

Safety Data Sheet

Ocimene



Revision Date: 11/02/2018

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1. Identification

Product Description	Ocimene
CAS #	13877-91-3
FEMA Number	3539
True Terpenes Item #	RM10035
Recommended Use	Concentrated aromatic and flavor ingredient which may be used in flavor and fragrance compounds according to legal and IFRA or FEMA GRAS/FDA guidelines.
Recommended Restrictions	For manufacturing use only
Company	True Terpenes (888) 954-8550 TrueTerpenes.com
Emergency Contact	Poison Control Helpline: 1 (800) 222-1222

2. Hazard(s) Identification




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Physical Hazards	Flammable liquids	Category 3
Health Hazards	Not Classified	
Environmental Hazards	Not Classified	
Label Elements	 A diamond-shaped hazard symbol with a red border and a black flame icon in the center, indicating a flammable liquid.	
Signal Word	Warning	
Hazard Statement	Flammable liquid and vapor.	
Precautionary Statement		
Prevention	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Ground and bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use non-sparking tools. Take action to prevent static discharges. Wear protective gloves/protective clothing/eye protection/face protection.	
Response	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. In case of fire: Use appropriate media to extinguish.	
Storage	Store in a well-ventilated place. Keep cool.	
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.	
Hazard(s) not Otherwise Classified (HNOC)	None known.	
Supplemental Information	100% of the mixture consists of component(s) of unknown acute dermal	



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toxicity. 100% of the mixture consists of component(s) of unknown acute inhalation toxicity. 100% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 100% of the mixture consists of component(s) of unknown long-term hazards to the aquatic environment.

3. Composition / Information on Ingredients

Substances

Chemical Name	Common Name and Synonyms	CAS Number	Percent
OCIMENE	1,3,6-Octatriene, 3,7-dimethyl- 3,7-Dimethylocta-1,3,6-triene	13877-91-3	100

4. First-Aid Measures

Inhalation

If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. For breathing difficulties, oxygen may be necessary. Call a physician if symptoms develop or persist.

Skin Contact

Take off immediately all contaminated clothing. Get medical attention if irritation develops and persists. Wash skin thoroughly with soap and water for



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	several minutes.
Eye Contact	Remove contact lenses, if present and easy to do. Get medical attention if irritation develops and persists. Promptly wash eyes with plenty of water while lifting the eye lids.
Ingestion	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.
Most Important Symptoms / Effects, Acute and Delayed	Direct contact with eyes may cause temporary irritation.
Indication of Immediate Medical Attentional and Special Treatment Needed	Not available.
General Advice	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

5. Fire-Fighting Measures

Suitable Extinguishing Media	Water spray, fog, CO ₂ , dry chemical, or alcohol resistant foam.
Unsuitable Extinguishing Media	Do not use a solid water stream as it may scatter and spread fire.
Specific Hazards Arising	Fire may produce irritating, corrosive and/or toxic gases.



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from the Chemical

Special Protective Equipment and Precautions for Firefighters

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Structural firefighters protective clothing will only provide limited protection. Wear self-contained breathing apparatus with a full facepiece operated in the positive pressure demand mode when fighting fires.

Firefighting Equipment / Instructions

In case of fire and/or explosion do not breathe fumes. Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do so without risk. Water runoff can cause environmental damage. Ventilate closed spaces before entering them. Keep run-off water out of sewers and water sources. Dike for water control.

Specific Methods

Use water spray to cool unopened containers.

General Fire Hazards

Static charges generated by emptying package in or near flammable vapor may cause flash fire.

6. Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures

Keep unnecessary personnel away. 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. Eliminate all sources of ignition.

Methods and Materials for Containment and Cleaning 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



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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.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Prevent product from entering drains. Absorb in vermiculite, dry sand or earth and place into containers.

Small Spills: 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. Collect and dispose of spillage as indicated in section 13 of the SDS.

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.

7. Handling and Storage

Precautions for Safe Handling

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.



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Conditions for Safe Storage, Including any Incompatibilities

Keep container closed. Handle containers with care. Open slowly in order to control possible pressure release. Store in a cool, well-ventilated area.

8. Exposure Controls / Personal Protection

Occupational Exposure Limits

This substance has no PEL, TLV, or other recommended exposure limit.

Biological Limit Values

No biological exposure limits noted for the ingredient(s).

Appropriate Engineering Controls

Use explosion-proof ventilation equipment to stay below exposure limits. Adequate ventilation should be provided so that exposure limits are not exceeded.

Individual Protection Measures, Such as Personal Protective Equipment

Eye / Face Protection

Wear safety glasses with side shields (or goggles).

Skin Protection

Hand Protection

Chemical resistant gloves.

Other

Not available.

Respiratory Protection

Respiratory protection not required. If ventilation is insufficient, suitable respiratory protection must be provided.

Thermal Hazards

Wear appropriate thermal protective clothing, when necessary.

General Hygiene Considerations

When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating,



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drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and Chemical Properties

Appearance	Refer to Spec Sheet
Physical State	Liquid
Form	Liquid
Color	Refer to Spec Sheet
Odor	Characteristic
Odor Threshold	Not available
pH	Not available
Melting Point / Freezing Point	Not available
Initial Boiling Point and Boiling Range	350.6 °F (177 °C)
Flash Point	100.0 °F (37.8 °C) Closed Cup
Evaporation Rate	Not available
Flammability (solid, gas)	Not applicable
Upper / Lower Flammability or Explosive Limits	



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Flammability Limit - Lower (%)	Not available
Flammability Limit - Upper (%)	Not available
Explosive Limit - Lower (%)	Not available
Explosive Limit - Upper (%)	Not available
Vapor Pressure	Not available
Vapor Density	Not available
Relative Density	Not available
Solubility(ies)	
Solubility (water)	Insoluble
Partition Coefficient (n-octanol/water)	Not available
Auto-ignition Temperature	Not available
Decomposition Temperature	Not available
Viscosity	Not available
Other Information	
Explosive Properties	Not explosive
Molecular Formula	C ₁₀ H ₁₆
Molecular Weight	136.24 g/mol
Oxidizing Properties	Not oxidizing



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Specific Gravity 0.8 at 25 °C

10. Stability and Reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical Stability	Material is stable under normal conditions.
Possibility of Hazardous Reaction	No dangerous reaction known under conditions of normal use.
Conditions to Avoid	Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials.
Incompatible Materials	Strong oxidizing agents.
Hazardous Decomposition Products	No hazardous decomposition products if stored and handled as indicated.

11. Toxicological Information



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Information on Likely Routes of Exposure

Inhalation	No adverse effects due to inhalation are expected.
Skin Contact	No adverse effects due to skin contact are expected.
Eye Contact	Direct contact with eyes may cause temporary irritation.
Ingestion	Expected to be a low ingestion hazard.

Symptoms Related to the Physical, Chemical and Toxicological Characteristics Direct contact with eyes may cause temporary irritation.

Information on Toxicological Effects

Acute Toxicity Not known.

Product	Species	Test Results
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OCIMENE NATURAL (CAS
13877-91-3)

Acute

Oral LD50	Rat	> 5000 mg/kg
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Skin Corrosion / Irritation Prolonged skin contact may cause temporary irritation.

Serious Eye Damage / Eye Irritation Direct contact with eyes may cause temporary irritation.

Respiratory or Skin Sensitization

Respiratory Sensitization Not a respiratory sensitizer.

Skin Sensitization This product is not expected to cause skin sensitization.



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Germ Cell Mutagenicity No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Carcinogenicity

IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not available.

Reproductive Toxicity This product is not expected to cause reproductive or developmental effects.

Specific Target Organ Toxicity - Single Exposure Not classified.

Specific Target Organ Toxicity - Repeated Exposure Not classified.

Aspiration Hazard Not an aspiration hazard.

12. Ecological Information



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Ecotoxicity	The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.
Persistence and Degradability	No data is available on the degradability of this substance.
Bioaccumulative Potential	No data available.
Mobility in Soil	No data 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.

13. Disposal Considerations

Disposal Instructions	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.
Local Disposal Regulations	Dispose in accordance with all applicable regulations.
Hazardous Waste Code	Not established.
Waste from Residues / Unused Products	Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal



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instructions).

Contaminated Packaging

Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport Information

ADN

UN Number	3295
UN Proper Shipping Name	HYDROCARBONS, LIQUID, N.O.S. (OCIMENE)
Transport Hazard Class(es)	3
Subsidiary Class(es)	-
Packing Group	III
Environmental Hazards	No
Labels Required	3

ADR

UN Number	3295
UN Proper Shipping Name	HYDROCARBONS, LIQUID, N.O.S. (OCIMENE)
Transport Hazard Class(es)	3



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Subsidiary Class(es)	-
Packing Group	III
Environmental Hazards	No
Labels Required	3

RID

UN Number	3295
UN Proper Shipping Name	HYDROCARBONS, LIQUID, N.O.S. (OCIMENE)
Transport Hazard Class(es)	3
Subsidiary Class(es)	-
Packing Group	III
Environmental Hazards	No
Labels Required	3
Special Precautions for User	Read safety instructions, SDS and emergency procedures before handling.

DOT BULK

UN Number	3295
UN Proper Shipping Name	HYDROCARBONS, LIQUID, N.O.S. (OCIMENE)
Hazard Class(es)	3
Packing Group	III
Environmental Hazards	



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Marine Pollutant No

Labels Required 3

DOT NON-BULK

UN Number 3295

UN Proper Shipping Name HYDROCARBONS, LIQUID, N.O.S. (OCIMENE)

Hazard Class(es) 3

Packing Group III

Environmental Hazards

Marine Pollutant No

Labels Required 3

IATA

UN Number 3295

UN Proper Shipping Name HYDROCARBONS, LIQUID, N.O.S. (OCIMENE)

Transport Hazard Class(es) 3

Subsidiary Class(es) -

Packing Group III

Environmental Hazards No

Labels Required 3

IMDG

UN Number 3295



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UN Proper Shipping Name	HYDROCARBONS, LIQUID, N.O.S. (OCIMENE)
Transport Hazard Class(es)	3
Subsidiary Class(es)	-
Packing Group	III
Environmental Hazards	
Marine Pollutant	No
Labels Required	3
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable.
ADN; ADR; DOT BULK; DOT NON-BULK; IATA; IMDG; RID	



15. Regulatory Information

US Federal Regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard



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Communication Standard, 29 CFR 1910.1200.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency Release Notification

Not regulated.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not available.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely Hazardous Substance

Not listed.

SARA 311/312 Hazardous Chemical

Yes

**Classified Hazard
Categories**

Flammable (gases, aerosols, liquids, or solids)

SARA 313 (TRI reporting)

Not regulated.



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Other Federal Regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act (SDWA)

Not regulated.

US State Regulations

California Proposition 65

California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed Substance

Not listed.

International Inventories

Country(s) or Region	Inventory Name	On Inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No



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Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
Taiwan	Taiwan Toxic Chemical Substances (TCS)	No
United States and Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	No

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

*A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other Information

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HMIS® Ratings

Health 1

Flammability 2

Physical Hazard 0

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



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specific conditions and factors relating to such use in accordance with all applicable laws and regulations.

