

# Palette Naturals®

## SAFETY DATA SHEET (In accordance with 29 CFR 1910.1200)

### CITRUS A

Safety Data Sheet generated: 8/1/2017

## 1. IDENTIFICATION

### Product identifier

Mixture identification:

Trade name: CITRUS A

### Other means of identification:

Trade code: Palette Naturals® 100% natural perfumery blending accords

### Recommended use of the chemical and restrictions on use

Recommended use: Intended to be used in the manufacture of products for consumers.

Restrictions on use: Data not available

### Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party

Company: Palette Naturals®  
25 NW 23rd Place, Suite 6 #397  
Portland, OR 97210  
Phone: (503)860-3112  
e-mail contact: info@palettenaturals.com

### Emergency telephone number

USA: 1-800-222-1222

CHEMTREC 1800-424-9300 (USA), 1703-527-3887(OUTSIDE USA)

## 2. HAZARD(S) IDENTIFICATION



### Classification of the chemical

#### Classification of the chemical

Flam. Liq. 3	Flammable liquid and vapour.
Skin Irrit. 2	Causes skin irritation.
Eye Irrit. 2A	Causes serious eye irritation.
Skin Sens. 1B	May cause an allergic skin reaction.
Asp. Tox. 1	May be fatal if swallowed and enters airways.
Aquatic Acute 1	Very toxic to aquatic life.
Aquatic Chronic 1	Very toxic to aquatic life with long lasting effects.

### Label elements

#### Symbols:



Danger

Code	Description
H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

Code	Description
P210	Keep away from heat/sparks/open flames/hot surfaces. — No smoking.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor/...
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P331	Do NOT induce vomiting.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.

**Ingredient(s) with unknown acute toxicity:**

None

**Hazards not otherwise classified identified during the classification process:**

None

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

**Substances**

Data not available

**Mixtures**

Hazardous components within the meaning of 29 CFR 1910.1200 and related classification:

**List of components**

Qty	Name	Ident. Numb.	Classification	Registration Number
30-100 %	D-LIMONENE	CAS:5989-27-5 EC:227-813-5 Index:601-029-00-7	Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Sens. 1B, H317; Skin Irrit. 2, H315	01-211959223-47/-
10-20 %	LINALYL ACETATE	CAS:115-95-7 EC:204-116-4	Skin Irrit. 2, H315; Eye Irrit. 2A, H319	01-2119454789-19 / -
1-5 %	LINALOOL	CAS:78-70-6 EC:201-134-4	Flam. Liq. 4, H227; Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1B, H317; Aquatic Acute 3, H402	01-2119474016-42/-
1-5 %	BETA-PINENE	CAS:127-91-3 EC:204-872-5	Flam. Liq. 3, H226; Asp. Tox. 1, H304; Skin Irrit. 2, H315; Skin Sens. 1B, H317; Aquatic Chronic 1, H410; Aquatic Acute 1, H400	
1-5 %	MYRCENE	CAS:123-35-3 EC:204-622-5	Asp. Tox. 1, H304; Flam. Liq. 3, H226; Skin Irrit. 2, H315; Eye Irrit. 2A, H319	
0.1-1 %	CITRAL	CAS:5392-40-5 EC:226-394-6 Index:605-019-00-3	Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317; Aquatic Acute 2, H401	01-2119462829-23 / -

**4. FIRST AID MEASURES**

**Description of first aid measures**

In case of skin contact:

- Immediately take off all contaminated clothing.
- Remove contaminated clothing immediately and dispose off safely.
- After contact with skin, wash immediately with soap and plenty of water.

In case of eyes contact:

- After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.
- Protect uninjured eye.

In case of Ingestion:

- Do not induce vomiting, get medical attention showing the MSDS and label hazardous.

In case of Inhalation:

- Remove casualty to fresh air and keep warm and at rest.

**Most important symptoms/effects, acute and delayed**

- Eye irritation
- Eye damages
- Skin Irritation
- Erythema

**Indication of any immediate medical attention and special treatment needed**

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

**5. FIRE-FIGHTING MEASURES**

**Extinguishing media**

Suitable extinguishing media:

- CO2 or Dry chemical fire extinguishe.

**Unsuitable extinguishing media:**

None in particular.

**Specific hazards arising from the chemical**

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

Hazardous combustion products: Data not available

Explosive properties: Data not available

Oxidizing properties: Data not available

**Special protective equipment and precautions for fire-fighters**

Use suitable breathing apparatus .

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

**6. ACCIDENTAL RELEASE MEASURES****Personal precautions, protective equipment and emergency procedures**

Wear personal protection equipment.

Remove all sources of ignition.

Remove persons to safety.

See protective measures under point 7 and 8.

**Methods and material for containment and cleaning up**

Suitable material for taking up: absorbing material, organic, sand

Wash with plenty of water.

**7. HANDLING AND STORAGE****Precautions for safe handling**

Avoid contact with skin and eyes, inhalation of vapours and mists.

Don't use empty container before they have been cleaned.

Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.

Contaminated clothing should be changed before entering eating areas.

Do not eat or drink while working.

See also section 8 for recommended protective equipment.

**Conditions for safe storage, including any incompatibilities**

Store in a tightly closed container in a cool, dry, well-ventilated area, Away from heat sources.

Storage temperature: Data not available

Store at below 20 °C. Keep away from unguarded flame and heat sources. Avoid direct exposure to sunlight.

Keep away from unguarded flame, sparks, and heat sources. Avoid direct exposure to sunlight.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Cool and adequately ventilated.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Control parameters****Community Occupational Exposure Limits (OEL)**

Component	OEL Type	Country	Ceiling	Long Term mg/m3	Long Term ppm	Short Term mg/m3	Short Term ppm
D-LIMONENE	MAK					28	5
BETA-PINENE	ACGIH						20
CITRAL	ACGIH						5

Appropriate engineering controls: Data not available

**Individual protection measures**

Eye protection:

Use close fitting safety goggles, don't use eye lens.

Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

Protection for hands:

Use protective gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber.

Respiratory protection:

Data not available

**9. PHYSICAL AND CHEMICAL PROPERTIES**

## Information on basic physical and chemical properties

Physical State Liquid  
Appearance and colour: & Colourless to yellow  
Odor: Conform  
Odour threshold: Data not available  
pH: Data not available  
Melting point / freezing point: Data not available  
Initial boiling point and boiling range: Data not available  
Flash point: 55.3 °C (131.5 °F)  
Evaporation rate: Data not available  
Upper/lower flammability or explosive limits: Data not available  
Vapour density: Data not available  
Vapour pressure: Data not available  
Relative density: 0.93 g/ml  
Solubility in water: Data not available  
Solubility in oil: Data not available  
Partition coefficient (n-octanol/water): Data not available  
Auto-ignition temperature: Data not available  
Decomposition temperature: Data not available  
Viscosity: Data not available  
Explosive properties: Data not available  
Oxidizing properties: Data not available  
Solid/gas flammability: Data not available  
Specific Gravity @20°C = 0.9280  
Refractive Index = 1.4604

## Other information

Substance Groups relevant properties Data not available  
Miscibility: Data not available  
Fat Solubility: Data not available  
Conductivity: Data not available

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## 10. STABILITY AND REACTIVITY

### Reactivity

Stable under normal conditions

### Chemical stability

Data not Available.

### Possibility of hazardous reactions

None.

### Conditions to avoid

Stable under normal conditions.

### Incompatible materials

Avoid contact with combustible materials. The product could catch fire.

### Hazardous decomposition products

None.

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## 11. TOXICOLOGICAL INFORMATION

### Information on toxicological effects

#### Toxicological information of the mixture:

There is no toxicological data available on the mixture. Consider the individual concentration of each component to assess toxicological effects resulting from exposure to the mixture.

#### Toxicological information on main components of the mixture:

D-LIMONENE	LD50 Oral Rat = 4400mg/kg LD50 Skin Rabbit > 2000mg/kg
LINALYL ACETATE	LD50 Oral Rat = 13934mg/kg
LINALOOL	LC50 Inhalation Mouse = 3.2mg/l 1h LD50 Oral Rat = 2790mg/kg LD50 Skin Rat = 5610mg/kg

BETA-PINENE	LD50 Oral Rat = 4700mg/kg
MYRCENE	LD50 Oral Rat > 5g/kg LD50 Skin Rabbit > 5g/kg
CITRAL	LD50 Oral Rat = 4950mg/kg LD50 Skin Rabbit = 2250mg/kg LD50 Skin Rat > 2000mg/kg

If not differently specified, the information required in the regulation and listed below must be considered as N.A.

- a) acute toxicity
- b) skin corrosion/irritation
- c) serious eye damage/irritation
- d) respiratory or skin sensitisation
- e) germ cell mutagenicity
- f) carcinogenicity
- g) reproductive toxicity
- h) STOT-single exposure
- i) STOT-repeated exposure
- j) aspiration hazard

Substance(s) listed on the IARC Monographs:

None

Substance(s) listed as OSHA Carcinogen(s):

None

Substance(s) listed as NIOSH Carcinogen(s):

None

Substance(s) listed on the NTP report on Carcinogens:

D-LIMONENE  
MYRCENE  
CITRAL

## 12. ECOLOGICAL INFORMATION

### Toxicity

Adopt good working practices, so that the product is not released into the environment.

Eco-Toxicological Information:

#### List of Eco-Toxicological properties of the components

Quantity	Component	Ident. Numb.	Ecotox Data
30-100 %	D-LIMONENE	CAS: 5989-27-5 - EINECS: 227-813-5 - 67-548-EC: 601-029-00-7	LC50 Fish Pimephales promelas= 0.619mg/L 96 Hr flow-through 0.619-0.79  LC50 Fish Oncorhynchus mykiss= 35mg/L 96 Hr EC50 Daphnia 69.90000mg/L 48h
1-5 %	LINALOOL	CAS: 78-70-6 - EINECS: 201-134-4	EC50 Daphnia Daphnia magna= 20mg/L 48 Hr  EC50 Algae Desmodesmus subspicatus= 88.3mg/L 96 Hr LC50 Fish Leuciscus idus= 22mg/L 96 Hr static 22-4
0.1-1 %	CITRAL	CAS: 5392-40-5 - EINECS: 226-394-6 - 67-548-EC: 605-019-00-3	EC50 Daphnia Daphnia magna= 7mg/L 48 Hr  EC50 Algae Desmodesmus subspicatus= 16mg/L 72H LC50 Fish Leuciscus idus= 4.6mg/L 96 Hr static 4.6-1

### Persistence and degradability

Data not available

### Bioaccumulative potential

Data not available

#### **Mobility in soil**

Data not available

#### **Other adverse effects**

Data not available

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### **13. DISPOSAL CONSIDERATIONS**

#### **Waste treatment methods**

Any disposal practice must be in compliance with local, state and federal laws and regulations (contact local or state environmental agency for specific rules). Do not dump into sewers, any body of water or onto the ground.

Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force.

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### **14. TRANSPORT INFORMATION**

#### **UN number**

ADR-UN number: 1169

DOT-UN Number: N/A

IATA-Un number: 1169

IMDG-Un number: 1169

#### **UN proper shipping name**

ADR-Shipping Name: EXTRACTS, AROMATIC, LIQUID

DOT Proper Shipping Name: N/A

IATA-Technical name: EXTRACTS, AROMATIC, LIQUID

IMDG Technical Name: EXTRACTS, AROMATIC, LIQUID

#### **Transport hazard class(es)**

ADR-Class: 3

DOT Hazard Class: N/A

IATA-Class: 3

IMDG-Class: 3

#### **Packing group**

ADR-Packing Group: III

ADR exempt: N/A

IATA-Packing group: III

IMDG-Packing group: III

#### **Environmental hazards**

Marine pollutant: Yes

Environmental Pollutant: Data not available

#### **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

Data not available

#### **Special precautions**

Department of Transportation (DOT):

DOT-Special Provision(s): N/A

DOT Label(s): N/A

DOT Symbol: N/A

DOT Cargo Aircraft: N/A

DOT Passenger Aircraft: N/A

DOT Bulk: N/A

DOT Non-Bulk: N/A

\*Note: In containers of 119 gallons or less, this product is not regulated by D.O.T. - Ground Transportation

Road and Rail (ADR-RID):

ADR exempt: No

ADR-Label: 3

ADR - Hazard identification number: -

ADR Tunnel Restriction Code: (E)

Air (IATA):

IATA-Passenger Aircraft: 355

IATA-Cargo Aircraft: 366

IATA-Label: 3

IATA-Subrisk: -

IATA-Erg: 3L

IATA-Special Provisions: A3

Sea (IMDG):

IMDG-Stowage Code: Category A

IMDG-Stowage Note: -

IMDG-Subrisk: -

IMDG-Special Provisions: 223 955

IMDG-Page: N/A

IMDG-Label: N/A

IMDG-EMS: F-E, S-D

IMDG-MFAG: N/A

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## 15. REGULATORY INFORMATION

### USA - Federal regulations

#### TSCA - Toxic Substances Control Act

##### TSCA inventory:

All the components are listed on the TSCA inventory

##### TSCA listed substances:

D-LIMONENE	is listed in TSCA	8B
LINALYL ACETATE	is listed in TSCA	8B
LINALOOL	is listed in TSCA	8B
BETA-PINENE	is listed in TSCA	8B
MYRCENE	is listed in TSCA	8B
CITRAL	is listed in TSCA	8B

#### SARA - Superfund Amendments and Reauthorization Act

##### Section 302 - Extremely Hazardous Substances:

no substances listed

##### Section 304 - Hazardous substances:

no substances listed

##### Section 313 - Toxic chemical list:

no substances listed

#### CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act

##### Substance(s) listed under CERCLA:

no substances listed

#### CAA - Clean Air Act

##### CAA listed substances:

no substances listed

#### CWA - Clean Water Act

##### CWA listed substances:

no substances listed

### USA - State specific regulations

#### California Proposition 65

##### Substance(s) listed under California Proposition 65:

MYRCENE	Listed as carcinogen
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#### Massachusetts Right to know

##### Substance(s) listed under Massachusetts Right to know:

no substances listed

#### Pennsylvania Right to know

##### Substance(s) listed under Pennsylvania Right to know:

no substances listed

## New Jersey Right to know

### Substance(s) listed under New Jersey Right to know:

no substances listed

## 16. OTHER INFORMATION

Code	Description
H226	Flammable liquid and vapour.
H227	Combustible liquid
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H400	Very toxic to aquatic life.
H401	Toxic to aquatic life
H402	Harmful to aquatic life
H410	Very toxic to aquatic life with long lasting effects.

Safety Data Sheet dated: 8/1/2017 - version 2

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality. The information relates only to the specific material and may not be valid for such material used in combination with any other material or in any process.

This document was prepared by a competent person who has received appropriate training.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.

### Additional classification information



HMIS Health: 0 = Minimal Hazard

HMIS Flammability: 2 = MODERATE

HMIS Reactivity: 0 = Minimal Hazard

HMIS P.P.E.: B = Safety Glasses + Gloves

NFPA Health: 0 = No hazard.

NFPA Flammability: 3 = Can be ignited under almost all ambient temperature conditions.

NFPA Reactivity: 0 = Stable.

NFPA Special Risk: NONE

OSHA Flammability: Combustible liquid - Class II

### Legend to abbreviations and acronyms used in the safety data sheet:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.

IMDG: International Maritime Code for Dangerous Goods.

IATA: International Air Transport Association.

IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

ICAO: International Civil Aviation Organization.

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).

GHS: Globally Harmonized System of Classification and Labeling of Chemicals.

CLP: Classification, Labeling, Packaging.

EINECS: European Inventory of Existing Commercial Chemical Substances.

INCI: International Nomenclature of Cosmetic Ingredients.

CAS: Chemical Abstracts Service (division of the American Chemical Society).

GefStoffVO: Ordinance on Hazardous Substances, Germany.

LC50: Lethal concentration, for 50 percent of test population.

LD50: Lethal dose, for 50 percent of test population.

DNEL: Derived No Effect Level.

PNEC: Predicted No Effect Concentration.

TLV: Threshold Limiting Value.



TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).

STEL: Short Term Exposure limit.

STOT: Specific Target Organ Toxicity.

WGK: German Water Hazard Class.

KSt: Explosion coefficient.

y for the damage.