




Safety Data Sheet

1. Identification	
Product Name:	Lemon Essential Oil
Botanical/INCI:	<i>Citrus limonum</i>
Synonyms:	n/a
CAS Number:	84929-31-7
Product Uses:	Personal care, Aromatherapy
Manufacturer/Supplier:	Amrita Aromatherapy, Inc. [®]
Address:	1900 W. Stone Ave., Suite C Fairfield, IA 52556
Phone:	1(800)410-9651 or 1(641)472-9136
Fax:	1(641)472-8672
Emergency Contact:	Poison Control: 1(800)222-1222
2. Hazard(s) Identification	
Appearance:	Liquid
Signal Word:	Danger
Statement of Hazard:	H226 Flammable liquid and vapor H304 May be fatal if swallowed and enters airways H315 Causes skin irritation H317 May cause an allergic skin reaction H410 Very toxic to aquatic life with long lasting effects
Precautionary Statements:	P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking. P233 Keep container tightly closed. P243 Take precautionary measures against static discharge. P261 Avoid breathing dust/fume/gas/mist/vapors/spray. P280 Wear protective gloves/protective clothing/eye protection/face protection. P301+P310+P331 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting. P302+P352 IF ON SKIN: Wash with plenty of soap and water. P333+P313 If skin irritation or rash occurs: Get medical advice/attention. P370+P378 In case of fire: Use Foam, Dry chemical, Carbon Dioxide, B class Extinguishers for extinction. P391 Collect spillage P403+P235 Store in a well-ventilated place. Keep cool. P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
Aspiration Toxicity:	Category 1
Skin Irritation:	Category 2
Skin Sensitization:	Category 1
Acute Aquatic Toxicity:	Category 1
Chronic Aquatic Toxicity:	Category 1
Flammable Liquids:	Category 3
Classification according to EU Directives 67/548/EEC or 1999/45/EC. For the full text of the R-phrases mentioned in this Section, see Section 16.	

Hazards	
Symbol(s) Writing	Pictogram(s)
<ul style="list-style-type: none"> Flammable liquid and vapor 	
<ul style="list-style-type: none"> May be fatal if swallowed and enters airways Causes skin irritation May cause an allergic skin reaction 	
<ul style="list-style-type: none"> Very toxic to aquatic life with long lasting effects 	

3. Composition / Information on Ingredients

Ingredients List: 100% Lemon Essential Oil

Component	CAS Number	Weight %	Classification 1272 / 2008	REACH Number
d-Limonene	5989-27-5	<=68%	FL3, AspT1, SI2, SS1, AA1, AC1	227-813-5
Beta Pinene	127-91-3	<=12%	FL3, AspT1, SI2, SS1, AA1, AC1	242-060-2
Gamma Terpinene	99-85-4	<=9%	FL3, AspT1	202-794-6
Sabinene	3387-41-5	<=1%	FL3, AspT1, SI2, EI2, STOT SE 3	222-212-4
Alpha Pinene	80-56-8	<=1%	FI3, AspT1, SI2, SS1, ED1, EI2, AA1, AC1	201-291-9
Myrcene	123-35-3	<=1%	FL3, AspT1, SI2, EI2, AC3	204-622-5
Geranial	5392-40-5	<=1%	SI2, SS1	205-476-5


(See Section 8 for Exposure Limits)

4. First Aid Measures

General Advice:	Seek medical attention in case of any discomfort. Observe risk of aspiration if vomiting occurs. May cause lung damage if swallowed.
Eye Contact:	Remove contact lenses. Flush repeatedly with water for 15 minutes; contact physician
Skin Contact:	Remove contaminated clothing, wash with water and soap. Contact physician if redness or irritation develop.
Ingestion:	Do NOT induce vomiting. Rinse out mouth. Do NOT give water or milk unless directed by medical professional. Contact POISON CENTER or doctor immediately.
Inhalation:	Remove to fresh air and contact a physician if symptoms such as wheezing, coughing, shortness of breath, or burning in the mouth, throat, or chest occur.

5. Fire Fighting Measures	
Extinguishing Media:	SUITABLE: Foam, Dry chemical, Carbon Dioxide, B class Extinguishers NON-SUITABLE: Water Jet
Hazardous Combustion Products:	Carbon Dioxide and Carbon Monoxide
Fire Fighting Procedures:	When possible, prevent environmental run-off. Use self-contained breathing apparatus and protective clothing.
Fire / Explosion Hazards:	Carbon monoxide, carbon dioxide, acrid fumes, smoke, or flammable vapor may be released during oil fires. Flammable liquid and vapor. Vapors are heavier than air and may travel along surfaces to remote ignition sources and flash back.
6. Accidental Release Measures	
Health and Safety Precautions:	Personnel involved in cleanup should wear appropriate personal protective equipment (see Section 8). Minimize exposure. Eliminate all sources of ignition and ventilate area using explosion-proof equipment.
Measures for Cleaning and Collecting:	Absorb spill with non-combustible matter (such as detergent--do not use solvents) and transfer to containers. Clean spill area thoroughly.
Measures for Environmental Protections:	Do NOT allow to enter the sewer or outdoor environment. Place waste in an appropriately labeled, sealed container for disposal. Care should be taken to avoid environmental release.
Additional Considerations for Large Spills:	Contain and control the leaks or spills with non-combustible absorbent materials such as sand, earth, vermiculite, or diatomaceous earth in drums for waste disposal. Avoid allowing product to reach sewage system or any waterways. Inform respective authorities in case of seepage into sewage system or waterways.
7. Handling and Storage	
General Handling:	Avoid contact with eyes, skin, mucous and clothing. Wear required PPE. Observe good hygiene guidelines and general safety practices. Do NOT eat, drink, or smoke when handling. Ensure workspace is properly ventilated. Wash hands after handling.
Storage Conditions:	Store in tightly sealed glass container, away from heat, light, and other sources of ignition; in a well-ventilated, dry, and cool location. Keep away from strong oxidizing agents.
8. Exposure Controls / Personal Protection	
Exposure Limit:	This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region-specific regulatory bodies.
Engineering Controls:	Extraction or global ventilation. Equipment should be grounded. Provide eyewash station.
Environmental Exposure Controls:	Avoid discharging into sewer or environment. Do NOT eat, drink, or smoke near or after handling product.
Personal Protective Equipment (PPE):	Work clothing worn by personnel shall be laundered regularly. After contact with the product, all parts of the body that have been soiled must be washed
Hands:	Wear suitable protective gloves (resistant to chemical agents in accordance with standard EN374) in the event of prolonged or repeated skin contact.
Eyes:	Avoid contact with eyes. Use eye protectors (safety goggles in accordance with standard EN166) designed to protect against liquid splashes.
Skin:	Use protective clothing as necessary, such as a lab coat.
Respiratory Protection:	Assure a well-ventilated work area – Use general face covering

9. Physical and Chemical Properties	
Physical State:	Liquid
Liquid Color:	Pale yellow
Odor:	Fresh, citrus aroma
Molecular Weight:	No information
Water Solubility:	Not soluble
Boiling Point (°C):	No information
Vapor Pressure (kPa):	No information
Vapor Density (g/mL):	No information
Flash Point – Liquid (°C):	48°C
Upper Explosive Limits:	No information
Lower Explosive Limits:	No information
Polymerization:	Will not occur
Specific Gravity 25°C:	No information
Specific Gravity 20°C:	0.8520
Refractive Index 20°C:	1.4730
10. Stability and Reactivity	
Chemical Stability:	Stable under normal conditions of use.
Conditions to Avoid:	Keep away from heat, spark, flames, and all other sources of ignition
Incompatible Materials:	Strong oxidizing agents and strong inorganic acids
11. Toxicological Information	
General Information:	Product does not present an acute toxicity hazard based on known or supplied information.
Acute Toxicity:	Not Determined
Irritation / Sensitization:	Not Determined
Skin Absorption:	No adverse effects with normal skin. However, potentially harmful amounts of material may be absorbed across markedly abraded skin when contact is sustained.
Carcinogen Status:	Carcinogenicity of the mixture has not been determined. Not listed as carcinogens by IARC, US OSHA or NTP.
12. Ecological Information	
Environmental Overview:	The environmental characteristics of this mixture have not been fully evaluated. Releases to the environment should be avoided.
Eco-toxicity Effects:	Very toxic to aquatic organisms; may cause long-term adverse effects in the aquatic environment.
Persistence and Degradability:	Biodegradation is expected
Bio-accumulative Potential:	Bioaccumulation is unlikely
Mobility in Soil:	Not Determined
Other Adverse Effects:	Avoid exposure to marine environments and waterways
13. Disposal Considerations	
Waste Treatment Methods:	Releases to the environment should be avoided. Review and implement appropriate technical and procedural wastewater and waste disposal measures to prevent occupational exposure or environmental releases. Waste from a spill: Contain the source of spill if it is safe to do so. Collect spill with absorbent material. Place waste in an appropriately labeled, sealed container for disposal. Clean spill area thoroughly. Care should be taken to avoid environmental release.

14. Transport Information	
<i>The following refers to all modes of transportation unless specified below. This material is regulated for transport under DOT, ADR, IMDG, and IATA regulations.</i>	
UN Number:	1169
UN Proper Shipping Name:	Extracts, aromatic, liquid
Transport Hazard Class(es):	Flammable Class 3
Packing Group:	III
Flash Point (°C):	48°C
Marine Pollutant:	Yes
15. Regulatory Information	
EU Symbol:	
EU Indication of Danger:	F – Flammable X – Hazard N – Hazard to Environment
EU Risk Phrases:	R10 – Flammable. R26 – Very toxic by inhalation. R38 – Irritating to skin. R43 – May cause sensitization by skin contact. R 50/53 – Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
EU Safety Phrases:	S 1 – Keep locked up S 3 – Keep in a cool place S 7 – Keep container tightly closed S 9 – Keep container in a well-ventilated place S 16 – Keep away from sources of ignition – No smoking S 23 – Do not breathe gas/fumes/vapor/spray S 27/28 – After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of soap and water S 29/56 – Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point. S 33 – Take precautionary measures against static discharges. S 36/37/39 – Wear suitable protective clothing, gloves, and eye/face protection. S 43 – In case of fire use: Foam, Dry chemical, Carbon Dioxide, B class Extinguishers for extinction. S 45 – In case of accident or if you feel unwell seek medical advice immediately (show the label where possible) S 46 – If swallowed, seek medical advice immediately and show this container or label S 57 – Use appropriate containment to avoid environmental contamination S 61 – Avoid release to the environment. Refer to special instructions/safety data sheet
OSHA Label:	Danger
Identifying Markings in Accordance with EC Directives / GefStoffV:	No duty to mark/Exempt
California Proposition 65:	Not listed
United States TSCA:	Complies
Australia (AICS):	Not present

EU EINECS/ELINCS List:		Complies		
16. Other Information				
Section 2 Expanded Precautionary Statements		P240 Ground/bond container and receiving equipment. P241 Use explosion-proof electrical/ventilating/lighting/.../equipment. P242 Use only non-sparking tools. P264 Wash hands thoroughly after handling. P272 Contaminated work clothing should not be allowed out of the workplace. P273 Avoid release to the environment. P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.		
Section 3 Expanded Classification 1272 / 2008		d-Limonene – Flammable Liquid 3, Aspiration Toxicity 1, Skin Irritant 2, Skin Sensitizer 1, Aquatic Acute 1, Aquatic Chronic 1 Beta Pinene – Flammable Liquid 3, Aspiration Toxicity 1, Skin Irritant 2, Skin Sensitizer 1, Aquatic Acute 1, Aquatic Chronic 1 Gamma Terpinene – Flammable Liquid 3, Aspiration Toxicity 1 Sabinene – Flammable Liquid 3, Aspiration Toxicity 1, Skin Irritant 2, Eye Irritant 2, STOT SE 3 (Specific Target Organ Toxicity – Single Exposure – Respiratory) Alpha Pinene – Flammable Liquid 3, Aspiration Toxicity 1, Skin Irritant 2, Skin Sensitizer 1, Eye Damage 1, Eye Irritant 2, Aquatic Acute 1, Aquatic Chronic 1 Myrcene – Flammable Liquid 3, Aspiration toxicity 1, Skin Irritant 2, Eye Irritant 2, Aquatic Chronic 3 Geranial – Skin Irritant 2, Skin Sensitizer 1		
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Revision Tracking				
Revision	Date	Reason	Author	Reviewed by
V1.0	2/6/2023	Creation	AG	SS