

Safety Data Sheet

LEMON DROP HYBRID TERP FLAVOR



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1. Identification

1.1 Product Identifier

Trade Name or Designation Trade Secret, Proprietary Botanical Blend: LEMON DROP HYBRID TERP FLAVOR
Brand True Terpenes
CAS No. Mixture

1.2 Recommended Use and Restrictions on Use

This product is intended for use only by adults 21 or older. This product is not to be used with tobacco or nicotine products. Consumers should determine and conduct their own safety standards and testing. Avoid contact with the skin, eyes, wood surfaces and fabrics. Keep out of the reach of children and pets. Do not use if you are pregnant, nursing or a person with or at risk of serious health conditions including but not limited to: heart disease, high blood pressure, diabetes or a person taking medicine for depression or asthma. Smoking and vaping may cause health problems. Discontinue use and consult your doctor if and adverse reaction occurs. This is not a smoking cessation product. This product has not been evaluated for safe use in e-cigarettes or any vaping application where the product(s) is/are intentionally vaporized and inhaled.

1.3 Company Information

Company True Terpenes
Address 2416 N Hayden Island Dr.
Portland, OR 97217 USA
Telephone (888) 954-8550
Website TrueTerpenes.com

1.4 Emergency Contact

CHEMTREC (USA) 800-424-9300
CHEMTREC (International) 1+ 703-527-3887

2. Hazard(s) Identification

2.1 Classification of the Substance or Mixture

For the full text of the Hazard Statements listed below, see Section 16.

| Hazard Class | Category | Hazard Statement | Precautionary Statements |
|------------------------------------------------|-------------|------------------|----------------------------------------------------------------------------------|
| Flammable Liquids | Category 3 | H226 | P201, P210, P220, P233, P240, P242, P243, P270, P280, P370+P378, P371+P380, P381 |
| Skin Corrosion / Irritation | Category 2 | H315 | P262, P264, P280, P302+P352, P332+P313, P362, P363 |
| Skin Sensitizer | Category 1 | H317 | P262, P264, P280, P302+P352, P332+P313, P362, P363 |
| Eye Damage / Irritation | Category 2A | H319 | P262, P280, P305+P351+P338, P337+P313 |
| Aspiration Hazard | Category 1 | H304 | P261, P280, P304+P340, P342+P311 |
| Acute toxicity, Oral | Category 4 | H302 | P201, P264, P270, P280, P301+P312+P330 |
| Acute toxicity, Inhalation | Category 4 | H332 | P201, P261, P280, P271, P304 + P340 + P312 |
| Hazardous to the Aquatic Environment (Acute) | Category 1 | H400 | P201, P233, P273, P501 |
| Hazardous to the Aquatic Environment (Chronic) | Category 1 | H410 | P201, P233, P273, P501 |



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2.2 GHS Label Elements

Pictograms



Signal Word

Danger

Hazard Statements

Hazard Number

Hazard Statement

| | |
|------|-------------------------------------------------------|
| H226 | Flammable liquid and vapor. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H304 | May be fatal if swallowed and enters airways . |
| H410 | Very toxic to aquatic life with long lasting effects. |

Precautionary Statements

Precautionary Number

Precautionary Statement

| | |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------|
| P201 | Obtain special instructions before use. |
| P202 | Do not handle until all safety precautions have been read and understood. |
| P210 | Keep away from heat, sparks and open flame. No smoking. |
| P220 | Keep/Store away from clothing/.../combustible materials. |
| P233 | Keep container tightly closed. |
| P240 | Ground/bond container and receiving equipment. |
| P241 | Use explosion-proof electrical/ventilating/lighting equipment. |
| P242 | Use only non-sparking tools. |
| P243 | Take precautionary measures against static discharge. |
| P260 | Do not breathe fumes, mist, vapors, or spray. |
| P261 | Avoid breathing dust, fumes, gas, mist, vapors, or spray. |
| P262 | Do not get in eyes, on skin, or on clothing. |
| P264 | Wash skin thoroughly after handling. |
| P270 | Do not eat, drink or smoke when using this product. |
| P271 | Use only outdoors or in a well-ventilated area. |
| P272 | Contaminated work clothing must not be allowed out of the workplace. |
| P273 | Avoid release to the environment. |
| P280 | Wear protective gloves, eye protection and skin protection. |
| P301 + P312 + P330 | IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth. |
| P302+P352 | IF ON SKIN: Wash with plenty of soap and water. |
| P303+P361+P353 | IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. |
| P304 + P340 + P312 | IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell. |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P308+P311 | IF exposed or concerned: Call a POISON CENTER or physician. |



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| | |
|-------------|--------------------------------------------------------------------------|
| P308+P313 | IF exposed or concerned: Get medical attention. |
| P330 | Rinse mouth. |
| P331 | Do NOT induce vomiting. |
| P333+P313 | If skin irritation occurs: Get medical attention. |
| P337+P313 | If eye irritation persists: Get medical attention. |
| P342+P311 | If experiencing respiratory symptoms: Call a POISON CENTER or physician. |
| P362 | Take off contaminated clothing. |
| P363 | Wash contaminated clothing before reuse. |
| P370+P378 | In case of fire: Use dry chemical, foam or carbon dioxide to extinguish. |
| P371+P380 | In case of major fire and large quantities: Evacuate area. |
| P381 | Eliminate all ignition sources if safe to do so. |
| P403 + P233 | Store in well-ventilated place. Keep container tightly closed. |
| P403+P235 | Store in a well-ventilated place. Keep cool. |
| P405 | Store locked up. |
| P501 | Dispose of contents/container to an approved waste disposal plant. |

2.3 Hazard(s) not Otherwise Classified (HNOC) - none.

3. Composition / Information on Ingredients

3.1 Components of Substance or Mixture

| Chemical Name | Formula | Molecular Weight | CAS Number | EC Number |
|----------------|---------|------------------|------------|-----------|
| Limonene | C10H16 | 136.23 | 5989-27-5 | 227-813-5 |
| Lemon Terpenes | Mixture | Mixture | 68917-33-9 | Mixture |

Contains other natural and artificial ingredients.

Specific chemical identities and/or exact percentage (concentration) of composition has been withheld as a trade secret.

Hazardous Components

| Component | Classification |
|----------------|-----------------------------------------------------------------------------------------------------------------|
| Limonene | Flam.liq.3; Skin Irrit 2,1; Asp. Tox. 1; Aquatic Acute 1; Aquatic Chronic 1; H226, H315, H317, H304; H400, H410 |
| Lemon Terpenes | Flam.Liq.3; Skin Irrit 2,1; Asp. Tox. 1; H226, H315, H317, H304 |



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4. First-Aid Measures

4.1 General First Aid Information

- General Advice** Move out of dangerous area. Consult a physician. Show this safety data sheet to the doctor in attendance.
- If inhaled** If breathed in, move person to fresh air and keep comfortable for breathing. If not breathing, give artificial respiration. Consult a physician.
- In case of eye contact** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate immediately with large quantities of water for at least 15 minutes. Consult a physician.
- In case of skin contact** Take off immediately all contaminated clothing. Rinse skin thoroughly with plenty of water for at least 15 minutes and consult a physician.
- If swallowed** Do not induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth out with water. Consult a physician.

4.2 Most Important Symptoms / Effects, Acute and Delayed

The most important known symptoms and effects are described in the labeling (see section 2.2) and/or in section 11.

4.3 Indication of any medical attention or special treatment needed

No data available.

5. Fire-Fighting Measures

5.1 Extinguishing Media

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.

5.2 Specific Hazards Arising from the Substance or Mixture

Carbon oxides

5.3 Special Protective Equipment for Firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further Information

Use water spray to cool unopened containers.

6. Accidental Release Measures

6.1 Personal Precautions, Protective Equipment and Emergency Procedures

Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. For personal protection see section 8.

6.2 Environmental Precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.



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6.3 Cleanup and Containment Methods and Materials

Remove all sources of ignition. Contain spill. Absorb with suitable inert material (vermiculite, dry sand, etc) and place in a chemical waste container for proper disposal in an approved waste disposal facility. Ventilate area of spill. Have extinguishing agent available in case of fire. Use non-sparking tools and equipment.

6.4 Reference to Other Sections

For disposal see section 13.

7. Handling and Storage

7.1. Precautions for Safe Handling and Storage Conditions

Keep container tightly closed in a dry, cool and well-ventilated place. Store in a well-ventilated place. As with all chemicals, wash hands thoroughly after handling. Avoid contact with eyes and skin. Protect from freezing and physical damage. Store in secure, flammable storage area away from all sources of ignition. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Stored class (TRGS 510): 10: Combustible liquids. Empty containers may be hazardous since they retain product residues.

8. Exposure Controls / Personal Protection

8.1 Control Parameters

Components with workplace control parameters

| Component | CAS Number | Value | Control Parameters | Basis | Remarks |
|--------------|------------|-------|--------------------|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| D-Limonene | 5989-27-5 | TWA | 20 ppm | USA. ACGIH Threshold Limit Value (TLV) | Central Nervous System impairment Upper Respiratory Tract irritation Lung damage Skin irritation Adopted values or notations enclosed are those for which changes are proposed in the NIC See Notice of Intended Changes (NIC) Not classifiable as a human carcinogen Sensitizer varies |
| Alpha Pinene | 80-56-8 | TWA | 20 ppm | USA. ACGIH Threshold Limit Value (TLV) | Central Nervous System impairment Upper Respiratory Tract irritation Lung damage Skin irritation Adopted values or notations enclosed are those for which changes are proposed in the NIC See Notice of Intended Changes (NIC) Not classifiable as a human carcinogen Sensitizer Varies Dermal Sensitization Lung irritation |

8.2. Exposure Controls



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Engineering Controls

Handle in accordance with good industrial hygiene and safety practice.

Personal Protective Equipment (PPE)

Eye/face Protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) and EN 166 (EU).

Skin Protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact

Material: butyl-rubber

Minimum layer thickness: 0.3 mm

Break through time: 480 min

Material tested: Butoject® (KCL 897 / Aldrich Z677647, Size M)

Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0.4 mm

Break through time: 30 min

Material tested: Camatril® (KCL 730 / Aldrich Z677442, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection

Complete suit protecting against chemicals. Flame retardant antistatic protective clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory Protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of Environmental Exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9. Physical and Chemical Properties

9.1. Basic Physical and Chemical Properties

Appearance

Clear, colorless to pale yellow liquid

Physical State

Liquid

Odor

Sweet, Lemon, Citrus



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| | |
|------------------------------------------------|---------------------|
| Odor 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 | Data not available. |
| Evaporation Rate | Data not available. |
| Flammability | Data not available. |
| Flammability / Explosive Limits | Data not available. |
| Vapor Pressure | Data not available. |
| Vapor Density | Data not available. |
| Relative Density | 0.85 at 25°C |
| Solubility (Water) | Insoluble |
| Partition Coefficient | 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. |

10. Stability and Reactivity

10.1. Reactivity

Data not available.

10.2. Chemical Stability

Stable under normal conditions of use, storage and transport.

10.3. Possibility of Hazardous Reactions

Data not available.

10.3. Conditions to Avoid

Heat, flames and sparks.

10.4. Incompatible Materials

Acids, Bases, Oxidizing agents, Reducing agents

10.4. Hazardous Decomposition Products

Hazardous decomposition products formed under fire conditions - Carbon oxides

Other decomposition products- Data not available

In the event of fire: see section 5

11. Toxicological Information

11.1. Information on Toxicological Effects

Acute Toxicity - Oral Exposure

Data not available.

Acute Toxicity - Dermal Exposure



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Data not available.

Acute Toxicity - Inhalation Exposure

Data not available.

Acute Toxicity - Other Information

Data not available.

Skin Corrosion and Irritation

Data not available.

Serious Eye Damage and Irritation

Data not available.

Respiratory Sensitization

Data not available.

Skin Sensitization

Data not available.

Germ Cell Mutagenicity

Data not available.

Carcinogenicity

This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification.

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: 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.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive Toxicity

Data not available.

Specific Target Organ Toxicity from Single Exposure

Data not available.

Specific Target Organ Toxicity from Repeated Exposure

Data not available.

Aspiration Hazard

Data not available.

Additional Toxicology Information

Data not available.



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12. Ecological Information

12.1. Toxicity

Data not available.

12.2. Persistence and Degradability

Data not available.

12.3. Bioaccumulative Potential

Data not available.

12.4. Mobility in Soil

Data not available.

12.5. Other Adverse Ecological Effects

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Very toxic to aquatic life with long lasting effects.

13. Disposal Considerations

13.1 Waste Treatment Methods

Product

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging

Dispose of as unused product.

14. Transport Information

14.1 Transportation by Land-Department of Transportation (DOT, United States of America)

| | |
|-----------------------|----------------------------------------------|
| Sizes | 2 mL, 5mL, 15mL, 1 oz, 4 oz, 16 oz, 1 gallon |
| UN Number | UN2319 |
| Proper Shipping Name | Terpene hydrocarbons, n.o.s. |
| Hazard Class | 3 |
| Packing Group | III |
| Hazard Placard Labels | |



14.2 Transportation by Air - International Air Transport Association (IATA)

| | |
|-----------|------------------------------------------------|
| Sizes | 2 mL, 5 mL, 15 mL, 1 oz, 4 oz, 16 oz, 1 gallon |
| UN Number | UN2319 |



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Proper Shipping Name Terpene hydrocarbons, n.o.s.
Hazard Class 3
Packing Group III
Hazard Placard Labels



15. Regulatory Information

15.1 Occupational Safety and Health Administration (OSHA) Hazards

No OSHA hazards.

15.2 Superfund Amendments and Reauthorization Act (SARA) 302 Extremely Hazardous Substances

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

15.3 Superfund Amendments and Reauthorization Act (SARA) 311/312 Hazardous Chemicals

Fire Hazard, Acute Health Hazard, Chronic Health Hazard

15.4 Superfund Amendments and Reauthorization Act (SARA) 313 Toxic Release Inventory (TRI)

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

15.5 Massachusetts Right-to-Know Substance List

α-Pinene CAS#80-56-8
Para Cymene CAS#99-87-6

15.6 Pennsylvania Right-to-Know Hazardous Substances

Limonene CAS#5989-27-5
α-Pinene CAS#80-56-8
Para Cymene CAS#99-87-6
Terpinolene CAS#586-62-9
Carvene CAS#5989-27-5

15.7 New Jersey Worker and Community Right-to-Know Components

Limonene CAS#5989-27-5
α-Pinene CAS#80-56-8
Para Cymene CAS#99-87-6
Terpinolene CAS#586-62-9
Carvene CAS#5989-27-5

15.8 California Proposition 65

WARNING! This product contains Myrcene, a chemical known to the State of California to cause cancer, birth defects, or reproductive harm.

7-Methyl-3-methylenoocta-1,6-diene CAS#123-35-3



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16. Other Information

16.1. Full Text of Hazard Statements referred to under sections 2 and 3.

| | |
|-----------------|-------------------------------------------------------|
| Acute Tox. | Acute Toxicity |
| Eye Irrit. | Eye Irritation |
| Eye Dam. | Serious eye damage |
| Aquatic Acute | Acute aquatic toxicity |
| Aquatic Chronic | Chronic aquatic toxicity |
| Asp. Tox. | Aspiration hazard |
| Flam.liq. | Flammable liquids |
| Skin Irrit. | Skin Irritation |
| Skin Sens. | Skin Sensitisation |
| Resp. Sens. | Respiratory Sensitisation |
| Resp. Sens. | Respiratory sensitisation |
| STOT SE | Specific target organ toxicity-single exposure |
| H226 | Flammable liquid and vapor. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H304 | May be fatal if swallowed and enters airways . |
| H410 | Very toxic to aquatic life with long lasting effects. |

16.2. Miscellaneous Hazard Classes

| | |
|----------------------------------------------------------|----------------|
| Canadian Carcinogenicity Hazard Class | Not Available. |
| Physical Hazards Not Otherwise Classified (PHNOC) | Not Available. |
| Health Hazards Not Otherwise Classified (HHNOC) | Not Available. |
| Biohazardous Infectious Materials Hazard Class | Not Available. |

16.3. National Fire Protection Association (NFPA) Rating

| | |
|--------------------------|---|
| Health Hazard | 2 |
| Fire Hazard | 3 |
| Reactivity Hazard | 0 |

16.4. HMIS Rating

| | |
|------------------------------|---|
| Health | 2 |
| Chronic Health Hazard | * |
| Flammability | 3 |
| Reactivity | 0 |
| Physical Hazard | 0 |

16.5 Document Revision

| | |
|----------------------|------------|
| Issue Date | 11/01/2018 |
| Revision Date | 08/29/2019 |



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Disclaimer

True Terpenes cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available. The above information relates only to this product and not to its use in combination with any other material or any particular process and is designed only as guidance for the safe handling, use, processing, storage, transportation, and disposal and should not be considered as a guarantee or quality specification. This product has not been evaluated for safe use in e-cigarettes or any vaping application where the product(s) is/are intentionally vaporized and inhaled. True Terpenes has performed no testing on these products in e-cig/vaping applications. It is the sole responsibility of the individual(s) purchasing this product to assess its' safety in the final application. The above information relates only to this product and not to its use in combination with any other material or any particular process and is designed only as guidance for the safe handling, use, processing, storage, transportation, disposal, and should not be considered as a guarantee or quality specification. The above information is based on data provided by and collected from recognized sources such as distributors, manufacturers, and technical groups and is considered to be accurate to the best of True Terpenes knowledge as of the date of this document. It is the responsibility of the user to review all safety information about this product and determine its safety and suitability in their own processes and operations. Appropriate warnings and safe handling procedures should be provided to all handlers and users, taking into account the intended use and the specific conditions and factors relating to such use in accordance with all applicable laws and regulations.

Revision Information

This document has undergone significant changes and should be reviewed in its entirety.

