

LEMONGRASS ESSENTIAL OIL

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP) & 2020/878

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**1.1 Product identifier**

Product Name LEMONGRASS ESSENTIAL OIL
 Substance name Cymbopogon citratus, ext.
 CAS No. 8007-02-1/89998-14-1
 EC No. 616-903-3/289-752-0
 REACH Registration No. Exempt: tonnage band under 1 ton/year

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

Identified Use(s) Raw material for industry
 Cosmetic products, detergents
 Uses Advised Against Not known.

***1.3 Details of the supplier of the safety data sheet**

Supplier
 Company Identification Scents From Nature - Natural Essential Oils Company, Lda
 Address of Manufacturer Zona Industrial da Ladeira da Calça, Lote 1
 Postal code 3260-305 Figueiró dos Vinhos, Portugal
 Telephone: (+351) 236 551 093
 E-mail Info@SCENTSNATURE.com

1.4 Emergency telephone number

National response centre
 Address Centro de Informação Antivenenos (CIAV)
 INEM – Instituto Nacional de Emergência Médica,
 Rua Almirante Barroso, 36,
 1000 – 013 LISBOA, Portugal.
 Emergency Phone No. 800 250 250

SECTION 2: HAZARDS IDENTIFICATION**2.1 Classification of the substance or mixture**

Regulation (EC) No. 1272/2008 (CLP) Flam. Liq. 3 : Flammable liquid and vapour
 Asp. Tox. 1 : May be fatal if swallowed and enters airways.
 Skin Irrit. 2 : Causes skin irritation.
 Skin Sens. 1B : May cause an allergic skin reaction.
 Eye Dam. 1 : Causes serious eye damage.
 Aquatic Chronic 3 : Harmful to aquatic life with long lasting effects.

2.2 Label elements

Product Name According to Regulation (EC) No. 1272/2008 (CLP)
 Substance name LEMONGRASS ESSENTIAL OIL
 Cymbopogon citratus, ext.

Hazard Pictogram(s)



GHS02



GHS05



GHS08



GHS07

Signal Word(s)

Danger

Hazard Statement(s)

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.
 H318: Causes serious eye damage.
 H412: Harmful to aquatic life with long lasting effects.
 Contains (R)-p-mentha-1,8-diene (d-limonene)

Precautionary Statement(s)

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P264: Wash hands and exposed skin thoroughly after handling.
 P280: Wear protective gloves/protective clothing/eye protection/face protection.
 P301+P310: IF SWALLOWED: Immediately call a POISON CENTRE/doctor.
 P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P310: Immediately call a POISON CENTRE/doctor.

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P331: Do NOT induce vomiting.

2.3 Other hazards

None known.

2.4 Additional Information

For full text of H/P Statements see section 16.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**3.1 Substances**

HAZARDOUS INGREDIENT(S)	CAS No.	EC No. / REACH Registration No.	%W/W	Hazard Statement(s)	Hazard Pictogram(s)
Cymbopogon citratus, ext.	8007-02-1/ 89998-14-1	616-903-3/ 289-752-0	100	Flam. 3 (H226) Asp. Tox. 1 (H304) Skin Irrit. 2 (H315) Skin Sens. 1B (H317) Eye Dam. 1 (H318) Aquatic Chronic 3 (H412)	GHS02 GHS05 GHS07 GHS08

Major constituents of the substance contributing to the classification:

HAZARDOUS INGREDIENT(S)	CAS No.	EC No. / REACH Registration No.	%W/W	Hazard Statement(s)	Hazard Pictogram(s)
citral	5392-40-5	226-394-6	40-78	Skin Irrit. 2 H315 Skin Sens. 1 : H317 Eye Irrit. 2 H319	GHS07
7-methyl-3-methyleneocta-1,6-diene (myrcene)	123-35-3	204-622-5	10-30	Flam. Liq. 3 : H226 Asp. Tox. 1 : H304 Skin Irrit. 2 : H315 Eye Irrit. 2 : H319 Aquatic Acute 1 : H400 Aquatic Chronic 2 : H411	GHS02 GHS08 GHS07 GHS09

HAZARDOUS INGREDIENT(S)	CAS No.	Specific Concentration Limit	M-factor	ATE
7-methyl-3-methyleneocta-1,6-diene	123-35-3	-	M=1 (H400)	-

Contains no non-classified vPvB substances.

Contains no non-classified substances with a Union workplace exposure limit.

For full text of H/P Statements see section 16.

SECTION 4: FIRST AID MEASURES**4.1 Description of first aid measures**

Inhalation	Treat symptomatically.
Skin Contact	Take off immediately all contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention. IF ON SKIN: wash with plenty of water.
Eye Contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTRE/doctor.
Ingestion	Do NOT induce vomiting. Immediately call a POISON CENTRE/doctor.

4.2 Most important symptoms and effects, both acute and delayed

Causes burns. Allergic contact dermatitis.

4.3 Indication of any immediate medical attention and special treatment needed

Immediately call a POISON CENTRE/doctor. Treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES**5.1 Extinguishing media**

Suitable Extinguishing media	Use water spray, carbon dioxide, dry chemical powder, or appropriate foam to extinguish.
Unsuitable extinguishing media	Water jet spary.

5.2 Special hazards arising from the substance or mixture

Flammable liquid and vapour.

5.3 Advice for firefighters

Fire fighters should wear complete protective clothing including self-contained

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breathing apparatus. Dike fire control water for later disposal.

SECTION 6: ACCIDENTAL RELEASE MEASURES

- 6.1 Personal precautions, protective equipment and emergency procedures**
Provide adequate ventilation. Wear suitable protective clothing, gloves and eye/face protection.
- 6.2 Environmental precautions**
Avoid release to the environment. Spillages or uncontrolled discharges into watercourses must be alerted to the appropriate regulatory body.
- 6.3 Methods and material for containment and cleaning up**
Collect spilled product. Adsorb and contain spillages with sand, earth or any suitable adsorbent material. Earth may be shovelled to contain spillage and to avoid contamination of sewers and watercourses.
- 6.4 Reference to other sections**
See Also Section 8, 13.

SECTION 7: HANDLING AND STORAGE

- 7.1 Precautions for safe handling**
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Wash hands and exposed skin thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Avoid breathing dust/fume/gas/mist/vapours/spray.
- 7.2 Conditions for safe storage, including any incompatibilities**
Store locked up. Store in a well-ventilated place. Keep cool.
- Storage temperature: Ambient.
- Storage life: Stable under normal conditions.
- Incompatible materials: None known.
- 7.3 Specific end use(s)**
Not known.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

- 8.1 Control parameters**
8.1.1 Occupational Exposure Limits: No Occupational Exposure Limit assigned.
- 8.2 Exposure controls**
 - 8.2.1. Appropriate engineering controls: Use with ventilation, local exhaust ventilation or breathing protection. A washing facility/water for eye and skin cleaning purposes should be present.
 - 8.2.2. Personal protection equipment
 -  Eye Protection: Wear eye protection with side protection (EN166).
 -  Skin protection: Wear protective clothing and gloves: Impervious gloves (EN 374).
 -  Respiratory protection: A suitable mask with filter type A (EN14387 or EN405) may be appropriate.
 -  Thermal hazards: None known.
 - 8.2.3. Environmental Exposure Controls: Collect spilled product. Spillages or uncontrolled discharges into watercourses must be alerted to the appropriate regulatory body.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

- 9.1 Information on basic physical and chemical properties**
Physical state: Liquid.
Colour: Yellow
Odour: Strong and Citric
Melting point/freezing point: Not known. +

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Boiling point or initial boiling point and boiling range	Not known. *
Flammability	Not known. *
Lower and upper explosion limit	Not known. *
Flash Point	44°C
Auto-ignition temperature	Not known. *
Decomposition Temperature	Not known. *
pH	4.69
Dynamic viscosity	Not known. *
Kinematic Viscosity	Not known. *
Solubility	Solubility (Water) : Not known. + Solubility (Other) : Not known. +
Partition coefficient n-octanol/water (log value)	Not known. *
Vapour pressure	Not known. *
Density and/or relative density	Density (g/ml) : 0.8708-0.8970
Relative vapour density	Not known. *
Particle characteristics	Not known. *

* There are no data available at the time of writing this document or it is not applicable due to the nature and danger of the product

9.2 Other information

None.

SECTION 10: STABILITY AND REACTIVITY**10.1 Reactivity**

None anticipated.

10.2 Chemical Stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

No hazardous reactions known if used for its intended purpose.

10.4 Conditions to avoid

None anticipated.

10.5 Incompatible materials

Not known.

10.6 Hazardous decomposition products

No hazardous decomposition products known.

SECTION 11: TOXICOLOGICAL INFORMATION**11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**

Acute toxicity - Ingestion	Calculation method : Not classified.
Acute toxicity - Skin Contact	Calculation method : Not classified.
Acute toxicity - Inhalation	Calculation method : Not classified.
Skin corrosion/irritation	Calculation method : Causes skin irritation.
Serious eye damage/irritation	Calculation method : Causes serious eye damage.
Skin sensitization data	Calculation method : May cause an allergic skin reaction.
Respiratory sensitization data	Calculation method : Not classified.
Germ cell mutagenicity	Calculation method : Not classified.
Carcinogenicity	Calculation method : Not classified.
Reproductive toxicity	Calculation method : Not classified.
Lactation	Calculation method : Not classified.
STOT - single exposure	Calculation method : Not classified.
STOT - repeated exposure	Calculation method : Not classified.
Aspiration hazard	Calculation method : May be fatal if swallowed and enters airways.

11.2 Information on other hazards

Not known.

SECTION 12: ECOLOGICAL INFORMATION**12.1 Toxicity**

Toxicity - Aquatic invertebrates	Toxic to aquatic life. Harmful to aquatic life with long lasting effects.
Toxicity - Fish	Not known.
Toxicity - Algae	Not known.
Toxicity - Sediment Compartment	Not classified.
Toxicity - Terrestrial Compartment	Not classified.

12.2 Persistence and degradability

citral	Readily biodegradable
7-methyl-3-methyleneocta-1,6-diene	Readily biodegradable

12.3 Bioaccumulative potential

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- Not known.
- 12.4 Mobility in soil** Not known.
- 12.5 Results of PBT and vPvB assessment** Not known.
- 12.6 Endocrine disrupting properties** None known.
- 12.7 Other adverse effects** Not known.

SECTION 13: DISPOSAL CONSIDERATIONS

- 13.1 Waste treatment methods** Dispose of contents in accordance with local, state or national legislation. Send to a licensed recycler, reclaimer or incinerator. Dispose of this product and its container, sending them to an authorized collection and recovery/disposal company.
- 13.2 Additional Information** Disposal should be in accordance with local, state or national legislation.

SECTION 14: TRANSPORT INFORMATION

- *14.1 UN number or ID number**
- UN No. 1197
- *14.2 UN proper shipping name**
- UN proper shipping name EXTRACTS, LIQUID
- *14.3 Transport hazard class(es)**
- ADR/RID
- ADR/RID Class 3
- ADR Classification Code F1
- Special Provisions 601
- Limited Quantities 5 L
- Excepted Quantities E1
- Emergency Action Code 3Y
- Mixed Packing Instructions for Packages P001 IBC03 LP01 R001
- Special Packing Provisions for Packages
- Mixed Packing Instructions for Packages MP19
- Packing Instructions for Portable Tanks T2
- Special Provisions for Portable Tanks TP1
- Tank Code for Tanks LGBF
- Special Provisions for Tanks
- Vehicle for Tank Carriage FL
- ADR Transport Category 3
- Tunnel Restriction Code D/E
- Special Provisions for Carriage - Packages V12
- Special Provisions for Carriage - Bulk
- Special Provisions for Carriage - Loading, Unloading and Handling
- Special Provisions for Carriage - Operation S2
- ADR HIN 30
- IMDG
- IMDG Class 3
- Special Provisions 601
- Limited Quantities 5 L
- Excepted Quantities E1
- Mixed Packing Instructions for Packages P001 IBC03 LP01 R001
- Special Packing Provisions for Packages
- Packing Instructions for Portable Tanks T2
- Special Provisions for Portable Tanks TP1
- IMDG EMS F-E, S-D
- Stowage and Handling Category A
- Segregation
- Marine Pollutant
- ICAO/IATA
- IATA Proper Shipping Name EXTRACTS, LIQUID
- Excepted Quantities E1
- Passenger and Cargo Aircraft Limited Quantities Packing Instructions Y344
- Passenger and Cargo Aircraft Limited Quantities Max net Qty 10L

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Passenger and Cargo Aircraft Packing Instructions	355
Passenger and Cargo Aircraft Max net Qty	60L
Cargo Aircraft Packing Instructions	366
Cargo Aircraft Max net Qty	220L
Special Provisions	A3
Emergency Response Guidebook (ERG) Code	3L
Labels	
Labels	3



14.4 Packing group	
Packing group	III
14.5 Environmental hazards	
Environmental hazards	Not classified as a Marine Pollutant.
14.6 Special precautions for user	
Special precautions for user	Not known.
14.7 Maritime transport in bulk according to IMO instruments	
	No information available

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

European Regulations - Authorisations and/or Restrictions On Use	
Candidate List of Substances of Very High Concern for Authorisation	Not listed
REACH: ANNEX XIV list of substances subject to authorisation	Not listed
REACH: Annex XVII Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	Not listed
Community Rolling Action Plan (CoRAP)	citral (5392-40-5)
Regulation (EU) N° 2019/1021 of the European Parliament and of the Council on persistent organic pollutants	Not listed
Regulation (EC) N° 1005/2009 on substances that deplete the ozone layer	Not listed
Regulation (EU) N° 649/2012 of the European Parliament and of the Council concerning the export and import of hazardous chemicals	Not listed
National regulations	
Other	Not known.
15.2 Chemical Safety Assessment	
	A REACH chemical safety assessment has not been carried out.

***SECTION 16: OTHER INFORMATION**

The following sections contain revisions or new statements:

LEGEND

Revision 2.1	28/09/2023
Replaces:	Revision 2 of 07/07/2022
Section 1.3	Update supplier contact details
Section 14.1	Change to new UN number 1197
Section 14.2, 14.3	Change to new proper shipping name: EXTRACTS, LIQUID
Revision 2	07/07/2022
Replaces:	Revision 1 of 13/12/2021
Section 2.1	Add H226 and H412 to classification
Section 2.2	Add H226 and H412 as hazard statement and pictogram GHS02. Remove pictogram GHS09.
	Add P210 and remove P302+P352
Section 3.1	Update classification in accordance with new major constituent of the substance and replace pin-2(3)-ene for mircene
Section 4.1	Update section in accordance with new classification

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Section 5.1	Update section in accordance with new classification
Section 5.2	Update section in accordance with new classification
Section 7.1	Update section in accordance with new classification
Section 7.2	Update section in accordance with new classification
Section 9	Update flash point, viscosity and density
Section 11.1	Update section in accordance with new classification
Section 12.1	Update section in accordance with new classification
Section 12.2	Update section in accordance with new classification
Section 14	Correct all section 14 in accordance with new classification
Section 16	Update section in accordance with the other updated sections

Revision 1 13/12/2021
Changes from the previous revision marked with an *

Hazard Pictogram(s)



GHS09: GHS: Environment

Hazard classification

Flam. Liq. 3 : Flammable liquid, Category 3
 Asp. Tox. 1 : Aspiration hazard, Category 1
 Skin Irrit. 2 : Skin corrosion/irritation, Category 2
 Skin Sens. 1 : Skin sensitization, Category 1
 Skin Sens. 1B : Skin sensitization, Category 1B
 Eye Dam. 1 : Serious eye damage/irritation, Category 1
 Eye Irrit. 2 : Serious eye damage/irritation, Category 2
 Aquatic Acute 1 : Hazardous to the aquatic environment, Acute, Category 1
 Aquatic Chronic 2 : Hazardous to the aquatic environment, Chronic, Category 2
 Aquatic Chronic 3 : Hazardous to the aquatic environment, Chronic, Category 3

Hazard Statement(s)

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.
 H318: Causes serious eye damage.
 H319: Causes serious eye irritation.
 H400: Very toxic to aquatic life.
 H411: Toxic to aquatic life with long lasting effects.
 H412: Harmful to aquatic life with long lasting effects.

Precautionary Statement(s)

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P264: Wash hands and exposed skin thoroughly after handling.
 P280: Wear protective gloves/protective clothing/eye protection/face protection.
 P301+P310: IF SWALLOWED: Immediately call a POISON CENTRE/doctor.
 P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P310: Immediately call a POISON CENTRE/doctor.
 P331: Do NOT induce vomiting.

Acronyms

ADN : European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
 ADR : European Agreement concerning the International Carriage of Dangerous Goods by Road
 ATE : Acute Toxicity Estimate
 CAS : Chemical Abstracts Service
 CLP : Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
 DNEL : Derived No Effect Level
 EC : European Community
 EINECS : European Inventory of Existing Commercial Chemical Substances
 IATA : International Air Transport Association
 IBC : Intermediate Bulk Container
 ICAO : International Civil Aviation Organization

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IMDG : International Maritime Dangerous Goods
LTEL : Long term exposure limit
PBT : Persistent, Bioaccumulative and Toxic
PNEC : Predicted No Effect Concentration
REACH : Registration, Evaluation, Authorisation and Restriction of Chemicals
RID : Regulations concerning the International Carriage of Dangerous Goods by Rail
STEL : Short term exposure limit
STOT : Specific Target Organ Toxicity
UN : United Nations
vPvB : very Persistent and very Bioaccumulative

Key literature references and sources for data used to compile the SDS Regulation (EC) No. 1272/2008 (CLP)

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