal hygiene practices are always advisable, especially when working with chemicals.

SKIN PROTECTION: Wear apron or protective clothing in case of splashes.

9. Physical and Chemical Properties

ANALYTICAL INFORMATION:

Appearance: Liquid

Colour: Pale yellow

Odour: Characteristic

Specific Gravity @ 20°C: 0.880 – 0.895

Refractive Index @ 20°C: 1.465 – 1.475

Flash Point °C: 73

Optical Rotation @ 20°C: +0 to -5°

10. Stability and Reactivity

STABILITY: Stable under normal temperature conditions.

CONDITIONS TO AVOID: Avoid heat, flames and other sources of ignition.

HAZARDOUS POLYMERISATION: Will not polymerise.

MATERIALS TO AVOID: Strong oxidizing substances. Strong acids. Strong Alkalis.

HAZARDOUS DECOMP. PRODUCTS: In case of fire, toxic gasses (CO, CO₂, NO_x) may be formed.

11. Toxicological Information

See section - 2

GENERAL INFORMATION: No specific health warnings noted.

INHALATION: In high concentrations, vapours may irritate throat and respiratory system and cause coughing.

INGESTION: No specific health warnings noted. No harmful effects expected in amounts likely to be ingested by accident.

SKIN CONTACT: No specific health warnings noted.

EYE CONTACT: Spray and vapour in the eyes may cause irritation and smarting.

HEALTH WARNINGS: No specific health warnings noted.

MEDICAL SYMPTOMS: No specific symptoms noted, but this chemical may still have adverse health impact, either in general or on certain individuals.

MEDICAL CONSIDERATIONS: Persons with rash are directed to skin expert for examination of allergic eczema.

12. Ecological Information

ECOTOXICITY: Refer to section - 2

13. Disposal Considerations

GENERAL INFORMATION: Waste suitable for incineration.

DISPOSAL METHODS: Dispose of waste and residues in accordance with local authority requirements.

14. Transport Information



PROPER SHIPPING NAME: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S
(CITRONELLAL, CITRONELLOL)

UN NO. ROAD: 3082

ADR CLASS NO: 9 **ADR CLASS** Class 9: Miscellaneous dangerous substances and articles.

ADR PACK GROUP III TUNNEL RESTRICTION CODE (E)

HAZARD No. (ADR) 90 ADR LABEL No. 9

HAZCHEM CODE •3Z

UN NO. SEA 3082 IMDG CLASS 9

IMDG PACK GR III EMS F-A, S-F

UN NO. AIR 3082 AIR CLASS 9

AIR PACK GR. III

15. Regulatory Information

EU DIRECTIVES: 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), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC 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 Preparations Dangerous for Supply.

GUIDANCE NOTES: Workplace Exposure Limits EH40

16. Other Information

GENERAL INFORMATION:

Shelf life: 36 months when stored within advised conditions.

RISK PHRASES IN FULL:

R10 Flammable.

R65 Harmful: may cause lung damage if swallowed.

R36/38 Irritating to eyes and skin.

R38 Irritating to skin.

R43 May cause sensitisation by skin contact.

R41 Risk of serious damage to eyes.

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

HAZARD STATEMENTS IN FULL:

H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H315 Causes skin irritation.
H226 Flammable liquid and vapour.
H304 May be fatal if swallowed and enters airways.
H317 May cause an allergic skin reaction.
H411 Toxic to aquatic life with long lasting effects.
H410 Very toxic to aquatic life with long lasting effects.
H400 Very toxic to aquatic life.

The information contained herein is accurate to the best of our knowledge from a variety of sources. No liability can be accepted arising out of the use, application or processing of this product. It is the users' responsibility to determine the safe conditions for use of this product.