



# LIBERTY NATURAL PRODUCTS, INC.

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

libertynatural.com

## Section 1. Product and Company Identification

<b>Product Name:</b>	Tangerine Cravo Type
<b>Product Code:</b>	211
<b>Description:</b>	Essential Oil of Tangerine
<b>Product Use:</b>	Industrial
<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>	N/A
<b>Health Risks:</b>	H304 May be fatal if swallowed and enters airways
<b>Eye Contact:</b>	N/A
<b>Skin Contact:</b>	H315 Causes skin irritation. H317 May cause an allergic skin reaction.
<b>Environmental:</b>	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

<b>Chemical Name:</b>	<i>Citrus Reticulata var. Tangerine</i>
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<b>Physical State:</b>	Liquid.
<b>CAS#:</b>	8008-31-9
<b>Impurities:</b>	None.
<b>Trade Secret Claim:</b>	None.

#### Section 4. First Aid Measures

<b>Eyes:</b>	Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
<b>Skin Contact:</b>	Immediately wash with water and soap and rinse thoroughly. If skin irritation continues, consult a doctor. Remove contaminated cloths.
<b>Inhalation:</b>	Supply fresh air. In case of unconsciousness place patient stably in side position for transportation.
<b>Ingestion in excess:</b>	Drink copious amounts of water and provide fresh air. Immediately call a doctor.
<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: CO2, sand, extinguishing powder NON SUITABLE: Water.
<b>Special Fire-Fighting Procedure:</b>	None
<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>	Protect skin and eyes.

#### Section 6. Accidental Release Measures

<b>Personal Precautions:</b>	Follow company emergency procedures. Wear protective equipment and keep unprotected persons away. Keep away from ignition sources. Ensure area is well ventilated and avoid contact with eyes and mucous.
<b>Environmental Precautions:</b>	Do not dispose in sewer or in any natural environment.
<b>Containment:</b>	Absorb with clay, sand, or other non-combustible material. Prevent entry into waterways, sewers, and confined areas.
<b>Clean Up:</b>	Disposal must be made according to official regulations. Recover in a tightly sealed container. Wash with plenty of water after complete elimination of the product.

#### Section 7. Handling and Storage

<b>Handling Precautions:</b>	Ensure good ventilation/exhaustion at the workplace. Keep container closed after using.
<b>Storage Precautions:</b>	Keep away from humidity. Store in intact tightly sealed container in dry cool temperatures away from direct sunlight.
<b>Other:</b>	See Section 8

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## Section 8. Exposure Controls/Personal Protection

<b>Engineering Controls:</b>	Keep away from foodstuffs, beverages and feed. Avoid contact with the eyes.
<b>Respiratory Protection:</b>	Assure a good ventilation of work place. Use suitable respiratory protective device in case of insufficient ventilation.
<b>Hand Protection:</b>	Plastic or synthetic rubber impermeable gloves
<b>Eye Protection:</b>	Goggles give complete protection to eyes. Keep eyewash bottle with clean water handy.
<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>	Follow your company policy.
<b>OSHA Permissible Exposure Limits (PELs):</b>	N/A
<b>ACGIH Threshold Limit Values:</b>	N/A

## Section 9. Physical and Chemical Properties

<b>Appearance:</b>	Yellowish green to yellowish orange
<b>Upper/Lower Flammability:</b>	N/A
<b>Odor:</b>	Fresh, "orange-mandarin" odor
<b>Vapor Pressure:</b>	~0.9 mm Hg at 20°C
<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>	120.2°F / 49°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>	0.8431 at 25°C

## Section 10. Stability and Reactivity

<b>Stability:</b>	Stable under normal circumstances. Avoid heat and ignition sources.
<b>Avoid:</b>	Excessive heat.
<b>Incompatibility:</b>	Undetermined
<b>Hazardous Byproducts:</b>	None in normal conditions
<b>Other:</b>	None

## Section 11. Toxicological Information

<b>Toxicological and Health Effects:</b>	Aspiration hazard
<b>Likely Routes of Exposure:</b>	Eyes, nose, mouth, skin.
<b>Signs and Symptoms of Exposure:</b>	See Section 2.

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LD50 median lethal dose:	N/A
Listed NTP Carcinogen:	N/A
INGESTION:	N/A

### Section 12. Ecological Information

TOXICITY:	Adopt good working practices, so that the product is not released into the environment.
PERSISTENCE/ DEGRADABILITY:	No information available.
BIOACCUMULATION POTENTIAL:	No information available.
RESULTS OF PBT AND vPvB ASSESSMENT:	No information available.
MOBILITY IN SOIL:	Do not allow product to reach ground water, water course or sewage system.
OTHER ADVERSE EFFECTS:	N/A

### Section 13. Disposal Considerations

Disposal Containers:	To comply with the regulations and prefectural orders in use. Throwing out forbidden. Packaging must be well emptied.
Waste Disposal:	N/A
Special Considerations:	Must be specially treated adhering to official regulations.

### Section 14. Transport Information

UN Number:	UN 1169
UN Shipping Name:	Extracts, Aromatic, Liquid
Transport Hazard Class:	3
Packing Group Number:	III
Stowage and Handling:	N/A

### Section 15. Regulatory Information

Product Regulations:	N/A
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### 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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