

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Date of issue: 2019/02/25 Version: 1.0

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

1.1. Product identifier

Product form : Substance

Substance name Lemon Distilled Essential Oil

Chemical name : Citrus Limon Oil EC-No. 284-515-8

CAS-No. 84929-31-7 / 8008-56-8 REACH registration No 01-2119495512-35

Product code 10

Synonyms Citrus limon, (L) BURM. f.

Other means of identification : Essential oil extracted by physical means from the outer part of fresh lemon fruits

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

1.2.1. Relevant identified uses

Industrial/Professional use spec : For professional use only

Industrial

Use of the substance/mixture 1.2.2. Uses advised against

: Cosmetics

No additional Information available

1.3. Details of the supplier of the safety data sheet

Naturpole Magyarország Kft. Klapka street 4. Budapest 1193 Hungary www.naturpole.hu

1.4. Emergency telephone number

No additional information available

SECTION 2: Hazards identification

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Flammable liquids, Category 3 H226
Skin corrosion/irritation, Category 2 H315
Skin sensitisation, Category 1 H317
Aspiration hazard, Category 1 H304

Hazardous to the aquatic environment — Chronic Hazard, Category 2 H411

Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

Flammable liquid and vapour. Causes skin irritation. May cause an allergic skin reaction. May be fatal if swallowed and enters airways. Toxic to aquatic life with long lasting effects.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)



GHS02 GHS07 GHS08 GHS09

Signal word (CLP) : Danger

Hazard statements (CLP) : 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.

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Precautionary statements (CLP)

: P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

No smoking.

P262 - Do not get in eyes, on skin, or on clothing.

P264 - Wash hands, forearms and face thoroughly after handling.

P273 - Avoid release to the environment.

P280 - Wear protective clothing, eye protection, face protection.

P301+P310 - IF SWALLOWED: Immediately call a doctor, a POISON CENTER.

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

P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing.

Rinse skin with water or shower. P331 - Do NOT induce vomiting.

P405 - Store locked up.

P501 - Dispose of contents to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards

No additional Information available

SECTION 3: Composition/information on ingredients

3.1. Substances

 Name
 : Lemon Distilled Essential Oil

 CAS-No.
 : 84929-31 -7 / 8008-56-8

EC-No. : 284-515-8

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Name	Product identifier	%
Limonene	(CAS-No.) 5989-27-5 (EC-No.) 227-813-5	62 - 72
Beta-Pinene	(CAS-No.) 127-91-3 (EC-No.) 204-872-5	<= 16
gamma-Terpinene		<= 11
	(CAS-No.) 99-85-4 (EC-No.) 202-794-6	
Citral	(CAS-No.) 5392-40-5 (EC-No.) 226-394-6	<= 3,3
Alpha-Pinene	(CAS-No.) 80-56-8 / 7785-26-4 (EC-No.) 201-291-9	<= 3
Myrcene	(CAS-No.) 123-35-3 (EC-No.) 204-622-5	<= 3

Full text of H-statements: see section 16

3.2. Mixtures

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. If you feel unwell, seek medical

advice.

First-aid measures after skin contact : Wash skin with plenty of water. Take off contaminated clothing. If skin irritation occurs: Get

medical advice/attention.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing. If eye irritation persists: Get medical advice/attention. : Do not induce vomiting. Get medical advice/attention. Rinse mouth.

First-aid measures after ingestion : D

4.2. Most important symptoms and effects, both acute and delayedSymptoms/effects after skin contact
: Irritation. May cause an allergic skin reaction.

Symptoms/effects after ingestion : Risk of lung oedema.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Unsuitable extinguishing

: Dry powder. Foam. Carbon dioxide.

: Do not use a heavy water stream.

2019/02/25 (Version: 1.0) EN (English) 2/9

5.2. Special hazards arising from the substance or mixture Fire hazard : Flammable liqu

: Flammable liquid and vapour.

Hazardous decomposition products in case of fire : Toxic fumes may be released. Carbon dioxide. Carbon monoxide.

5.3. Advice for firefighters

Precautionary measures fire : Evacuate area. Eliminate all ignition sources if safe to do so. Stop leak if safe to do so.

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Protection during firefighting

: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

General measures

: Stop leak if safe to do so. Remove ignition sources. Evacuate area.

6.1.1. For non-emergency personnel

Protective equipment Emergency procedures

: Wear recommended personal protective equipment.

: Ventilate spillage area. No open flames, no sparks, and no smoking. Avoid contact with skin and

eyes.

6.1.2. For emergency responders

Protective equipment

: Do not attempt to take action without suitable protective equipment. For further information refer to

section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment. Prevent liquid from entering sewers, watercourses, underground or low areas.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up

: Store away from other materials. On land, sweep or shovel into suitable containers. Clean up any spills as soon as possible, using an absorbent material to collect it. Minimise generation of dust.

Other information

: Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

Precautions for safe handling

: Ensure good ventilation of the work station. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Wear personal protective equipment. Avoid context with skin and ower.

Hygiene measures

: Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures

: Ground/bond container and receiving equipment.

Storage conditions

: Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Storage temperature : 5 - 20 °C

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Beta-Pinene (127-91-3)		
Germany	TRGS 910 Acceptable concentration notes	
USA - ACGIH	ACGIH TWA (ppm)	20 ppm

Alpha-Pinene (80-56-8 / 7785-26-4)		
iermany TRGS 910 Acceptable concentration notes		
USA - ACGIH	ACGIH TWA (ppm)	20 ppm

8.2. Exposure controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

Personal protective equipment:

EN 374.

Hand protection:

Protective gloves

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Eye protection:

Safety glasses

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment





Personal protective equipment symbol(s):

Environmental exposure controls:

Avoid release to the environment.

Other information:

Do not eat, drink or smoke when using this product.

SECTION 9: Physical and chemical properties

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Physical state Liquid Colour Colourless. Odour characteristic. Odour threshold No data available pН No data available Relative evaporation rate (butylacetate=1) No data available Melting point Not applicable No data available Freezing point Boiling point 160 °C 48 °C Flash point 235 °C Auto-ignition temperature Decomposition temperature No data available

Decomposition temperature

No data available

Flammability (solid, gas)

Not applicable

Vapour pressure

Relative vapour density at 20 °C

No data available

Relative density = 0,85

Solubility Ethanol: soluble in alcohol

Log Pow No data available

Viscosity, kinematic

Viscosity, dynamic

Explosive properties

Oxidising properties

Explosive limits

W 1280000 mm2/s at 20 °C

1,09 mPa-s at 20 °C

No data available

No data available

No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Flammable liquid and vapour.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

10.5. Incompatible materials

No additional information available

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

10.6. Hazardous decomposition products

Carbon dioxide. Carbon monoxide.

	information

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Acute toxicity (oral) Notclassified Acute toxicity Notclassified (dermal) : Notclassified Acute toxicity (inhalation)

Lemon Distilled Essential Oil (84929-31-7 / 8008-56-8)	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	>10000

Limonene (5989-27-5)		
LD50 oral rat	4400 mg/kg	
LD50 dermal	> 2000 mg/kg	
LC50 inhalation rat (mg/l)	> 20 mg/l	

Beta-Pinene (127-91-3)	
LD50 dermal rat	= 4700 mg/kg

Alpha-Pinene (80-56-8 / 7785-26-4)

Myrcene (123-35-3)	
LD50 oral	> 2000 mg/kg
LD50 dermal	> 2000 mg/kg
LC50 inhalation rat (mg/l)	> 20 mg/l/4h

: Causes skin irritation.

: Not classified Serious eye damage/irritation

: May cause an allergic skin reaction. Respiratory or skin sensitisation

: Not classified Germ cell mutagenicity : Not classified Carcinogenicity

LD50 oral rat 3700 mg/kg

Reproductive toxicity : Not classified STOT-single exposure : Not classified STOT-repeated exposure : Not classified

: May be fatal if swallowed and enters airways. Aspiration hazard

Skin corrosion/irritation

Lemon Distilled Essential Oil (84929-31-7 / 8008-56-8)	
Viscosity, kinematic	« 1280000 mm2/s at 20 °C

12.1. Toxicity

Ecology - general : Toxic to aquatic life with long lasting effects. Before neutralisation, the product may

represent a danger to aquatic organisms.

Acute aquatic toxicity

Chronic aquatic toxicity : Toxic to aquatic life with long lasting effects.

Lemon Distilled Essential Oil (84929-31-7 / 8008-56-8)	
LC50 fish 1	5,65
EC50 Daphnia 1	1,1

EC50 72h algae (1) | 150 mg/l

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830		
Limonene (5989-27-5)		
LC50 fish 1	= 33 mg/l	
EC50 Daphnia 1	0,1 - 1 mg/l	
ErC50 (algae)	0,1 - 1 mg/l	
12.2. Persistence and degradability		
Limonene (5989-27-5)		
Persistence and degradability	Not established. May cause long-term adverse effects in the environment.	
Beta-Pinene (127-91-3)		
Persistence and degradability	Not established. May cause long-term adverse effects in the environment.	
gamma-Terpinene (99-85-4)		
Persistence and degradability	Not established.	
Citral (5392-40-5)		
Persistence and degradability	Not established.	
Alpha-Pinene (80-56-8 / 7785-26-4)		
Persistence and degradability	Not established. May cause long-term adverse effects in the environment.	
Myrcene (123-35-3)		
Persistence and degradability	Not established. May cause long-term adverse effects in the environment.	
12.3. Bioaccumulative potential		
Limonene (5989-27-5)		
Bioaccumulative potential	Not established.	
Beta-Pinene (127-91-3)		
Bioaccumulative potential	Not established.	
gamma-Terpinene (99-85-4)		
Bioaccumulative potential	Not established.	
Citral (5392-40-5)		
Bioaccumulative potential	Not established.	
Alpha-Pinene (80-56-8 / 7785-26-4)		
Bioaccumulative potential	Not established.	
Myrcene (123-35-3)		
Log Pow	5,29	
Bioaccumulative potential	Not established.	

12.4. Mobility in soil
No additional Information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

No additional information available

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

13.1. Waste treatment methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

Must follow special treatment according to local regulation.

Additional information : Flammable vapours may accumulate in the container.

SECTION 14: Transpor						
In accordance with ADR / RID / IMDG / IATA / ADN						
ADR	IMDG	IATA	ADN	RID		
14.1. UN number						
UN 1169	UN 1169	UN 1169	UN 1169	UN 1169		
14.2. UN proper shippin	ig name					
EXTRACTS, AROMATIC, LIQUID	EXTRACTS, AROMATIC, LIQUID	Extracts, aromatic, liquid	EXTRACTS, AROMATIC, LIQUID	EXTRACTS, AROMATIC, LIQUID		
Transport document descrip	otion					
UN 1169 EXTRACTS, AROMATIC, LIQUID, 3, III (D/E), ENVIRONMENTALL HAZARDOUS		UN 1169 Extracts, aromatic, liquid, 3, III, ENVIRONMENTALLY HAZARDOUS	UN 1169 EXTRACTS, AROMATIC, LIQUID, 3, III, ENVIRONMENTALLY HAZARDOUS	UN 1169 EXTRACTS, AROMATIC, LIQUID, 3, III, ENVIRONMENTALLY HAZARDOUS		
14.3. Transport hazard class(es)						
3	3	3	3	3		
\3/ \/	\3/ \/	\3/ /	\3/ /	\3/		
14.4. Packing group						
III	III	III	III	III		
14.5. Environmental hazards						
Dangerous for the environmen Yes	tt: Dangerous for the environment: Yes Marine pollutant: Yes	· Yes	Dangerous for the environment : Yes	Dangerous for the environment Yes		

No supplementary information available 14.6. Special precautions for user

Overland transport

Classification code (ADR) : F1 Special provisions (ADR) : 601 Limited quantities (ADR) : 51 :E1 Excepted quantities (ADR)

: P001, IBC03, LP01, R001 Packing instructions (ADR)

Mixed packing provisions (ADR) : MP19 Portable tank and bulk container instructions : T2

(ADR)

Portable tank and bulk container special provisions : TP1

(ADR)

Tank code (ADR) : LGBF Vehicle for tank carriage :FL Transport category (ADR) :3 Special provisions for carriage - Packages (ADR) : V12 Special provisions for carriage - Operation (ADR) : S2 Hazard identification number (Kemler No.) : 30 Orange plates



Safety Data Sheet

according to Pagulation (EC) No.	1907/2006 (PEACH) with its amendment Pegulation (FII) 2015/830

Tunnel restriction code (ADR)	D/E
EAC code	3YE

Transport by sea

Special provisions (IMDG)

Limited quantities (IMDG)

Excepted quantities (IMDG)

Excepted quantities (IMDG)

Excepted quantities (IMDG)

Excepted quantities (IMDG)

Packing instructions (IMDG)
IBC packing instructions (IMDG)
Tank instructions (IMDG)
Tank special provisions (IMDG)
EmS-No. (Fire)
EmS-No. (Spillage)
Stowage category (IMDG)
P001, LP01
IBC03
T72
T72
TP1
F-E
EmS-No. (Spillage)
S-D
Stowage category (IMDG)

Properties and observations (IMDG) Usually consist of alcoholic solutions. Miscibility with water depends upon the composition.

Air transport

Ε1 PCA Excepted quantities (IATA) Y344 PCA Limited quantities (IATA) 10L PCA limited quantity max net quantity (IATA) 355 PCA packing instructions (IATA) 60L PCA max net quantity (IATA) 366 CAO packing instructions (IATA) CAO max net quantity (IATA) 220L Special provisions (IATA) Α3 3L ERG code (IATA)

Inland waterway transport

Rail transport

Classification code (RID) F1
Special provisions (RID) 601
Excepted quantities (RID) E1

Packing instructions (RID) P001, IBC03, LP01, R001

Mixed packing provisions (RID)

Portable tank and bulk container instructions (RID)

T2

Portable tank and bulk container special provisions

TP1

(RID)

Tank codes for RID tanks (RID)

Transport category (RID)

Special provisions for carriage - Packages (RID)

Colis express (express parcels) (RID)

Hazard identification number (RID)

LGBF

W12

CE4

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1.1. EU-Regulations

No REACH Annex XVII restrictions

Lemon Distilled Essential Oil is not on the REACH Candidate List

Lemon Distilled Essential Oil is not on the REACH Annex XIV List

Lemon Distilled Essential Oil is not subject to REGULATION (EU) No 649/2012 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 4 July 2012 concerning the export and import of hazardous chemicals.

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Lemon Distilled Essential Oil is not subject to Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC

15.1.2. National regulations

No additional information available

Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Full text of H- and EUH-sta	tements:
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
Asp. Tox. 1	Aspiration hazard, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
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.

SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product