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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

<b>Product Name:</b>	Hops Flower
<b>Product Code:</b>	346
<b>Description:</b>	Essential Oil of Hops
<b>Product Use:</b>	Cosmetic and Manufacturing
<b>Manufacturer:</b>	Liberty Natural Products, 20949 S Harris Rd, Oregon City, OR 97045 (800) 289-8427
<b>Emergency Phone:</b>	USA, Canada, Mexico: 1-800-535-5053 International: 1-352-323-3500

## Section 2. Hazards Identification

<b>Category:</b>	H226 Flammable liquid and vapor.
<b>Signal Word:</b>	Warning
<b>Ingestion:</b>	H304 May be fatal if swallowed and enters airways.
<b>Health Risks:</b>	N/A
<b>Eye Contact:</b>	H319 Causes serious eye irritation.
<b>Skin Contact:</b>	H317 May cause an allergic skin reaction.
<b>Environmental:</b>	H411 Toxic to aquatic life with long-lasting effects.

**Pictograms:**



**PRECAUTIONARY STATEMENT:**

- P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
- P264 Wash thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P312 Call a POISON CENTER or doctor if you feel unwell.
- P363 Wash contaminated clothing before reuse.
- P403 Store in a well-ventilated place.

## Section 3. Composition and Information on Ingredients

<b>Chemical Name:</b>	<i>Humulus lupulus</i>
<b>Physical State:</b>	Liquid.
<b>CAS #:</b>	8060-28-4
<b>Impurities:</b>	None.
<b>Trade Secret Claim:</b>	None.

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#### Section 4. First Aid Measures

<b>Eyes:</b>	Rinse cautiously with water for several minutes. In all cases of doubt, or when symptoms persist, seek medical advice
<b>Skin Contact:</b>	Rinse skin with water/shower. In case of skin irritation, consult a physician.
<b>Inhalation:</b>	Provide fresh air. In all cases of doubt, or when symptoms persist, seek medical advice.
<b>Ingestion in excess:</b>	Do not try to induce vomiting. Rinse mouth. Consult a doctor. Never give anything by mouth to a person who is unconscious or having convulsions. Seek medical assistance as needed.
<b>Emergency Care:</b>	Contact local emergency provider. For non-emergency, contact primary care provider.
<b>PPE:</b>	Gloves, lab coat or uniform, safety glasses, eyewash, safety shower.

#### Section 5. Fire-Fighting Measures

<b>Flammability:</b>	Flammable.
<b>Extinguishing Media:</b>	SUITABLE: CO <sub>2</sub> , foam, dry chemical. NON SUITABLE: Water.
<b>Special Fire-Fighting Procedure:</b>	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.
<b>Unusual Fire and Explosion Hazards:</b>	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.
<b>PPE and Precautions for Firefighters:</b>	May produce toxic fumes of carbon monoxide if burning.

#### Section 6. Accidental Release Measures

<b>Personal Precautions:</b>	Avoid all contact with eyes and mucous membranes by wearing goggles, protective clothing, vapor respirator, boots, gloves, and or self-contained breathing apparatus.
<b>Environmental Precautions:</b>	Keep away from drains, surface and ground water. Retain contaminated washing water and dispose it. Explosive properties.
<b>Containment:</b>	Absorb with clay, sand, or other non-combustible material. Prevent entry into waterways, sewers, and confined areas.
<b>Clean Up:</b>	Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Place in appropriate containers for disposal. Ventilate affected area.

#### Section 7. Handling and Storage

<b>Handling Precautions:</b>	Keep away from sources of ignition - No smoking. 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.
<b>Storage Precautions:</b>	Store in sealed container, keep container closed after using. Recommended storage temperature: 15 - 25 °C.
<b>Other:</b>	See Section 8

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## Section 8. Exposure Controls/Personal Protection

<b>Engineering Controls:</b>	Technical measures and the application of suitable work processes have priority over personal protection equipment.
<b>Respiratory Protection:</b>	If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.
<b>Hand Protection:</b>	Plastic or synthetic rubber impermeable gloves. Use solvent and acid resistant protection gloves.
<b>Eye Protection:</b>	Goggles giving complete protection to eyes.
<b>Skin and Body Protection:</b>	Clothes for chemical protection to avoid contact.
<b>Ingestion:</b>	Do not eat, drink and smoke while using.
<b>Industrial Hygiene:</b>	Provide ventilation of the work place to reduce concentrations of the vapor and product. Use good industrial hygiene practices.
<b>OSHA Permissible Exposure Limits (PELs):</b>	>480 minutes (permeation: level 6)
<b>ACGIH Threshold Limit Values:</b>	N/A

## Section 9. Physical and Chemical Properties

<b>Appearance:</b>	Yellow liquid
<b>Upper/Lower Flammability:</b>	N/A
<b>Odor:</b>	Characteristic
<b>Vapor Pressure:</b>	N/A
<b>Odor Threshold:</b>	N/A
<b>Vapor Density:</b>	N/A
<b>pH:</b>	N/A
<b>Relative Density:</b>	N/A
<b>Melting Point:</b>	N/A
<b>Freezing Point:</b>	N/A
<b>Solubility:</b>	Insoluble
<b>Initial Boiling Point and Boiling Range:</b>	N/A
<b>Flash Point:</b>	118.4°F / 48°C
<b>Evaporation Rate:</b>	N/A
<b>Flammability Category:</b>	N/A
<b>Partition Coefficient:</b>	N/A
<b>Auto-ignition Temperature:</b>	N/A
<b>Decomposition Temperature:</b>	N/A
<b>Viscosity:</b>	N/A
<b>Specific Gravity:</b>	N/A

## Section 10. Stability and Reactivity

<b>Stability:</b>	The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.
<b>Avoid:</b>	Excessive heat.
<b>Incompatibility:</b>	There is no additional information.
<b>Hazardous Byproducts:</b>	Hazardous combustion products: see section 5.
<b>Other:</b>	Temperatures more than room temperature will benefit the transfer from liquid to vapor phase and formation of explosive atmospheres. Storing the product in open containers will benefit the formation of peroxides and derogate the quality.

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### Section 11. Toxicological Information

<b>Toxicological and Health Effects:</b>	Nontoxic at established levels.
<b>Likely Routes of Exposure:</b>	Eyes, nose, mouth, skin.
<b>Signs and Symptoms of Exposure:</b>	N/A
<b>LD50 (median lethal dose):</b>	(oral, rat) 3,500 mg/kg
<b>Listed NTP Carcinogen:</b>	Not available
<b>INGESTION:</b>	N/A

### Section 12. Ecological Information

<b>TOXICITY:</b>	Toxic to aquatic life with long lasting effects.
<b>PERSISTENCE/ DEGRADABILITY:</b>	No information available.
<b>BIOACCUMULATION POTENTIAL:</b>	May cause long-term adverse effects in the aquatic environment. Marine pollutant
<b>RESULTS OF PBT AND vPvB ASSESSMENT:</b>	No information available.
<b>MOBILITY IN SOIL:</b>	No information available.
<b>OTHER ADVERSE EFFECTS:</b>	No information available.

### Section 13. Disposal Considerations

<b>Disposal Containers:</b>	It is a dangerous waste; only packaging which is approved (e.g. acc. to ADR) may be used.
<b>Waste Disposal:</b>	Do not empty into drains. Avoid release to the environment.
<b>Special Considerations:</b>	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

<b>UN Number</b>	UN 1197
<b>UN Shipping Name:</b>	Extracts, liquid for flavour or aroma
<b>Transport Hazard Class:</b>	3
<b>Packing Group Number:</b>	III
<b>Stowage and Handling:</b>	N/A

### Section 15. Regulatory Information

<b>Product Regulations:</b>	N/A
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### Section 16. Other Information

<b>Last Revised:</b>	3/6/2023	<b>Initial of Editor:</b> SDR
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*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*

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*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.*

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