



LIBERTY NATURAL PRODUCTS, INC.

*The Source for the Finest
Pure and Natural Botanical Oils and Extracts*

libertynatural.com

Section 1. Product and Company Identification

Product Name:	Lime
Product Code:	47
Description:	Essential Oil of Lime
Product Use:	Industrial
Manufacturer:	Liberty Natural Products, 20949 S Harris Rd, Oregon City, OR 97045 (800) 289-8427
Emergency Phone:	USA, Canada, Mexico: 1-800-535-5053 International: 1-352-323-3500

Section 2. Hazards Identification

Category:	H226 Flammable liquid and vapor.
Signal Word:	Danger
Ingestion:	H304: May be fatal if swallowed and enters airways
Health Risks:	N/A
Eye Contact:	N/A
Skin Contact:	H315 Causes skin irritation. H317: May cause an allergic skin reaction.
Environmental:	N/A
Pictograms:	



Precautionary Statement:

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P241 Use explosion-proof electrical/ventilation/lighting/equipment.
P301+P310 If swallowed: Immediately call a poison center/ doctor.
P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing.
Rinse skin with water/shower.
P321 Specific treatment.
P331 Do NOT induce vomiting.
P362+P364: Take off contaminated clothing and wash it before reuse.
P405 Store locked up.
P501 Dispose of content/container in accordance with local/ regional/ national/ international regulations.
P501 Dispose of contents/container to an approved waste disposal plant.

Section 3. Composition and Information on Ingredients

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Chemical Name:	<i>Citrus aurantifolia</i>
Physical State:	Liquid.
CAS #:	8008-26-2
Impurities:	None.
Trade Secret Claim:	None.

Section 4. First Aid Measures

Eyes:	Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
Skin Contact:	If skin irritation continues, consult a doctor. Immediately wash with water and soap and rinse thoroughly.
Inhalation:	Supply fresh air and to be sure call for a doctor. In case of unconsciousness place patient stably in side position for transportation.
Ingestion in excess:	Drink copious amounts of water and provide fresh air. Call a doctor.
Emergency Care:	Contact local emergency provider. For non-emergency, contact primary care provider.
PPE:	Gloves, lab coat or uniform, safety glasses, eyewash, safety shower.

Section 5. Fire-Fighting Measures

Flammability:	Flammable.
Extinguishing Media:	SUITABLE: CO ₂ , sand, extinguishing powder or water spray. NON SUITABLE: Water with full jet.
Special Fire-Fighting Procedure:	None.
Unusual Fire and Explosion Hazards:	Essential and vegetable oils have the potential to self-heat and contribute to spontaneous combustion when present on fabrics. Caution should be exercised in the storage and launder of fabrics exposed to oils.
PPE and Precautions for Firefighters:	Firemen must wear self-contained breathing apparatus.

Section 6. Accidental Release Measures

Personal Precautions:	Protective equipment and emergency procedures. Wear protective equipment. Keep unprotected persons away. Keep away from ignition sources.
Environmental Precautions:	Do not dispose in sewer or in any natural environment. Inform respective authorities in case of seepage into water course or sewage system. Do not allow to enter sewers/surface or ground water.
Containment:	Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Prevent entry into waterways, sewers, and confined areas.
Clean Up:	Dispose contaminated material as waste according to section 13. Disposal must be made according to official regulations.

Section 7. Handling and Storage

Handling Precautions:	Store in cool, dry place in tightly closed receptacles. Keep away from heat
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	and direct sunlight. Ensure good ventilation/exhaustion at the workplace. Handle with care. Wear gloves and eye protection. Avoid inhalation and contact with skin and eyes. Follow good manufacturing practices for housekeeping and personal hygiene. Wash any exposed skin immediately after any chemical contact, before breaks, and meals and at the end of each work period. Contaminated clothing and shoes should be thoroughly cleaned before re-use.
Storage Precautions:	Store in sealed container, Keep away from sources of ignition – No smoking. Take measures to prevent the buildup of electrostatic charge.
Other:	See Section 8

Section 8. Exposure Controls/Personal Protection

Engineering Controls:	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
Respiratory Protection:	Assure a good ventilation of work place.
Hand Protection:	The glove material has to be impermeable.
Eye Protection:	Goggles giving complete protection to eyes. Eyewash bottle with clean water.
Skin and Body Protection:	Clothes for chemical protection to avoid contact.
Ingestion:	Do not eat, drink or smoke while using.
Industrial Hygiene:	Provide ventilation of the work place to reduce concentrations of the vapor and product.
OSHA Permissible Exposure Limits (PELs):	N/A
ACGIH Threshold Limit Values:	N/A

Section 9. Physical and Chemical Properties

Appearance:	A yellow to brownish green liquid and often showing a waxy separation.
Upper/Lower Flammability:	N/A
Odor:	Fresh, citrus-like odor
Vapor Pressure:	0.9 hPa (0.7 mm Hg) @ 68°F/20°C
Odor Threshold:	N/A
Vapor Density:	N/A
pH:	N/A
Relative Density:	0.86 g/cm ³ at 20°C
Melting Point:	N/A
Freezing Point:	N/A
Solubility:	Soluble in most fixed oils and in mineral oil.
Initial Boiling Point and Boiling Range:	N/A
Flash Point:	131°F / 55°C
Evaporation Rate:	N/A
Flammability Category:	N/A
Partition Coefficient:	N/A
Auto-ignition Temperature:	N/A

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Decomposition Temperature:	N/A
Viscosity:	N/A
Specific Gravity:	0.861

Section 10. Stability and Reactivity

Stability:	Stable under normal circumstances. Avoid heat and ignition sources.
Avoid:	Heat, flames, sparks.
Incompatibility:	No further relevant information available.
Hazardous Byproducts:	No further relevant information available.
Other:	None.

Section 11. Toxicological Information

Toxicological and Health Effects:	Can be noxious, can induce irritations and serious eye damage/eye irritation.
Likely Routes of Exposure:	Eyes, nose, mouth, skin.
Signs and Symptoms of Exposure:	See Section 2.
LD50 (median lethal dose):	(oral, rat) 50,000 mg/kg; (dermal, rabbit) 5,000 mg/kg
Listed NTP Carcinogen:	No component of this product presents at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
Ingestion:	N/A

Section 12. Ecological Information

Toxicity:	See Section 2
Persistence/Degradability:	No information available.
Bioaccumulation Potential:	No information available.
Results of PBT / vPvB Assessment :	PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.
Mobility in Soil:	No information available.
Other Adverse Effects:	Not known.

Section 13. Disposal Considerations

Disposal Containers:	Vapors may collect in empty containers. Rinse or evaporate thoroughly.
Waste Disposal:	Product is biodegradable.
Special Considerations:	Dispose of spill containment material in accordance with Federal, State, and local laws.

Section 14. Transport Information

UN Number:	1197
UN Shipping Name:	Extracts, flavoring, liquid.
Transport Hazard Class:	3
Packing Group Number:	III
Stowage and Handling:	N/A

Section 15. Regulatory Information

Product Regulations:	N/A
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Section 16. Other Information

Disclaimer:

This information is provided for documentation purposes only.

The complete range of conditions or methods of use are beyond our control therefore we do not assume any responsibility and expressly disclaim any liability for any use of this product. Information contained herein is believed to be true and accurate however, all statements or suggestions are made without warranty, expressed or implied, regarding accuracy of the information, the hazards connected with the use of the material or the results to be obtained from the use thereof. Compliance with all applicable federal, state, and local laws and regulations remains the responsibility of the user. This safety sheet cannot cover all possible situations which the user may experience during processing. Each aspect of your operation should be examined to determine if, or where, additional precautions may be necessary. All health and safety information contained in this bulletin should be provided to your employees or customers.

Revision Date	Revision made	Prepared by
2021	Updated.	SAM
1/25/2023	Formatting changes.	SDR
8/7/2024	Updated per supplier SDS	SDR

End of SDS

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