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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

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| Product Name: | Geranium |
| Product Code: | 1856 |
| Description: | Essential Oil of Geranium |
| 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

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| Category: | Non-Flammable Liquid |
| Signal Word: | Danger |
| Ingestion: | H302 Harmful if swallowed 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: | H411: Toxic to aquatic life with long-lasting effects. |

Pictograms:



PRECAUTIONARY STATEMENT:

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P301 + 310 + 331 If swallowed: immediately call a Poison Center or doctor/physician. Do not induce vomiting.

P333 + 313 If skin irritation or rash occurs: Get medical advice/attention.

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

Section 3. Composition and Information on Ingredients

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| Chemical Name: | <i>Pelargonium graveolens</i> |
| Physical State: | Liquid. |
| CAS #: | 90082-51-2 |
| Impurities: | None. |

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Trade Secret Claim: None.

Section 4. First Aid Measures

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| Eyes: | Flush immediately with water for at least 15 minutes. Contact physician if symptoms persist. |
| Skin Contact: | Remove contaminated clothes. Wash thoroughly with water (and soap). Contact physician if symptoms persist. |
| Inhalation: | Remove from exposure site to fresh air and keep at rest. Obtain medical advice. |
| Ingestion in excess: | Rinse mouth with water and obtain medical advice. |
| 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

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| Flammability: | Flammable. |
| Extinguishing Media: | SUITABLE: CO ₂ , foam, dry chemical. NON SUITABLE: Water. |
| 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: | May produce toxic fumes of carbon monoxide if burning. |

Section 6. Accidental Release Measures

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| Personal Precautions: | Avoid all contact with eyes and mucous membranes by wearing goggles, protective clothing, vapor respirator, boots, gloves, and or self-contained breathing apparatus. |
| Environmental Precautions: | Keep away from drains, surface and ground water. Retain contaminated washing water and dispose it. |
| 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). Place in appropriate containers for disposal. Ventilate affected area. Remove ignition sources. |

Section 7. Handling and Storage

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| Handling Precautions: | Avoid excessive inhalation of concentrated vapors. 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 |
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end of each work period. Contaminated clothing and shoes should be thoroughly cleaned before re-use. If appropriate, procedures used during the handling of this material should also be used when cleaning equipment or removing residual chemicals from tanks or other containers, especially when steam or hot water is used, as this may increase vapor concentrations in the workplace air. Where chemicals are openly handled, access should be restricted to properly trained employees. Keep all heated processes at the lowest necessary temperature in order to minimize emissions of volatile chemicals into the air. Keep away from ignition sources and naked flame.

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| Storage Precautions: | Store in a cool, dry, ventilated area away from heat sources. Keep containers upright and tightly closed when not in use. |
| Other: | See Section 8 |

Section 8. Exposure Controls/Personal Protection

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| Engineering Controls: | Where appropriate, use closed systems to transfer and process this material. If appropriate, isolate mixing rooms and other areas where this material is used or openly handled. Maintain these areas under negative air pressure relative to the rest of the plant. |
| Respiratory Protection: | Use local exhaust ventilation around open tanks and other open sources of potential exposures in order to avoid excessive inhalation, including places where this material is openly weighed or measured. No respiratory protection is required during normal operations in a workplace where engineering controls such as adequate ventilation is sufficient. |
| Hand Protection: | Avoid skin contact. Use chemically resistant gloves. |
| Eye Protection: | Use tight-fitting goggles, face shield or safety glasses with side shields if eye contact might occur. |
| Skin and Body Protection: | Clothes for chemical protection to avoid 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. 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

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| Appearance: | Pale to dark green liquid |
| Upper/Lower Flammability: | N/A |
| Odor: | Strong fresh, sweet, rosy and floral like |

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|---|----------------------------|
| Vapor Pressure: | N/A |
| Odor Threshold: | N/A |
| Vapor Density: | N/A |
| pH: | N/A |
| Relative Density: | N/A |
| Melting Point: | N/A |
| Freezing Point: | N/A |
| Solubility: | Insoluble |
| Initial Boiling Point and Boiling Range: | 356°F / 180°C at 760 mm Hg |
| Flash Point: | 181.4°F / 83°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: | 0.896 at 20°C |

Section 10. Stability and Reactivity

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| Stability: | The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure. |
| Avoid: | Excessive heat, incompatible materials |
| Incompatibility: | Strong acids, alkali or oxidizing agents. |
| Hazardous Byproducts: | Hazardous combustion products: see section 5. |
| Other: | 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. |

Section 11. Toxicological Information

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| 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): | No information available. |
| Listed NTP Carcinogen: | No information available |
| INGESTION: | N/A |

Section 12. Ecological Information

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| TOXICITY: | Toxic to aquatic life with long lasting effects. |
| PERSISTENCE/ DEGRADABILITY: | No information available. |
| BIOACCUMULATION POTENTIAL: | May cause long-term adverse effects in the aquatic environment. Marine pollutant |

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RESULTS OF PBT AND vPvB

| | |
|------------------------|---------------------------|
| ASSESSMENT: | No information available. |
| MOBILITY IN SOIL: | No information available. |
| OTHER ADVERSE EFFECTS: | No information available. |

Section 13. Disposal Considerations

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| Disposal Containers: | Empty containers should be taken to an approved waste handling site for recycling or disposal. |
| Waste Disposal: | Dispose of according to local regulations. Avoid disposing into drainage systems and into the environment. |
| 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

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| UN Number | 3082 |
| UN Shipping Name: | Environmentally hazardous substance, liquid, n.o.s. |
| Transport Hazard Class: | 9 |
| Packing Group Number: | III |
| Stowage and Handling: | N/A |

Section 15. Regulatory Information

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| Product Regulations: | N/A |
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Section 16. Other Information

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| Last Revised: | 1/17/2023 | Initial of Editor: SDR |
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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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