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Section 1.Identification of the substance or the mixture and of the supplier

1.1. Product Identifier

Product identifier Lemon Oil

Biological Definition Citrus Limon Peel Oil is the volatile oil

obtained fresh lemon peels.

INCI name Citrus Limon Peel Oil

Synonyms and Trade Names Lemon Oil

Botanical name Citrus Limon (L) Burm. F.

CAS number 8008-56-8
EINECS number 284-515-8
FEMA number 2625
FDA number 182.2
CoE number 139
RIFM number 1094

1.2. Relative identified uses of the substance or mixture and uses advised against Flavours and Fragrances: Use in accordance with good manufacturing and industrial hygiene practices. Not for personal use in this concentration.

1.3. Details of the supplier of the safety data sheet

Company name Agrumaria Corleone S.p.A.

Company address Via Salvatore Corleone, 12, 90124 - PALERMO Contact Dr.ssa Valeria Corleone - Quality Assurance

E-mail address vacorleone@agrumariacorleone.com

Company phone +39 (0) 916213933

1.4. Emergency telephone number

Office hours +39 (0) 916213933 Out of hours contact +39 (0) 916213933

Section 2. Hazard Identification

2.1 Classification of the substance or mixture

The full text for the all hazard statements are displayed in section 16

Classification under Regulation (EC) N. 1272/2008



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Class and category of danger

Flammable liquid, category 3, H226 Aspiration Hazard, category 1, H304 Skin irritation/corrosion, category 2, H315 Skin sensitization, category 1, H317 Aquatic Acute hazard, category 1, H400 Aquatic Chronic hazard, category 1, H411

Classification under Directive 67/548/EEC

Hazard symbols

Xn - Harmful

N - Dangerous for the environment

2.2 Label elements

Label in accordance with (EC) N. 1272/2008

GHS02	GHS08	GHS07	GHS09
J.			*
E3/			12

Signal word Contains

Hazard statement

Danger

Limonene, alfa-Pinene, Myrcene, beta-

Pinene, Linalool

H226, flammable liquid and vapour

H304 , May be fatal if swallowed and enters

airways

H315, cause skin irritation

H317, may causes an allergic skin reaction

H400, very toxic to aquatic life

H411, Toxic to aquatic life with long-lasting

effects

Precautionary statements P210, keep away from heat, sparks, open

flames and hot



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surface. No smoking P233, keep container tightly closed P240, Ground/bond container and receiving equipment P241, Use explosion-proof electrical/ventilating/light equipment P242, Use only non-sparking tools P243, Take precautionary measures against static discharge P261, Avoid breathing dust/fume/gas/mist/vapours/spray P264, Wash hands and other contacted skin thoroughly after handling P272, Contaminated work clothing should not be allowed out of the workplace P273, Avoid release to the environment P280, Wear protective gloves/clothing, eye/face protection P301/310, IF SWALLOWED: immediately call a POISON CENTER or doctor/physician P303/361/353, IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower P331, Do NOT induce vomiting P333/313, If skin irritation or a rash occurs: Get medical /attention P362, Take off contaminated clothing and wash before reuse P370/378, In case of fire: Use carbon dioxide, dry chemical, foam for extinction P391, Collect spillage P403/235, store in well ventilated place. keep cool P405, Store locked up P501, dispose of contents/container to approved disposal site, in accordance with local regulations

2.3 Other Hazards

PBT or vPvB according to Annex XIII : No additional data available. Adverse physio-chemical properties

: No additional data available.



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Adverse effects on human health : No additional data available.

Section 3. Composition/Information on ingredients

3.1 Substances

55.0 - 70.0 % D-Limonene CAS-No: 5989-27-5 EC No.: 227-813-5 Classification (EC 1272/2008): Flam. Liq. 3 - H226, Skin Irrit. 2 - H315, Skin Sens. 1 - H317

Asp. Tox. 1 - H304, Aquatic Acute 1 - H400, Aquatic Chronic 1 - H411

< 3.0% α-Pinene CAS-No: 80-56-8 EC No.: 201-291-9

Classification (EC 1272/2008): Flam. Liq. 3 - H226, Skin Irrit. 2 - H315, Skin Sens. 1 - H317 Asp. Tox. 1 - H304

< 2.5 % Myrcene (7-methyl-3-methyleneocta-1,6-diene) CAS-No: 123-35-3 EC No.: 204-622-5 Classification (EC 1272/2008): Flam. Liq. 3 - H226, Skin Irrit. 2 - H315, Eye Irrit. 2 - H319 Asp. Tox. 1 - H304

< 5.0 % Citral CAS-No: 5392-40-5 EC No.: 226-394-6

Classification (EC 1272/2008): Skin Irrit. 2 - H315, Skin Sens. 1 - H317

< 0.3% Linalool CAS-No: 78-70-6 EC No.: 201-134-4 Classification (EC 1272/2008): Skin Irrit. 2 - H315

Section 4. First-aid measures

Inhalation

4.1 Description of first aid measures

immediately obtain medical advice.

Ingestion Wash mouth out with water and immediately

obtain medical advice. DO NOT INDUCE

Remove from exposure area to fresh air and

VOMITING!

Skin Contact Take off clothing and wash immediately with

soapy water. Seek medical advice if irritation persists of there is any sign of skin damage.



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Eyes Contact

Rinse thoroughly with water for at least 15 minutes. Remove contact lenses. Seek medical advice.

4.2 Most important symptoms and effects, both acute and delayed

May be fatal if swallowed and enters airways Causes skin irritation, can cause bloodshot eyes May cause an allergic skin reaction For inhalation can cause slight headache

4.3 Indication of any immediate medical attention and special treatment needed

Immediate medical assistance: see section 4.1 for further information Immediate special treatment: see section 4.1 for further information First aid specific means: eye wash fountains/safety shower should be available in the work area

Section 5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media:

Small fire: Use carbon dioxide, dry chemical, foam. Spray to base of flames.

Large fire: Use water spray or fog. Cool containers with a water jet to prevent pressure build up, autoignition or explosion.

Unsuitable extinguishing media:

Pressurised water jet.

5.2 Special hazards arising from the substance or mixture

Vapor may form an explosive mixture with air. In case of fire, Carbon monoxide, Carbon dioxide, smoke and soot may be liberated.

5.3 Advice for fire fighters

Standard procedure for chemical fires. Spray extinguishing media to base of flames. Wear protective clothing. Avoid inhalation of vapours. Wear suitable respiratory equipment . In case of ignition , cool the endangered containers .

Section 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

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Ensure adequate ventilation of the working area. Evacuate personnel to a safe area. Wear protective clothing as described in Section 8 of this safety data sheet.

6.2 Environmental precautions

Do not allow to enter canals, waterways, groundwater, soil.

6.3 Methods and materials for containment and cleaning up

Remove ignition sources and provide adequate ventilation . Soak up with absorbent , inert material , or sand . Wash with water and detergent $\,$.

6.4 Reference to other sections

Please refer to section 4,8 and 13.

Section 7. Handling and storage

7.1 Precautions for safe handling

Apply good manufacturing practice & industrial hygiene practices, ensuring proper workplace ventilation. Keep original container closed. Avoid contact with skin and eyes. Observe good personal hygiene, and do not eat, drink or smoke whilst handling. Keep away from heat, sparks and open flame. Avoid exposing to high temperatures during processing.

7.2 Conditions for safe storage, including any incompatibilities

To be stored in tightly closed containers, preferably under an inert atmosphere (e.g. nitrogen) with minimum head space protected from daylight. Store in a dry, aerated place (between 0 - 25°C) away from heat and ignition sources.

7.3 Specific end uses

Flavours and Fragrances according to good manufacturing and industrial hygiene practices.

Section 8. Exposure controls/personal protection

8.1 Control parameters

No additional data available

8.2 Exposure controls

Protective Equipment



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Process Conditions Engineering Measures

Respiratory Equipment

Hand Protection

Skin Protection

Eye Protection

Other Protection

Hygiene Measures

Environmental Exposure Controls

Provide eyewash station.

Provide adequate ventilation Avoid static

discharges in working area.

Avoid breathing vapours. Respiratory

equipment should not be necessary with

adequate

Avoid all skin contact. Wear chemical

resistant gloves (PVC) tested to EN374.

Wear apron or protective clothing in case of

splashes.

Avoid contact with eyes. Wear approved

safety goggles with built in frame tested to

EN166.

No additional data available.

Good personal hygiene practices are always

advisable, especially when working with chemicals /oils. Keep away from foodstuffs,

beverages

Avoid discharging into drainage water. Only

eliminate by authorized companies.

Section 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance Odour

Odour threshold

рН

Melting point/Freezing point

Initial boiling point and range

Flash point

Evaporation rate (vs H_2O)

From yellow to green liquid Characteristic of lemon

Not determined Not applicable

No data available

176.00 °C. @ 760.00 mm Hg

49°C

< 1



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Upper/lower flammability
Vapour pressure
Vapour density
Relative density
Solubility
Partition coefficient n-octanol/water
Auto-ignition temperature
Decomposition temperature
Viscosity
Explosive properties
Oxidizing properties

Not data available 0.95 mm/Hg @ 25.00 °C > 1 0,84 - 0.87 gr/ml @ 25.00 °C Not soluble in water Not data available Not data available

9.2 Other Information

Not available

Section 10. Stability and reactivity

10.1 Reactivity

Not present important reactivity hazard

10.2 Chemical stability

Stable at normal conditions of storage

10.3 Possibility of hazardous reactions

Not expected at normal conditions of use

10.4 Conditions to avoid

Excessive heat, flames

10.5 Incompatible materials

Acids, Alkalis, oxidising agents

10.6 Hazardous decomposition products

Not expected under normal temperature conditions and recommended use.

Section 11. Toxicological Information

11.1 Information of toxicological effect

Acute Dermal Toxicity LD50 [Rat]

>2000 mg/kg

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Acute Oral Toxicity LD50 [Rat]
Acute Inhalation LD50 [Rat]
Skin Corrosion/irritation
Serious eye damages/irritation
Respiratory or skin sensitisation
Germ cell mutagenicity
Carcinogenicity
Reproductive toxicity
STOT-single exposure
Aspiration hazard
STOT-Repeated exposure

Photo-toxicity

>5000 mg/kg >5000 mg/kg

Causes skin irritation (H315)

Not classified as irritating today (source CSR) May cause an allergic skin reaction (H317)

Negative (sources CSR)
No additional data available
No tested (sources CSR)
No additional data available
No additional data available

May be fatal if swallowed and enters airways

(H304)

No additional data available

Section 12. Ecological information

12.1 Toxicity

The product contains a substance which is toxic to aquatic organisms and which may cause long term adverse effects in the aquatic environment.

12.2 Persistence and degradability

To be considered as readily biodegradable based on its ready biodegradability. Oil does not fulfil the criteria for persistence.

12.3 Bioaccumulative potential

H411 Toxic to aquatic life with long-lasting effects.

12.4 Mobility in soil

Considered as a readily biodegradable NCS. Based on the ready biodegradability of the NCS, simulation tests in surface water, sediment and soil are not required in accordance with column2 of REACH Annex IX.

12.5 Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

12.6 Other adverse effects

Do not discharge into the environment especially not into waterways, sewers and the sea.

Section 13. Disposal considerations



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13.1 Waste treatment methods

Dispose in accordance with federal, state or local environmental regulations. Contact a licensed professional waste disposal service to dispose of empty containers, that should be taken to an approved waste handling site for recycling or disposal.

Section 14. Transport Information

14.1 UN number

UN No. Road/Sea/Air : UN 1169

14.2 UN Proper Shipping Name

EXTRACTS, AROMATIC, LIQUID

14.3 Transport hazard class

ADR/RID/Class 3 Flammable liquid IMDG Class 3 Flammable liquid ICAO Classe/Division 3 Flammable liquid

Transport Labels



14.4 Packaging group

ADR/RID/AND Packing Group III IMDG Packing Group III ICAO Packing Group III

14.5 Environmental hazards

Environmentally hazardous substances/Marine pollutant



14.6 Special precautions for user

This product contains flammables and dangerous for the environment. In case on pouring out, make sure label new packaging accordingly. Reproducing original label with relevant symbols.



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14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code
Not additional data available

Section 15. Regulatory Information

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

Statutory Instruments

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716).

Guidance Notes

Workplace Exposure Limits EH40. CHIP for everyone HSG(108).

EU Legislation

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.

15.2 Chemical Safety assessment

No additional data available

Section 16. Other Information

Hazard and/or precautionary

Statements in full

H226, flammable liquid and vapour

H304 , May be fatal if swallowed and enters

airways

H315, cause skin irritation

H317, may causes an allergic skin reaction H411, Toxic to aquatic life with long-lasting

effects

Complies with REACH guidance for SDS as

circulated by ECHA 2011.

19 June 2018

1st SDS format

Other information

Revision Date Reason of Revision



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Reason of Revision : 1st SDS format

The information provided in this safety data sheet is correct to the best of our knowledge. Furthermore, the information quoted is intended only as guidance for safe handling, use, processing, storage, transportation, disposal and is not to be considered as a warranty or quality specification.