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LIBERTY NATURAL PRODUCTS, INC.

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

Section 1. Product and Company Identification

Product Name:	Garlic
Product Code:	1762
Description:	Essential Oil of Garlic
Product Use:	Cosmetic and Manufacturing
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:	Warning
Ingestion:	H302 Harmful if swallowed.
Health Risks:	N/A
Eye Contact:	N/A
Skin Contact:	N/A
Environmental:	N/A

Pictograms:



PRECAUTIONARY STATEMENT:

- P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
- P233 Keep container tightly closed.
- P240 Ground/bond container and receiving equipment.
- P241 Use explosion-proof electrical/ventilating/lighting/equipment.
- P242 Use only non-sparking tools.
- P243 Take precautionary measures against static discharge.
- P264 Wash skin thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P301 + 312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
- P303 + 361 + 353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P330 Rinse mouth.

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P370 + 378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

P403 + 235 Store in a well-ventilated place. Keep cool.

P501 Dispose of contents/container to an approved waste disposal plant.

Section 3. Composition and Information on Ingredients

Chemical Name: *Allium sativum*

Physical State: Liquid.

CAS #: 8000-78-0

Impurities: None.

Trade Secret Claim: None.

Section 4. First Aid Measures

Eyes: Flush eyes with water as a precaution.

Skin Contact: Wash off with soap and plenty of water. Consult a physician.

Inhalation: If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

Ingestion in excess: Do NOT induce vomiting. Rinse mouth with water. Never give anything by mouth to an unconscious person. Consult a physician.

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: CO₂, foam, dry chemical.
NON SUITABLE: Water.

Special Fire-Fighting Procedure: Do not allow firefighting water to enter drains or water courses. Fight fire with normal precautions from a reasonable distance. Wear self-contained breathing apparatus. Cool all affected containers with flooding quantities of water.

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. Nature of decomposition products not known.

PPE and Precautions for Firefighters: May produce toxic fumes of carbon monoxide if burning. Wear self-contained breathing apparatus for firefighting if necessary.

Section 6. Accidental Release Measures

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Personal Precautions:	Use personal protective equipment. Avoid all contact with eyes and mucous membranes by wearing goggles, protective clothing, vapor respirator, boots and gloves. Ensure adequate ventilation or wear respirator.
Environmental Precautions:	Prevent further leakage or spillage if safe to do so. Keep away from drains, surface and ground water. Retain contaminated washing water and dispose it. Explosive properties.
Containment:	Absorb with clay, sand, or other non-combustible material. Prevent entry into waterways, sewers, and confined areas.
Clean Up:	Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations. Place in appropriate containers for disposal. Ventilate affected area.

Section 7. Handling and Storage

Handling Precautions:	Keep away from sources of ignition - No smoking. Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Take precautionary measures against static discharge. Wash hands before breaks and after work. Keep away from food, drink and animals. When using do not smoke.
Storage Precautions:	Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Other:	See Section 8

Section 8. Exposure Controls/Personal Protection

Engineering Controls:	Technical measures and the application of suitable work processes have priority over personal protection equipment.
Respiratory Protection:	Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH.
Hand Protection:	Handle with gloves. Wash and dry hands after use.
Eye Protection:	Face shield and safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH.
Skin and Body Protection:	Clothes for chemical protection to avoid contact.

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Ingestion:	Do not eat, drink and smoke while using.
Industrial Hygiene:	Provide ventilation of the work place to reduce concentrations of the vapor and product. Use good industrial hygiene practices.
OSHA Permissible Exposure Limits (PELs):	>480 minutes (permeation: level 6)
ACGIH Threshold Limit Values:	N/A

Section 9. Physical and Chemical Properties

Appearance:	Yellow clear liquid
Upper/Lower Flammability:	N/A
Odor:	Strong garlic odor
Vapor Pressure:	N/A
Odor Threshold:	N/A
Vapor Density:	N/A
pH:	N/A
Relative Density:	1.083 g/cm ³ at 25°C
Melting Point:	N/A
Freezing Point:	N/A
Solubility:	Insoluble
Initial Boiling Point and Boiling Range:	282°F / 139°C
Flash Point:	114.8°F / 46°C
Evaporation Rate:	N/A
Flammability Category:	N/A
Partition Coefficient:	N/A
Auto-ignition Temperature:	N/A
Decomposition Temperature:	N/A
Viscosity:	N/A
Specific Gravity:	N/A

Section 10. Stability and Reactivity

Stability:	The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.
Avoid:	Excessive heat, flames and sparks
Incompatibility:	Strong oxidizing agents.
Hazardous Byproducts:	Hazardous combustion products: see section 5.
Other:	N/A

Section 11. Toxicological Information

Toxicological and Health Effects:	Nontoxic at established levels.
Likely Routes of Exposure:	Eyes, nose, mouth, skin.
Signs and Symptoms of Exposure:	N/A
LD50 (median lethal dose):	1,360 mg/kg (Oral, Rat)

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Listed NTP Carcinogen: No component of this product present 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: Toxic to aquatic life with long lasting effects.

PERSISTENCE / DEGRADABILITY: No information available.

BIOACCUMULATION POTENTIAL: No information available.

RESULTS OF PBT AND vPvB

ASSESSMENT: PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

MOBILITY IN SOIL: No information available.

OTHER ADVERSE EFFECTS: No information available.

Section 13. Disposal Considerations

Disposal Containers: Product is a dangerous waste; only packaging which is approved (e.g. acc. to ADR) may be used.

Waste Disposal: Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company.

Special Considerations: Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities. Please consider the relevant national or regional provisions.

Section 14. Transport Information

UN Number: 1993

UN Shipping Name: Flammable liquid, n.o.s.

Transport Hazard Class: 3

Packing Group Number: III

Stowage and Handling: N/A

Section 15. Regulatory Information

Product Regulations: N/A

Section 16. Other Information

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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.

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