

Safety Data Sheet

ATF PRECISION



Revision Date: 10/11/2019

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1. Identification

1.1 Product Identifier

Trade Name or Designation

Trade Secret, Proprietary Botanical Blend: ATF PRECISION

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. For lawful use only. This product is concentrated and should not be used undiluted. Not for use with tobacco or nicotine. Avoid contact with the skin, eyes, wood surfaces, and fabrics. Keep out of reach of children and pets. Consumers should determine and conduct their own safety standards and testing. The United States Food and Drug Administration, and Center for Disease Control and Prevention, and multiple state governments are investigating numerous instances of severe respiratory illnesses and deaths associated with the use of vaping products. Symptoms include breathing difficulty, shortness of breath, chest pain, mild to moderate gastrointestinal illness, fever, or fatigue. To date, True Terpenes has not received any evidence to suggest that this product has caused any adverse health consequences. Do not use this product 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, respiratory illness, or a person taking medicine for depression or asthma. Discontinue use and consult your doctor if and adverse reaction occurs. This product is not intended to diagnose, treat, cure or prevent any disease. 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. Multiple state governments have banned the sale of flavors, including terpenes, in vaping applications. These laws are in flux.

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



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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

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.
H319	Causes serious eye irritation.
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.



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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.
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
Linalool	C10H18O	154.24	78-70-6	201-134-4
Alpha Pinene	C10H16	136.23	80-56-8	232-087-8
Myrcene	C10H16	136.238	123-35-3	204-622-5
Limonene	C10H16	136.23	5989-27-5	227-813-5
Beta Caryophyllene	C15H24	204.36	87-44-5	201-746-1
Terpinolene	C10H16	136.23	586-62-9	209-578-0
Humulene Alpha	C15H24	204.35	6753-98-6	229-816-7
Beta Pinene	C10H16	136.23	127-91-3	204-872-5

Contains other natural and artificial ingredients.

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



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Hazardous Components

Component	Classification
Linalool	Flam.liq.4; Skin Irrit.2; Eye Irrit.2A; Skin Sens.1; Aquatic Acute 3; H227, H315, H317, H319, H402
Alpha Pinene	Flam.liq.3; Skin Irrit.2; Skin Sens. 1; Asp.Tox. 1; Aquatic Acute 3; Aquatic Chronic 2; H226, H304, H315, H317, H402, H411
Myrcene	Flam.liq.3; Skin Irrit.2; Eye Irrit. 2A; Asp Tox.1; H226, H304, H315, H319
Limonene	Flam.liq.3; Skin Irrit 2,1; Asp. Tox. 1; Aquatic Acute 1; Aquatic Chronic 1; H226, H315, H317, H304; H400, H410
Beta Caryophyllene	Asp. Tox. 1; H304
Terpinolene	Flam.liq.4; Skin Sens. 1B; Asp. Tox.1; Aquatic Acute 1; Aquatic Chronic 1; H227, H304, H317, H410
Humulene Alpha	Flam.liq.4; Skin Irrit 2; Eye Irrit 2A; STOT SE 3; H227, H315, H319, H335
Beta Pinene	Flam.liq.3; Skin Irrit.2; Skin Sens.1; Asp.Tox1; Aquatic Acute 1; Aquatic Chronic 1; H226, H304, H315, H317, H410

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



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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.

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
α -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 Dermal Sensitizer
D-Limonene	5989-27-5	TWA	20 ppm	USA. ACGIH	Central Nervous System impairment



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				Threshold Limit Value (TLV)	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
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8.2. Exposure Controls

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

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



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Environmental Exposure

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	Floral, Earth, Spicy, Sweet
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

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

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Data not available.

Specific Target Organ Toxicity from Repeated Exposure

Data not available.

Aspiration Hazard

Data not available.

Additional Toxicology Information

Data not available.

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



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Hazard Placard Labels



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

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	



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

15.6 Pennsylvania Right-to-Know Hazardous Substances

Linalool CAS#78-70-6

α -Pinene CAS#80-56-8

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

Limonene CAS#5989-27-5

Caryophyllene CAS#87-44-5

p-Mentha-1,4(8)-diene CAS#586-62-9

Humulene CAS#6753-98-6

Beta Pinene CAS#127-91-3

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



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Linalool CAS#78-70-6
α-Pinene CAS#80-56-8
7-Methyl-3-methyleneocta-1,6-diene CAS#123-35-3
Limonene CAS#5989-27-5
Caryophyllene CAS#87-44-5
p-Mentha-1,4(8)-diene CAS#586-62-9
Humulene CAS#6753-98-6
Beta Pinene CAS#127-91-3

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-methyleneocta-1,6-diene CAS#123-35-3

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
Aquatic Acute	Acute aquatic toxicity
Aquatic Chronic	Chronic aquatic toxicity
Asp. Tox.	Aspiration hazard
Flam.liq.	Flammable liquids
Skin Irrit.	Skin Irritation
STOT SE	Specific target organ toxicity-single exposure
H226	Flammable liquid and vapor.
H227	Combustible liquid
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H304	May be fatal if swallowed and enters airways .
H302	Harmful if swallowed
H332	Harmful if inhaled
H335	May cause respiratory irritation
H400	Very toxic to aquatic life.
H401	Toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects.
H411	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.



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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	10/11/2019
Version #	02
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 use, 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 knowledge and experience currently available. To date, True Terpenes has not received any evidence to suggest that this product has caused any adverse health consequences. 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 handling, use, processing, storage, transportation, and disposal. It 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 handling, use, processing, storage, transportation, and 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-based upon current information 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 uses, 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.

