

Safety Data Sheet

according to Regulation (EU) 2015/830 Issue date: 10/25/2019 Revision date: 3/18/2024 Supersedes version of: 12/6/2023 Version: 1.8

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

1.1. Product identifier

Product form	: Substance (UVCB)
Product name	: LEMON ARGENTINA OIL
EC-No.	: 284-515-8
CAS-No.	: 8008-56-8
Product code	: 50-6160-15
Product group	: Trade product

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

1.2.1. Relevant identified uses

No additional information available

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

The Lebermuth Company 4004 Technology Drive 46628 South Bend, IN United States T 574-259-7000 - F 574-258-7450 info@lebermuth.com - www.lebermuth.com

1.4. Emergency telephone number

Emergency number

: CHEMTREC - USA: 800-424-9300 International: +1 703-527-3887 / 1-800-424-9300 CCN 13010

SECTION 2: Hazards identification

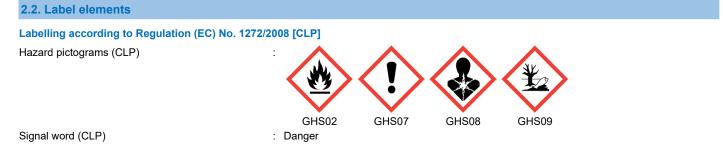
2.1. Classification of the substance or mixture

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
Reproductive toxicity, Category 2	H361
Aspiration hazard, Category 1	H304
Hazardous to the aquatic environment – Chronic Hazard, Category 2	H411
Full text of H- and EUH-statements: see section 16	

Adverse physicochemical, human health and environmental effects

Flammable liquid and vapour. Suspected of damaging fertility or the unborn child. 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.



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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. H361 - Suspected of damaging fertility or the unborn child. H411 - Toxic to aquatic life with long lasting effects.
Precautionary statements (CLP)	 P201 - Obtain special instructions before use. P202 - Do not handle until all safety precautions have been read and understood. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P233 - Keep container tightly closed. P240 - Ground and bond container and receiving equipment. P241 - Use explosion-proof electrical/ventilating/lighting equipment. P261 - Avoid breathing dust/fume/gas/mist/vapours/spray. P264 - Wash hands, forearms and face 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/protective clothing/eye protection/face protection/hearing protection. P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor. P302+P352 - IF ON SKIN: Wash with plenty of water. P303+P313 - IF SWALLOWED: Immediately call a Avoice/attention. P303+P313 - IF Exposed or concerned: Get medical advice/attention. P331 - Do NOT induce vomiting. P332+P313 - IF skin irritation occurs: Get medical advice/attention. P332+P313 - If skin irritation occurs: Get medical advice/attention. P332+P313 - If skin irritation occurs: Get medical advice/attention. P332+P313 - If skin irritation occurs: Get medical advice/attention. P332+P313 - If skin irritation occurs: Get medical advice/attention. P332+P313 - If skin irritation or rash occurs: Get medical advice/attention. P30+P313 - If skin irritation occurs: Get medical advice/attention. P332+P313 - If skin irritation or rash occurs: Get medical advice/attention. P332+P313 - If skin irritation or rash occurs: Get medical advice/attention. P332+P313 - Store in a well-ventilated place. Keep cool. P405 - Store locked up. P501 - Dispose of contents/container to hazardous

2.3. Other hazards

No additional information available

SECTION 3: Composition	/information on ingredients		
3.1. Substances			
Substance type Custom name CAS-No. EC-No.	: UVCB : LEMON OIL : 8008-56-8 : 284-515-8		
Name	Product identifier	%	
LEMON OIL	CAS-No.: 8008-56-8 EC-No.: 284-515-8	100	

3.2. Mixtures

Not applicable

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SECTION 4: First aid measures

4.1. Description of first aid measures	
First-aid measures general	: Call a physician immediately.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact	: Rinse skin with water/shower. Take off immediately all contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact	: Rinse eyes with water as a precaution.
First-aid measures after ingestion	: Do not induce vomiting. Call a physician immediately.
4.2. Most important symptoms and effect	ts, both acute and delayed
Symptoms/effects after skin contact Symptoms/effects after ingestion	: Irritation. May cause an allergic skin reaction. : 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	: Water spray. Dry powder. Foam. Carbon dioxide.	
5.2. Special hazards arising from the substance or mixture		
Fire hazard Hazardous decomposition products in case of fire	Flammable liquid and vapour.Toxic fumes may be released.	
5.3. Advice for firefighters		
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		
6.1. Personal precautions, protections	ve equipment and emergency procedures	
6.1.1. For non-emergency personnel		
Emergency procedures	: Ventilate spillage area. No open flames, no sparks, and no smoking. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray.	
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.

6.3. Methods and material for contain	ment and cleaning up
For containment	: Collect spillage.
Methods for cleaning up	 Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.
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.

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SECTION 7: Handling and stor	
7.1. Precautions for safe handling	
Precautions for safe handling Hygiene measures	 Ensure good ventilation of the work station. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapours may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray. 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, in	ncluding any incompatibilities
Technical measures Storage conditions	Ground/bond container and receiving equipment.Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up.
7.3. Specific end use(s)	
No additional information available	
SECTION 8: Exposure controls	/personal protection
8.1. Control parameters	
8.1.1 National occupational exposure a	and biological limit values

No additional information available

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

LEMON OIL (8008-56-8)		
DNEL/DMEL (Workers)		
Long-term - systemic effects, dermal	6.67 mg/kg bodyweight/day	
Long-term - systemic effects, inhalation	23.3 mg/m ³	
DNEL/DMEL (General population)		
Long-term - systemic effects,oral	3.33 mg/kg bodyweight/day	
Long-term - systemic effects, inhalation	5.8 mg/m ³	
Long-term - systemic effects, dermal	3.33 mg/kg bodyweight/day	
PNEC (Water)		
PNEC aqua (freshwater)	5.4 μg/l	
PNEC aqua (marine water)	0.54 µg/l	
PNEC aqua (intermittent, freshwater)	5.77 µg/l	
PNEC (Sediment)		
PNEC sediment (freshwater)	1.3 mg/kg dwt	
PNEC sediment (marine water)	0.13 mg/kg dwt	

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LEMON OIL (8008-56-8)		
PNEC (Soil)		
PNEC soil	0.29 mg/kg dwt	
PNEC (STP)		
PNEC sewage treatment plant	2.1 mg/l	

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

8.2.2. Personal protection equipment

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection: Safety glasses

8.2.2.2. Skin protection

Skin and body protection: Wear suitable protective clothing

Hand protection: Protective gloves

8.2.2.3. Respiratory protection

Respiratory protection:

[In case of inadequate ventilation] wear respiratory protection.

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical 9.1. Information on basic physical and c	
Physical state	: Liquid
Colour	: No data available
Odour	: No data available
Odour threshold	: No data available
рН	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: 160 °C Atm. press.: 1016 hPa Remarks on result: 'other:'
Flash point	: 43 °C
Auto-ignition temperature	: No data available

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Decomposition temperature	: No data available
Flammability (solid, gas)	: Not applicable
Vapour pressure	: 218.8 Pa Temp.: 25 °C Remarks on result: 'other:'
Relative vapour density at 20°C	: No data available
Relative density	: 0.854 (0.84 – 0.859)
Density	: 0.8512 g/cm³ Type: 'density' Temp.: 20 °C Remarks on result: 'other:'
Solubility	: Insoluble.
Partition coefficient n-octanol/water (Log Pow)	: No data available
Viscosity, kinematic	: 1.28 mm²/s Temp.: '20°C' Parameter: 'kinematic viscosity (in mm²/s)' Remarks on result: 'other:'
Viscosity, dynamic	: 1.09 mPa·s Temp.: '20°C' Parameter: 'dynamic viscosity (in mPa s)' Remarks on result: 'other:'
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available
9.2. Other information	
9.2. Other information	

Refractive index

: 1.474 (1.47 – 1.478)

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. No flames, no sparks. Eliminate all sources of ignition.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological informati	on	
11.1 Information on toxicological effects		
Acute toxicity (oral) Acute toxicity (dermal) Acute toxicity (inhalation)	:	Not classified Not classified Not classified
LEMON OIL (8008-56-8)		
LD50 oral rat		> 5000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity), Remarks on results: other:
LD50 dermal rabbit		> 10000 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Remarks on results: other:
Skin corrosion/irritation	:	Causes skin irritation.
Serious eye damage/irritation	:	Not classified
Respiratory or skin sensitisation	:	May cause an allergic skin reaction.
Germ cell mutagenicity	:	Not classified

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Carcinogenicity :	Not classified
Reproductive toxicity :	Suspected of damaging fertility or the unborn child.
STOT-single exposure :	Not classified
STOT-repeated exposure :	Not classified
Aspiration hazard :	May be fatal if swallowed and enters airways.
LEMON OIL (8008-56-8)	
Viscosity, kinematic	1.28 mm²/s Temp.: '20°C' Parameter: 'kinematic viscosity (in mm²/s)' Remarks on result: 'other:'

SECTION 12: Ecological information

12.1. Toxicity	
Hazardous to the aquatic environment, short-term : No (acute)	oxic to aquatic life with long lasting effects. ot classified oxic to aquatic life with long lasting effects.
12.2. Persistence and degradability	
No additional information available	
12.3. Bioaccumulative potential	
No additional information available	
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	

SECTION 13: Disposal considerations	
13.1. Waste treatment methods	
Waste treatment methods Additional information	Dispose of contents/container in accordance with licensed collector's sorting instructions.Flammable vapours may accumulate in the container.

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

14.1 UN number	
UN-No. (ADR) UN-No. (IMDG) UN-No. (IATA) UN-No. (ADN) UN-No. (RID)	: UN 1197 : UN 1197 : UN 1197 : UN 1197 : UN 1197 : UN 1197
14.2. UN proper shipping name	
Proper Shipping Name (ADR) Proper Shipping Name (IMDG) Proper Shipping Name (IATA)	 EXTRACTS, LIQUID EXTRACTS, LIQUID Extracts, liquid

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Proper Shipping Name (ADN)	: EXTRACTS, LIQUID
Proper Shipping Name (RID)	: EXTRACTS, LIQUID
Transport document description (ADR)	: UN 1197 EXTRACTS, LIQUID, 3, III, (D/E), ENVIRONMENTALLY HAZARDOUS
Transport document description (IMDG)	: UN 1197 EXTRACTS, LIQUID, 3, III, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS
Transport document description (IATA)	: UN 1197 Extracts, liquid, 3, III, ENVIRONMENTALLY HAZARDOUS
Transport document description (ADN)	: UN 1197 EXTRACTS, LIQUID, 3, III, ENVIRONMENTALLY HAZARDOUS
Transport document description (RID)	: UN 1197 EXTRACTS, LIQUID, 3, III, ENVIRONMENTALLY HAZARDOUS
14.3. Transport hazard class(es)	

ADR

IMDG

Transport hazard class(es) (ADR) Danger labels (ADR)



: 3 : 3

: 3 : 3

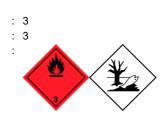
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Transport hazard class(es) (IMDG)

Danger labels (IMDG)



ADN	
-	

RID

Transport hazard class(es) (ADN) Danger labels (ADN)





14.4. Packing group

Danger labels (RID)

Packing group (ADR)	
Packing group (IMDG)	
Packing group (IATA)	
Packing group (ADN)	
Packing group (RID)	

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14.5. Environmental hazards	
Dangerous for the environment	: Yes
Marine pollutant	: Yes
Other information	: No supplementary information available
14.6. Special precautions for user	
Overland transport	
Classification code (ADR)	: F1
Special provisions (ADR)	: 601
Limited quantities (ADR)	: 51
Excepted quantities (ADR)	: E1
Packing instructions (ADR)	: P001, IBC03, LP01, R001
Mixed packing provisions (ADR) Portable tank and bulk container instructions (ADR)	: MP19
	: T2 : TP1
(ADR)	. 171
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	<u>30</u> 1197
Tunnel restriction code (ADR)	: D/E
EAC code	: 3Y
Transport by sea	
Special provisions (IMDG)	: 223, 955
_imited quantities (IMDG)	: 5L
Excepted quantities (IMDG)	: E1
Packing instructions (IMDG)	: P001, LP01
BC packing instructions (IMDG)	: IBC03
Tank instructions (IMDG)	: T2
Tank special provisions (IMDG)	: TP1 : F-E
EmS-No. (Fire)	: F-E : S-D
EmS-No. (Spillage) Stowage category (IMDG)	: S-D : A
Properties and observations (IMDG)	 A Usually consist of alcoholic solutions. Miscibility with water depends upon the composition
Air transport	
PCA Excepted quantities (IATA)	: E1
PCA Limited quantities (IATA)	: Y344
PCA limited quantity max net quantity (IATA)	: 10L
PCA packing instructions (IATA)	: 355
PCA max net quantity (IATA)	: 60L
CAO packing instructions (IATA)	: 366 : 220L
CAO max net quantity (IATA) Special provisions (IATA)	: 220L : A3
ERG code (IATA)	: 3L
nland waterway transport	
Classification code (ADN)	: F1
Special provisions (ADN)	: 601
	: 5L
Limited quantities (ADN) Excepted quantities (ADN)	
Limited quantities (ADN) Excepted quantities (ADN) Equipment required (ADN)	: E1 : PP, EX, A

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			_
Number of blue cones/lights (ADN)	:	0	
Rail transport			
Classification code (RID)	:	F1	
Special provisions (RID)	:	601	
Limited quantities (RID)	:	5L	
Excepted quantities (RID)	:	E1	
Packing instructions (RID)	:	P001, IBC03, LP01, R001	
Mixed packing provisions (RID)	:	MP19	
Portable tank and bulk container instructions (RID)	:	T2	
Portable tank and bulk container special provisions	:	TP1	
(RID)			
Tank codes for RID tanks (RID)	:	LGBF	
Transport category (RID)	:	3	
Special provisions for carriage – Packages (RID)	:	W12	
Colis express (express parcels) (RID)	:	CE4	
Hazard identification number (RID)	:	30	

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

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

EU restriction list (REACH Annex XVII)		
Reference code	Applicable on	
3(a)	LEMON OIL	
3(b)	LEMON OIL	
3(c)	LEMON OIL	
40.	LEMON OIL	

Not listed on the REACH Candidate List

Not listed on REACH Annex XIV (Authorisation List)

Not listed on the PIC list (Regulation EU 649/2012)

Not listed on the POP list (Regulation EU 2019/1021)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

15.1.2. National regulations

Germany

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active Listed on the Canadian DSL (Domestic Substances List)

Water hazard class (WGK)	: WGK 3, Highly hazardous to water (Classification according to AwSV; ID No. 2884)
Hazardous Incident Ordinance (12. BImSchV)	: Is not subject to the Hazardous Incident Ordinance (12. BImSchV)
Netherlands	
SZW-lijst van kankerverwekkende stoffen	: LEMON ARGENTINA OIL is listed
SZW-lijst van mutagene stoffen	: LEMON ARGENTINA OIL is listed
SZW-lijst van reprotoxische stoffen – Borstvoeding	: The substance is not listed
SZW-lijst van reprotoxische stoffen –	: The substance is not listed
Vruchtbaarheid	
SZW-lijst van reprotoxische stoffen – Ontwikkeling	: The substance is not listed
Denmark	
Class for fire hazard	: Class II-1
Store unit	: 5 liter
Classification remarks	: R10 <h226;h304;h315;h317;h361;h411>; Emergency management guidelines for the storage of flammable liquids must be followed</h226;h304;h315;h317;h361;h411>

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Danish National Regulations	: Young people below the age of 18 years are not allowed to use the product Pregnant/breastfeeding women working with the product must not be in direct contact with the product
Switzerland Storage class (LK)	: LK 3 - Flammable liquids
15.2. Chemical safety assessment	

No chemical safety assessment has been carried out

SECTION 16: Other information

Abbreviations and 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	
BCF	Bioconcentration factor	
BLV	Biological limit value	
BOD	Biochemical oxygen demand (BOD)	
COD	Chemical oxygen demand (COD)	
DMEL	Derived Minimal Effect level	
DNEL	Derived-No Effect Level	
EC-No.	European Community number	
EC50	Median effective concentration	
EN	European Standard	
IARC	International Agency for Research on Cancer	
ΙΑΤΑ	International Air Transport Association	
IMDG	International Maritime Dangerous Goods	
LC50	Median lethal concentration	
LD50	Median lethal dose	
LOAEL	Lowest Observed Adverse Effect Level	
NOAEC	No-Observed Adverse Effect Concentration	
NOAEL	No-Observed Adverse Effect Level	
NOEC	No-Observed Effect Concentration	
OECD	Organisation for Economic Co-operation and Development	
OEL	Occupational Exposure Limit	
РВТ	Persistent Bioaccumulative Toxic	
PNEC	Predicted No-Effect Concentration	
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail	
SDS	Safety Data Sheet	
STP	Sewage treatment plant	
ThOD	Theoretical oxygen demand (ThOD)	
TLM	Median Tolerance Limit	
VOC	Volatile Organic Compounds	

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Abbreviations and acronyms:	
CAS-No.	Chemical Abstract Service number
N.O.S.	Not Otherwise Specified
vPvB	Very Persistent and Very Bioaccumulative
ED	Endocrine disrupting properties

Full text of H- and EUH-statements:		
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2	
Asp. Tox. 1	Aspiration hazard, Category 1	
Flam. Liq. 3	Flammable liquids, Category 3	
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.	
H361	Suspected of damaging fertility or the unborn child.	
H411	Toxic to aquatic life with long lasting effects.	
Repr. 2	Reproductive toxicity, Category 2	
Skin Irrit. 2	Skin corrosion/irritation, Category 2	
Skin Sens. 1	Skin sensitisation, Category 1	

Safety Data Sheet (SDS), EU

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.