LIBERTY NATURAL PRODUCTS, INC.

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

Section 1. Product and Company Identification	
Product Name:	Organic Olive Extra Virgin Spain
Product Code:	93
Description:	Fixed Oil
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:	Flammable Liquid
Signal Word:	Warning
Ingestion:	N/A
Health Risks:	N/A
Eye Contact:	N/A
Skin Contact:	N/A
Environmental:	N/A
Pictograms:	N/A

Section 3. Composition and Information on Ingredients	
Chemical Name:	N/A
Physical State:	Liquid.
CAS #:	8001-25-0
Impurities:	None.
Trade Secret Claim:	None.

Section 4. First Aid Measures	
Eyes:	Rinse eyes immediately with running water at low pressure. Consult an ophthalmologist.
Skin Contact:	Wash area liberally with water.
Inhalation:	Relocate to fresh air; give artificial respiration if not breathing. Seek medical assistance as needed.
Ingestion in excess:	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.

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:	None	
Unusual Fire and Explosion Hazards:	Vapor may travel to source of ignition and flash back. Vapor may settle low or in confined spaces. May produce a floating fire hazard. Static ignition hazard can result from handling and use. 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 burn with near invisible flame. Use grounded containers.	

Section 6. Accidental Release Measures

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:	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:	Once contained wash with plenty of soap and water after complete elimination of the product. Small spills can be flushed with large amounts of water. Large spills- eliminate ignition sources; ground equipment; use vapor suppression such as foam; use non-sparking tools and non-combustible matter to absorb product and transfer to grounded containers.

Section 7. Handling and Storage

Handling Precautions:	Avoid contact with eyes and mucous.
Storage Precautions:	Store in sealed container, Keep away from humidity in a fresh place. Keep container closed after using.
Other:	See Section 8

Section 8. Exposure Controls/Personal Protection

Engineering Controls:	Exhaust ventilation or other engineering controls to keep vapor concentration below their respective threshold limit

	value. Ensure eyewash stations and safety showers are proximal to the work station.
Respiratory Protection:	Assure a good ventilation of work place.
Hand Protection:	Plastic or synthetic rubber impermeable gloves.
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 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:	Clear liquid, hazy when cold
Upper/Lower Flammability:	N/A
Odor:	Fruit aroma
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:	N/A
Initial Boiling Point and Boiling Range:	N/A
Flash Point:	N/A
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:	Stable under normal circumstances. Avoid heat and ignition sources.
Avoid:	Excessive heat.
Incompatibility:	Strong oxidizing agents; strong inorganic acids..
Hazardous Byproducts:	None in normal conditions
Other:	None

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:	See Section 2. Hazards Identification.
LD50 (median lethal dose:	Not available
Listed NTP Carcinogen:	Not classified as a human carcinogen.
INGESTION:	Acute toxicity, oral DL50 (mg/Kg): 2,100

Section 12. Ecological Information	
TOXICITY:	See Section 2
PERSISTENCE / DEGRADABILITY:	No information available.
BIOACCUMULATION POTENTIAL:	No information available.
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:	Product is biodegradable.
Special Considerations:	Dispose of spill containment material in accordance with Federal, State, and local laws.

Section 14. Transport Information	
UN Number	N/A
UN Shipping Name:	N/A
Transport Hazard Class:	N/A
Packing Group Number:	N/A
Stowage and Handling:	N/A

Section 15. Regulatory Information	
Product Regulations:	N/A

Section 16. Other Information		
Last Revised:	4/7/2020	**Initial of Author:** SAM

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Section 1. Product and Company Identification	
Product Name:	FRANKINCENSE REDISTILLED
Product Code:	396
Description:	Essential Oil of Frankincense
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:	H227 Combustible liquid.
Signal Word:	Warning
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:	H400 Very toxic to aquatic life. 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.

Section 3. Composition and Information on Ingredients

Chemical Name:	*Boswellia Serrata*
Physical State:	Liquid.
CAS#:	97952-72-2
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. Immediately 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: NON SUITABLE:	CO2, sand, extinguishing powder. 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:	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.
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 with detergent and water. If the product arrives to the sewer system, advise the firemen immediately.

Section 7. Handling and Storage

Handling Precautions:	Store in cool, dry place in tightly closed receptacles. Keep away from heat 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:	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 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:	Pale yellow
Upper/Lower Flammability:	N/A
Odor:	Orange Blossom like odor
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:	N/A
Flash Point:	42°C/107.6°F
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:	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):	N/A
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:	See Section 2
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:	Product is biodegradable.
Special Considerations:	Dispose of spill containment material in accordance with Federal, State, and local laws.

Section 14. Transport Information

UN Number	1993
UN Shipping Name:	Flammable liquid (Olibanum Oil)
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

Last Revised:	3/16/2020	SAM

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Section 1. Product and Company Identification	
Product Name:	Organic Plantain Leaf Powder
Product Code:	542
Description:	Herb
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:	N/A
Signal Word:	Warning
Ingestion:	N/A
Health Risks:	N/A
Eye Contact:	N/A
Skin Contact:	N/A
Environmental:	N/A
Pictograms:	N/A

Section 3. Composition and Information on Ingredients	
Chemical Name:	N/A
Physical State:	Powder.
CAS #:	N/A
Impurities:	None.
Trade Secret Claim:	None.

Section 4. First Aid Measures	
Eyes:	Rinse eyes immediately with running water at low pressure. Consult an ophthalmologist.
Skin Contact:	Wash area liberally with water.
Inhalation:	Relocate to fresh air; give artificial respiration if not breathing. Seek medical assistance as needed.
Ingestion in excess:	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.

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:	None	
Unusual Fire and Explosion Hazards:	None	
PPE and Precautions for Firefighters:	May burn with near invisible flame. Use grounded containers.	

Section 6. Accidental Release Measures

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:	Do not dispose in sewer or in any natural environment.
Containment:	Use appropriate tools to transfer spilled solid in a waste disposal container.
Clean Up:	After complete elimination of the product wash with plenty of soap and water and dispose in a sewer serviced by wastewater treatment facility.

Section 7. Handling and Storage

Handling Precautions:	Avoid contact with eyes and mucous.
Storage Precautions:	Store in sealed container. Keep away from humidity in a fresh place. Keep container closed after using.
Other:	See Section 8

Section 8. Exposure Controls/Personal Protection

Engineering Controls:	Exhaust ventilation or other engineering controls may be necessary to keep air contaminants below their respective threshold limit value. Ensure eyewash stations and safety showers are proximal to the work station.
Respiratory Protection:	Assure a good ventilation of work place.
Hand Protection:	Plastic or synthetic rubber impermeable gloves.
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 and smoke while using.
Industrial Hygiene:	Provide ventilation of the work place to reduce air contaminants.

OSHA Permissible Exposure Limits (PELs):	N/A
ACGIH Threshold Limit Values:	N/A

Section 9. Physical and Chemical Properties

Appearance:	N/A
Upper/Lower Flammability:	N/A
Odor:	N/A
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:	N/A
Initial Boiling Point and Boiling Range:	N/A
Flash Point:	N/A
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:	Stable under normal circumstances. Avoid heat and ignition sources.
Avoid:	Excessive heat.
Incompatibility:	Strong oxidizing agents; strong inorganic acids..
Hazardous Byproducts:	None in normal conditions
Other:	None

Section 11. Toxicological Information

Toxicologal and Health Effects:	Nontoxic at established levels.
Likely Routes of Exposure:	Eyes, nose, mouth, skin.
Signs and Symptoms of Exposure:	See Section 2. Hazards Identification.
LD50 (median lethal dose:	Not available
Listed NTP Carcinogen:	Not classified as a human carcinogen.

Section 12. Ecological Information

TOXICITY:	See Section 2
PERSISTENCE / DEGRADABILITY :	No information available.
BIOACCUMULATION POTENTIAL :	No information available.

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:	Empty containers should be taken to an approved waste handling site for recycling or disposal.
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	N/A
UN Shipping Name:	N/A
Transport Hazard Class:	N/A
Packing Group Number:	N/A
Stowage and Handling:	N/A

Section 15. Regulatory Information

Product Regulations: N/A

Section 16. Other Information

Last Revised: 2/18/2020 **Initial of Author:** SAM

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Section 1. Product and Company Identification	
Product Name:	Candelilla Wax Flakes
Product Code:	835
Description:	Wax
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:	N/A
Signal Word:	Warning
Ingestion:	N/A
Health Risks:	N/A
Eye Contact:	N/A
Skin Contact:	N/A
Environmental:	N/A
Pictograms:	N/A

PRECAUTIONARY STATEMENT: N/A

Section 3. Composition and Information on Ingredients	
Chemical Name:	N/A
Physical State:	Wax flakes.
CAS #:	8006-44-8
Impurities:	None.
Trade Secret Claim:	None.

Section 4. First Aid Measures	
Eyes:	Rinse eyes immediately with running water at low pressure. Consult an ophthalmologist.
Skin Contact:	Wash area liberally with water.
Inhalation:	Relocate to fresh air; give artificial respiration if not breathing. Seek medical assistance as needed.

Ingestion in excess:	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.
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:	None	
Unusual Fire and Explosion Hazards:	Vapor may travel to source of ignition and flash back. Vapor may settle low or in confined spaces. May produce a floating fire hazard. Static ignition hazard can result from handling and use. 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 burn with near invisible flame. Use grounded containers.	

Section 6. Accidental Release Measures

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:	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:	Once contained wash with plenty of soap and water after complete elimination of the product. Small spills can be flushed with large amounts of water. Large spills- eliminate ignition sources; ground equipment; use vapor suppression such as foam; use non-sparking tools and non-combustible matter to absorb product and transfer to grounded containers.

Section 7. Handling and Storage

Handling Precautions:	Avoid contact with eyes and mucous.
Storage Precautions:	Store in sealed container, Keep away from humidity in a fresh place. Keep container closed after using.
Other:	See Section 8

Section 8. Exposure Controls/Personal Protection

Engineering Controls:	Exhaust ventilation or other engineering controls to keep vapor concentration below their respective threshold limit value. Ensure eyewash stations and safety showers are proximal to the work station.
Respiratory Protection:	Assure a good ventilation of work place.
Hand Protection:	Plastic or synthetic rubber impermeable gloves.
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 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 brown flakes
Upper/Lower Flammability: N/A	
Odor:	Characteristic
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:	Partly soluble
Initial Boiling Point and Boiling Range: N/A	
Flash Point:	N/A
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:	0.982-0.993

Section 10. Stability and Reactivity

Stability:	Stable under normal circumstances. Avoid heat and ignition sources.
Avoid:	Excessive heat.
Incompatibility:	Strong oxidizing agents; strong inorganic acids..
Hazardous Byproducts:	None in normal conditions

Other:	None

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:	See Section 2. Hazards Identification.
LD50 (median lethal dose:	Not available
Listed NTP Carcinogen:	Not classified as a human carcinogen.
INGESTION:	N/A

Section 12. Ecological Information	
TOXICITY:	See Section 2
PERSISTENCE / DEGRADABILITY:	No information available.
BIOACCUMULATION POTENTIAL:	No information available.
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:	Product is biodegradable.
Special Considerations:	Dispose of spill containment material in accordance with Federal, State, and local laws.

Section 14. Transport Information	
UN Number	N/A
UN Shipping Name:	N/A
Transport Hazard Class:	N/A
Packing Group Number:	N/A
Stowage and Handling:	N/A

Section 15. Regulatory Information	
Product Regulations:	N/A

Section 16. Other Information		
Last Revised:	4/14/2020	**Initial of Author:** SAM

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Section 1. Product and Company Identification

Product Name:	PEPPERMINT NATURAL YAKIMA
Product Code:	897
Description:	Essential Oil of Peppermint
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:	Warning
Ingestion:	H335 May cause respiratory irritation
Health Risks:	N/A
Eye Contact:	H319 Causes eye irritation.
Skin Contact:	H315 Causes skin irritation. H317 May cause an allergic skin reaction.
Environmental:	H411 Toxic to aquatic life.
Pictograms:	

PRECAUTIONARY STATEMENT:
P262 Do not get in eyes, on skin, or on clothing
P273 Avoid release to the environment
P280 Wear protective gloves/protective clothing/eye protection/face protection
P302 + 352 IF ON SKIN: Wash with plenty of soap and water
P391 Collect spillage

Section 3. Composition and Information on Ingredients

Chemical Name:	*Mentha piperita*
Physical State:	Liquid.
CAS #:	8006-90-4
Impurities:	None.
Trade Secret Claim:	None.

Section 4. First Aid Measures	
Eyes:	Rinse eyes immediately with running water at low pressure for at least 15 minutes. If symptoms persist, seek medical advice.
Skin Contact:	Immediately remove all contaminated clothing. Wash skin thoroughly with soap and water for several minutes. Get medical attention if irritation develops and persists.
Inhalation:	If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. If not breathing give artificial respiration. Call a physician if symptoms develop or persist.
Ingestion in excess:	Call a physician or poison control center immediately. If swallowed, rinse mouth with water (only if the person is conscious). Do not induce vomiting. If vomiting occurs, the head should be kept low so that stomach vomit doesn't enter the lungs. Never give anything by mouth to an unconscious person.
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: Fog, CO_2, dry chemical, or alcohol resistant foam NON SUITABLE: Water.
Special Fire-Fighting Procedure:	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Structural firefighter's protective clothing will only provide limited protection. Wear self-contained breathing apparatus with a full face piece operated in the positive pressure demand mode when fighting fires. Product releases carbon monoxide and dioxide, smoke and soot. Wear self-contained breathing apparatus for firefighting if necessary. Use water spray to cool unopened containers.
Unusual Fire and Explosion Hazards:	Vapor may travel to source of ignition and flash back. Vapor may settle low or in confined spaces. May produce a floating fire hazard. Static ignition hazard can result from handling and use. 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:	Static charges generated by emptying package in or near flammable vapor may cause flash fire. Use water spray to cool unopened containers.

Section 6. Accidental Release Measures

Personal Precautions:	Keep unnecessary personnel away. Eliminate all sources of ignition. Avoid contact with skin or inhalation of spillage, dust or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Avoid inhalation. A self-contained breathing apparatus is recommended in case of a major spill. Vapors can accumulate in low areas to form explosive concentrations.
Environmental Precautions:	Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid release to the environment. Retain and dispose of contaminated wash water. Contact local authorities in case of spillage to drain/aquatic environment.
Containment:	Absorb with clay, sand, or other non-combustible material. Prevent entry into waterways, sewers, and confined areas.
Clean Up:	Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area). Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb with inert absorbent such as dry clay, sand or diatomaceous earth, commercial sorbents, or recover using pumps. The product is immiscible with water and will spread on the water surface. If the spill is small, wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. Never return spills in original containers for re-use. This material and its container must be disposed of as hazardous waste.

Section 7. Handling and Storage

Handling Precautions:	Avoid contact with eyes and mucous. Keep container closed. Handle containers with care. Open slowly in order to control possible pressure release. Follow good manufacturing practices for housekeeping and personal hygiene. Wash any exposed skin immediately after any chemical contact. Dispose or clean contaminated clothing before reusing. Keep away from ignition sources and open flame.
Storage Precautions:	Store in a cool, well-ventilated area. Do not handle or store near an open flame, heat or other sources of ignition. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Avoid breathing vapor. Avoid contact with eyes,

	skin, and clothing. Avoid prolonged exposure. Wash thoroughly after handling
Other:	See Section 8

Section 8. Exposure Controls/Personal Protection

Engineering Controls:	Exhaust ventilation or other engineering controls to keep vapor concentration below their respective threshold limit value. Ensure eyewash stations and safety showers are proximal to the work station. Use explosion-proof ventilation equipment to stay below exposure limits. When required, apply local exhaust systems to maintain negative air pressure relative to other production areas. If deemed necessary, isolate production areas when mixing or when material is openly handled.
Respiratory Protection:	When appropriate, use local ventilation systems around containers that have been opened to avoid excessive inhalation. Respiratory protection should not be required during normal operations in a work area where environmental controls such as adequate ventilation, etc. are applied and properly functioning.
Hand Protection:	Plastic or synthetic rubber impermeable gloves. Chemical resistant gloves.
Eye Protection:	Goggles giving complete protection to eyes. Eyewash bottle with clean water.
Skin and Body Protection :	Clothes for chemical protection to avoid contact. Use of an impervious apron is recommended.
Ingestion:	Do not eat, drink and smoke while using
Industrial Hygiene:	When using, do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be allowed out of the workplace.
OSHA Permissible Exposure Limits (PELs):	N/A
ACGIH Threshold Limit Values:	N/A

Section 9. Physical and Chemical Properties

Appearance:	Colorless to pale yellow liquid (@ 20°C)
Upper/Lower Flammability:	Will ignite if moderately heated
Odor:	Minty, cooling, herbal
Vapor Pressure:	N/A
Odor Threshold:	N/A
Vapor Density:	N/A
pH:	N/A

Relative Density:	0.8960-0.9080 (@ 20°C)
Melting Point:	N/A
Freezing Point:	N/A
Solubility:	Insoluble
Initial Boiling Point and Boiling Range:	N/A
Flash Point:	67°C/152.6°F
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:	Stable under normal circumstances. Avoid heat and ignition sources.
Avoid:	Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials such as strong acids, alkali or oxidizing agents.
Incompatibility:	Strong oxidizing agents.
Hazardous Byproducts:	Carbon monoxide and unidentified organic compounds may be formed during combustion.
Other:	No hazardous decomposition products if stored and handled as indicated.

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:	Skin irritation. May cause redness and pain. May cause an allergic skin reaction, dermatitis or rash.
LD50 (median lethal dose):	N/A
Listed NTP Carcinogen:	N/A
INGESTION:	Can be noxious

Section 12. Ecological Information

TOXICITY:	Harmful to aquatic life with long lasting effects.
PERSISTENCE / DEGRADABILITY:	No data is available on the degradability of this product.
BIOACCUMULATION POTENTIAL:	No information available.
RESULTS OF PBT AND vPvB ASSESSMENT:	No information available.
MOBILITY IN SOIL:	No information available.

OTHER ADVERSE EFFECTS:	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

Section 13. Disposal Considerations

Disposal Containers:	Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.
Waste Disposal:	Do not discharge into drains, water courses or onto the ground. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.
Special Considerations:	Dispose of spill containment material in accordance with Federal, State, and local laws.

Section 14. Transport Information

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

Product Regulations: N/A

Section 16. Other Information

Last Revised: 1/29/20 **Initial of Author:** SAM

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Liberty Natural Products, Inc.
20949 S Harris Rd ● Oregon City, Oregon ● 97045 ● USA.
sales@libertynatural.com ● Telephone 1 (800) 289-8427 ● Fax (503) 631-2424 ●
www.libertynatural.com

LIBERTY NATURAL PRODUCTS, INC.

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Section 1. Product and Company Identification	
Product Name:	Organic St. Johns Wort C/S CHILE
Product Code:	2115
Description:	Herb
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:	N/A
Signal Word:	N/A
Ingestion:	N/A
Health Risks:	N/A
Eye Contact:	N/A
Skin Contact:	N/A
Environmental:	N/A
Pictograms:	N/A

Section 3. Composition and Information on Ingredients	
Chemical Name:	*Hypericum Perforatum*
Physical State:	Dried herb.
CAS #:	N/A
Impurities:	None.
Trade Secret Claim:	None.

Section 4. First Aid Measures	
Eyes:	Rinse eyes immediately with running water at low pressure. Consult an ophthalmologist.
Skin Contact:	Wash area liberally with water.
Inhalation:	Relocate to fresh air; give artificial respiration if not breathing. Seek medical assistance as needed.
Ingestion in excess:	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.

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:	None	
Unusual Fire and Explosion Hazards:	None	
PPE and Precautions for Firefighters:	May burn with near invisible flame. Use grounded containers.	

Section 6. Accidental Release Measures

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:	Do not dispose in sewer or in any natural environment.
Containment:	Use appropriate tools to transfer spilled solid in a waste disposal container.
Clean Up:	After complete elimination of the product wash with plenty of soap and water and dispose in a sewer serviced by wastewater treatment facility.

Section 7. Handling and Storage

Handling Precautions:	Avoid contact with eyes and mucous.
Storage Precautions:	Store in sealed container. Keep away from humidity in a fresh place. Keep container closed after using.
Other:	See Section 8

Section 8. Exposure Controls/Personal Protection

Engineering Controls:	Exhaust ventilation or other engineering controls may be necessary to keep air contaminants below their respective threshold limit value. Ensure eyewash stations and safety showers are proximal to the work station.
Respiratory Protection:	Assure a good ventilation of work place.
Hand Protection:	Plastic or synthetic rubber impermeable gloves.
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 and smoke while using.
Industrial Hygiene:	Provide ventilation of the work place to reduce air contaminants.

OSHA Permissible Exposure Limits (PELs):	N/A
ACGIH Threshold Limit Values:	N/A

Section 9. Physical and Chemical Properties

Appearance:	N/A
Upper/Lower Flammability:	N/A
Odor:	N/A
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:	N/A
Initial Boiling Point and Boiling Range:	N/A
Flash Point:	N/A
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:	Stable under normal circumstances. Avoid heat and ignition sources.
Avoid:	Excessive heat.
Incompatibility:	Strong oxidizing agents; strong inorganic acids..
Hazardous Byproducts:	None in normal conditions
Other:	None

Section 11. Toxicological Information

Toxicologal and Health Effects:	Nontoxic at established levels.
Likely Routes of Exposure:	Eyes, nose, mouth, skin.
Signs and Symptoms of Exposure:	See Section 2. Hazards Identification.
LD50 (median lethal dose:	Not available
Listed NTP Carcinogen:	Not classified as a human carcinogen.

Section 12. Ecological Information

TOXICITY:	See Section 2
PERSISTENCE / DEGRADABILITY :	No information available.
BIOACCUMULATION POTENTIAL :	No information available.

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:	Empty containers should be taken to an approved waste handling site for recycling or disposal.
Waste Disposal:	Disposal can occur only in properly permitted facilities and in accordance with local regulation.
Special Considerations:	Dispose of spill containment material in accordance with Federal, State, and local laws.

Section 14. Transport Information

UN Number	N/A
UN Shipping Name:	N/A
Transport Hazard Class:	N/A
Packing Group Number:	N/A
Stowage and Handling:	N/A

Section 15. Regulatory Information

Product Regulations: N/A

Section 16. Other Information

Last Revised: 2/13/2020 **Initial of Author:** SAM

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LIBERTY NATURAL PRODUCTS, INC.

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Section 1. Product and Company Identification	
Product Name:	Organic Hemp Seed Organic Oil USA
Product Code:	2206
Description:	Fixed Oil
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:	Flammable Liquid
Signal Word:	Warning
Ingestion:	N/A
Health Risks:	N/A
Eye Contact:	N/A
Skin Contact:	N/A
Environmental:	N/A
Pictograms:	N/A

Section 3. Composition and Information on Ingredients	
Chemical Name:	N/A
Physical State:	Liquid.
CAS #:	N/A
Impurities:	None.
Trade Secret Claim:	None.

Section 4. First Aid Measures	
Eyes:	Rinse eyes immediately with running water at low pressure. Consult an ophthalmologist.
Skin Contact:	Wash area liberally with water.
Inhalation:	Relocate to fresh air; give artificial respiration if not breathing. Seek medical assistance as needed.
Ingestion in excess:	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.

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:	None	
Unusual Fire and Explosion Hazards:	Vapor may travel to source of ignition and flash back. Vapor may settle low or in confined spaces. May produce a floating fire hazard. Static ignition hazard can result from handling and use. 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 burn with near invisible flame. Use grounded containers.	

Section 6. Accidental Release Measures

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:	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:	Once contained wash with plenty of soap and water after complete elimination of the product. Small spills can be flushed with large amounts of water. Large spills- eliminate ignition sources; ground equipment; use vapor suppression such as foam; use non-sparking tools and non-combustible matter to absorb product and transfer to grounded containers.

Section 7. Handling and Storage

Handling Precautions:	Avoid contact with eyes and mucous.
Storage Precautions:	Store in sealed container, Keep away from humidity in a fresh place. Keep container closed after using.
Other:	See Section 8

Section 8. Exposure Controls/Personal Protection

Engineering Controls:	Exhaust ventilation or other engineering controls to keep vapor concentration below their respective threshold limit value. Ensure eyewash stations and safety showers are proximal to the work station.
Respiratory Protection:	Assure a good ventilation of work place.
Hand Protection:	Plastic or synthetic rubber impermeable gloves.
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 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:	Green colored liquid
Upper/Lower Flammability:	N/A
Odor:	Nutty
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:	N/A
Initial Boiling Point and Boiling Range:	383°C
Flash Point:	95°C/203°F
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:	0.9333

Section 10. Stability and Reactivity

Stability:	Stable under normal circumstances. Avoid heat and ignition sources.
Avoid:	Excessive heat.
Incompatibility:	Strong oxidizing agents; strong inorganic acids..

Hazardous Byproducts:	None in normal conditions
Other:	None

Section 11. Toxicological Information

Toxicologal and Health Effects:	Nontoxic at established levels.
Likely Routes of Exposure:	Eyes, nose, mouth, skin.
Signs and Symptoms of Exposure:	See Section 2. Hazards Identification.
LD50 (median lethal dose:	Not available
Listed NTP Carcinogen:	Not classified as a human carcinogen.
INGESTION:	Acute toxicity, oral DL50 (mg/Kg) : 2,100

Section 12. Ecological Information

TOXICITY:	See Section 2
PERSISTENCE / DEGRADABILITY :	No information available.
BIOACCUMULATION POTENTIAL :	No information available.
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:	Product is biodegradable.
Special Considerations:	Dispose of spill containment material in accordance with Federal, State, and local laws.

Section 14. Transport Information

UN Number	N/A
UN Shipping Name:	N/A
Transport Hazard Class:	N/A
Packing Group Number:	N/A
Stowage and Handling:	N/A

Section 15. Regulatory Information

Product Regulations: N/A

Section 16. Other Information

Last Revised: 2/12/2020 **Initial of Author:** SAM

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www.libertynatural.com

CERTIFICATE OF ANALYSIS

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Customer: The Spectrum Labs - CANDLER, NC 28715

Order #:709572
Batch #: OSF.CRUDE.2.1
Order Date: 11/27/2019
Collection Date: 11/27/2019
Report Date: 12/05/2019

Specimen Type: Extract
Description: CRUDE OIL
Extracted From: BaOx
Method: SOP-3

Initial Gross Weight: 66903.00(mg)
Specimen Weight: 51.97(mg)

Potency - 11 (HPLC)

Analyte	Result (mg/g)	(%)	LOQ (%)	Analyte	Result (mg/g)	(%)	LOQ (%)	Analyte	Result (mg/g)	(%)	LOQ (%)
CBC	19.910	1.991	0.001	CBD	356.400	35.640	0.001	CBDA	295.300	29.530	0.001
CBDV		ND	0.001	CBG	14.590	1.459	0.001	CBGA	15.600	1.560	0.001
CBN		ND	0.001	Delta-8-THC		ND	0.001	Delta-9-THC	23.770	2.377	0.001
THCA-A	2.120	0.212	0.001	THCV		ND	0.001	Total CBD	615.378	61.538	0.001
Total THC	25.629	2.563	0.001								

Pesticides (Passed) (LCMS/MS)

Analyte	Action Level (ppb)	Result (ppb)	LOQ (ppb)	Analyte	Action Level (ppb)	Result (ppb)	LOQ (ppb)	Analyte	Action Level (ppb)	Result (ppb)	LOQ (ppb)
Abamecitin	100.000	<LOQ	30.000	Acephate	100.000	<LOQ	30.000	Acequinocyl	100.000	<LOQ	48.000
Acetamiprid	100.000	<LOQ	30.000	Aldicarb	50.000	<LOQ	30.000	Azoxystrobin	50.000	<LOQ	30.000
Bifenazate	100.000	<LOQ	30.000	Bifenthrin	100.000	<LOQ	30.000	Chlorfenapyr	50.000	<LOQ	30.000
Chlorpyrifos	100.000	<LOQ	30.000	Clofentezine	200.000	<LOQ	30.000	Coumaphos	50.000	<LOQ	30.000
Cyfluthrin	100.000	<LOQ	30.000	Cypermethrin	500.000	<LOQ	30.000	Daminozide	500.000	<LOQ	30.000
DDVP(Dichlorvos)	100.000	<LOQ	30.000	Diazinon	50.000	<LOQ	30.000	Dimethoate	50.000	<LOQ	30.000
Dimethomorph	50.000	<LOQ	30.000	Ethoprop(hos)	50.000	<LOQ	30.000	Etofenprox	50.000	<LOQ	30.000
Etoxazole	50.000	<LOQ	30.000	Fenhexamid	100.000	<LOQ	30.000	Fenoxycarb	50.000	<LOQ	30.000
Fipronil	50.000	<LOQ	30.000	Flonicamid	400.000	<LOQ	30.000	Fludioxonil	100.000	<LOQ	30.000
Hexythiazox	250.000	<LOQ	30.000	Imazalil	100.000	<LOQ	30.000	Imidacloprid	100.000	<LOQ	30.000
Kresoxim Methyl	100.000	<LOQ	30.000	Malathion A	200.000	<LOQ	30.000	Metalaxyl	50.000	<LOQ	30.000
Methiocarb	50.000	<LOQ	30.000	Methomyl	100.000	<LOQ	30.000	Mevinphos	50.000	<LOQ	30.000
Myclobutanil	100.000	<LOQ	30.000	Naled	250.000	<LOQ	30.000	Oxamyl	250.000	<LOQ	30.000
Paclobutrazol	50.000	<LOQ	30.000	Parathion-methyl	100.000	<LOQ	30.000	Pentachloronitrobenzene	150.000	<LOQ	30.000
Permethrin	100.000	<LOQ	30.000	Phosmet	100.000	<LOQ	30.000	Piperonylbutoxide	3,000.000	<LOQ	30.000
Prallethrin	100.000	<LOQ	30.000	Propiconazole	100.000	<LOQ	30.000	Propoxur	100.000	<LOQ	30.000
Pyrethrins	500.000	<LOQ	30.000	Pyridaben	200.000	<LOQ	30.000	Spinetoram	200.000	<LOQ	30.000
Spinosyn A	100.000	<LOQ	30.000	Spinosyn D	100.000	<LOQ	30.000	Spiromesifen	100.000	<LOQ	30.000
Spirotetramat	100.000	<LOQ	30.000	Spiroxamine	50.000	<LOQ	30.000	Tebuconazole	50.000	<LOQ	30.000
Thiacloprid	50.000	<LOQ	30.000	Thiamethoxam	50.000	<LOQ	30.000	Trifloxystrobin	100.000	<LOQ	30.000

Xueli Gao, Ph.D., DABT
Lab Toxicologist

Aixia Sun, D.H.Sc., M.Sc., B.Sc., MT (AAB)
Principal Scientist

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721 Cortaro Drive
Sun City Center, FL - 33573
P: +1 (866) 762-8379
F: +1 (813) 634-4538
E: info@acslabcannabis.com
http://www.acslabcannabis.com
License No. 800025015
CLIA No. 10D1094068

CERTIFICATE OF ANALYSIS

ACS LABORATORY
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CANNABIS & CBD
TESTED SAFE
acslabcannabis.com

Customer: The Spectrum Labs - CANDLER, NC 28715

Order #:709572
Batch #: OSF.CRUDE.2.1
Order Date: 11/27/2019
Collection Date: 11/27/2019
Report Date: 12/05/2019

Specimen Type: Extract
Description: CRUDE OIL
Extracted From: BaOx
Method: SOP-3

Initial Gross Weight: 66903.00(mg)
Specimen Weight: 51.97(mg)

Terpenes - FL (GC/GCMS)

Analyte	Result (mg/g)	(%)	LOQ (%)	Analyte	Result (mg/g)	(%)	LOQ (%)	Analyte	Result (mg/g)	(%)	LOQ (%)
(+)-Cedrol		ND	0.001	(R)-(+)-Limonene		ND	0.001	3-Carene		ND	0.001
Alpha-Bisabolol	1.480	0.148	0.001	alpha-Cedrene	1.980	0.198	0.001	alpha-Humulene	2.860	0.286	0.001
alpha-Phellandrene		ND	0.001	alpha-Pinene		ND	0.001	alpha-Terpinene		ND	0.001
beta-Myrcene	2.220	0.222	0.001	beta-Pinene		ND	0.001	Borneol		ND	0.001
Camphene		ND	0.001	Camphors		ND	0.001	Caryophyllene oxide	5.080	0.508	0.001
cis-Nerolidol		ND	0.001	Eucalyptol		ND	0.001	Farnesene		ND	0.001
Fenchone		ND	0.001	Fenchyl Alcohol	1.510	0.151	0.001	gamma-Terpinene		ND	0.001
Geraniol		ND	0.001	Geranyl acetate		ND	0.001	Guaiol	1.640	0.164	0.001
Hexahydrothymol		ND	0.001	Isoborneol		ND	0.001	Isopulegol		ND	0.001
Linalool		ND	0.001	Nerol		ND	0.001	Ocimene		ND	0.001
Pulegone		ND	0.001	Sabinene		ND	0.001	Sabinene Hydrate		ND	0.001
Terpineol		ND	0.001	Terpinolene		ND	0.001	trans-beta-Ocimene		ND	0.001
trans-Caryophyllene	11.490	1.149	0.001	trans-Nerolidol		ND	0.001	Valencene		ND	0.001

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Order #:709572
Batch #: OSF.CRUDE.2.1
Order Date: 11/27/2019
Collection Date: 11/27/2019
Report Date: 12/05/2019

Specimen Type: Extract
Description: CRUDE OIL
Extracted From: BaOx
Method: SOP-3

Initial Gross Weight: 66903.00(mg)
Specimen Weight: 51.97(mg)

Residual Solvents (Passed) (GC/GCMS)

Analyte	Action Level (ppm)	Result (ppm)	LOQ (ppm)	Analyte	Action Level (ppm)	Result (ppm)	LOQ (ppm)	Analyte	Action Level (ppm)	Result (ppm)	LOQ (ppm)
Acetone	5,000.000	Passed	87.900	Benzene	1.600	<LOQ	1.600	Chloroform	53.000	<LOQ	53.000
Ethanol	5,000.000	Passed	26.700	Hexane	60.000	<LOQ	36.600	I-Butane	5,000.000	<LOQ	100.000
Isopropanol	5,000.000	<LOQ	52.300	Methanol	3,000.000	<LOQ	87.900	N-Butane	5,000.000	<LOQ	200.000
Pentane	5,000.000	<LOQ	389.500	Toluene	890.000	<LOQ	38.400				

Heavy Metals (Passed) (ICP-MS)

Analyte	Action Level (ppb)	Result (ppb)	LOQ (ppb)	Analyte	Action Level (ppb)	Result (ppb)	LOQ (ppb)	Analyte	Action Level (ppb)	Result (ppb)	LOQ (ppb)
Arsenic (As)	500.000	<LOQ	100.000	Cadmium (Cd)	500.000	<LOQ	100.000	Lead (Pb)	500.000	<LOQ	100.000
Mercury (Hg)	500.000	<LOQ	100.000								

Mycotoxins (Passed) (LCMS/MS)

Analyte	Action Level (ppb)	Result (ppb)	LOQ (ppb)	Analyte	Action Level (ppb)	Result (ppb)	LOQ (ppb)	Analyte	Action Level (ppb)	Result (ppb)	LOQ (ppb)
Aflatoxin B1		<LOQ	6.000	Aflatoxin B2		<LOQ	6.000	Aflatoxin G1		<LOQ	6.000
Aflatoxin G2		<LOQ	6.000	Aflatoxin Total	20.000	<LOQ	6.000	Ochratoxin A	20.000	<LOQ	12.000

Pathogenic Microbiology (Passed) (Micro Array)

Analyte	Result	Analyte	Result	Analyte	Result
Aspergillus Flavus	Absence	Aspergillus Fumigatus	Absence	Aspergillus Niger	Absence
Aspergillus Terreus	Absence	Salmonella	Absence	STEC E. Coli	Absence

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