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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:	Orange Sweet Brazil
Product Code:	1258
Description:	Essential Oil of Orange
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.
Environmental:	H410 Very toxic to aquatic life with long-lasting effects.
Pictograms:	

PRECAUTIONARY STATEMENT:

- P210 Keep away from heat, sparks, open flames or hot surfaces. – No smoking.
- P233 Keep container tightly closed.
- P240 Ground/bond container and receiving equipment.
- P241 Use explosion-proof electrical, ventilating, lighting, communication, equipment.
- P242 Use only non-sparking tools.
- P243 Take precautionary measures against static discharge.
- P261 Avoid breathing dust, fume, gas, mist, vapors, spray.
- P264 Wash parts in contact 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.

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Section 3. Composition and Information on Ingredients

Chemical Name:	<i>Citrus Aurantium Dulcis</i>
Physical State:	Liquid.
CAS #:	8008-57-9
Impurities:	None.
Trade Secret Claim:	None.

Section 4. First Aid Measures

Eyes:	Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Get medical attention.
Skin Contact:	Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention.
Inhalation:	Move to fresh air and keep at rest. Get medical attention.
Ingestion in excess:	Get medical attention. Rinse mouth thoroughly. Do not induce vomiting. Drink plenty of water.
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. NON SUITABLE: Water.
Special Fire-Fighting Procedure:	SCBA recommended. Smother to exclude air. Do not use water. Handle as an oil fire. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.
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:	Wear protective equipment. Keep unprotected persons away. Keep away from ignition sources.
Environmental Precautions:	Do not dispose in sewer or in any natural environment.
Containment:	Absorb with clay, sand, or other non-combustible material. Prevent entry into waterways, sewers, and confined areas.
Clean Up:	Disposal must be made according to official regulations. In case of copious pouring out, absorb the liquid with sand soil or other adequate material. Clean the contaminated area

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with detergent and water. If the product arrives to the sewer system, advise the firemen immediately.

Section 7. Handling and Storage

Handling Precautions:	Avoid spilling, skin and eye contact. Keep away from heat, open flame and direct sunlight. Ensure good ventilation/exhaustion at the workplace. Handle with care.
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:	No specific recommendation made, but respiratory protection may still be required under exceptional circumstances when excessive air contamination exists.
Hand Protection:	Use suitable protective gloves if risk of skin contact.
Eye Protection:	Wear approved safety goggles. Eyewash bottle with clean water.
Skin and Body Protection:	Wear apron or protective clothing in case of contact.
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.
OSHA Permissible Exposure Limits (PELs):	N/A
ACGIH Threshold Limit Values:	N/A

Section 9. Physical and Chemical Properties

Appearance:	Yellow to deep orange clear liquid.
Upper/Lower Flammability:	N/A
Odor:	Citrusy, fruity, orange
Vapor Pressure:	0.9 mm Hg at 20°C
Odor Threshold:	N/A
Vapor Density:	N/A
pH:	N/A
Relative Density:	0.838 to 0.848 at 20°C
Melting Point:	N/A
Freezing Point:	N/A
Solubility:	Insoluble
Initial Boiling Point and Boiling Range:	N/A
Flash Point:	114.8°F / 46°C
Evaporation Rate:	N/A

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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:	Stable under normal circumstances. Avoid heat and ignition sources.
Avoid:	Heat, flames, sparks and strong oxidizing agents.
Incompatibility:	Strongly oxidizing and reducing agents.
Hazardous Byproducts:	None in normal conditions
Other:	None

Section 11. Toxicological Information

Toxicological and Health Effects:	Can be noxious.
Likely Routes of Exposure:	Eyes, nose, mouth, skin.
Signs and Symptoms of Exposure:	See Section 2. Hazards Identification.
LD50 (median lethal dose):	5000 mg/kg (rat, oral) 5000 mg/kg (rabbit, dermal)
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:	Dangerous for the environment: May cause long-term adverse effects in the aquatic environment.
PERSISTENCE / DEGRADABILITY:	No information available.
BIOACCUMULATION POTENTIAL:	May cause long lasting harmful effects to aquatic life.
RESULTS OF PBT AND vPvB ASSESSMENT:	No information available.
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:	Waste is suitable for incineration. Dispose of waste and residues in accordance with local authority requirements.

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Special Considerations: Dispose of spill containment material in accordance with Federal, State, and local laws.

Section 14. Transport Information

UN Number: UN 2319
UN Shipping Name: Terpene hydrocarbons, n.o.s. (limonene)
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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