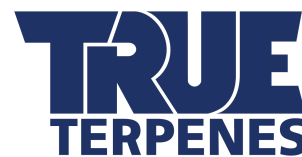


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1. Identification

Product Description	VISCOSITY
CAS #	N/A
FEMA Number	N/A
True Terpenes Item #	RM100041
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

No Classification

Health Hazards

Aspiration Hazard

Category 1

Environmental Hazards

No Classification

Label Elements



Signal Word

Danger

Hazard Statement

May be fatal if swallowed and enters airways.

Precautionary Statement

Prevention

Not available.

Response

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting.

Storage

Store locked up.

Disposal

Dispose of contents/ container to an approved waste disposal plant.

Hazard(s) not Otherwise Classified (HNOC)

None.

Supplemental Information

Not available.



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3. Composition / Information on Ingredients

Substances

Chemical Name	Common Name and Synonyms	CAS Number	Percent
VISCOSITY	Not available	Not available	Not available

4. First-Aid Measures

Inhalation	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
Skin Contact	Wash off with soap and plenty of water. Consult a physician.
Eye Contact	Flush eyes with water as a precaution.
Ingestion	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
Most Important Symptoms / Effects, Acute and Delayed	The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11.
Indication of Immediate Medical Attentional and	No data available.



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Special Treatment Needed

General Advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

5. Fire-Fighting Measures

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

Unsuitable Extinguishing Media Not available.

Specific Hazards Arising from the Chemical Carbon oxides

Special Protective Equipment and Precautions for Firefighters Wear self-contained breathing apparatus for firefighting if necessary.

Firefighting Equipment / Instructions Not available.

Specific Methods Not available.

General Fire Hazards Not available.



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6. Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures

Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. For personal protection see section 8.

Methods and Materials for Containment and Cleaning Up

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

Environmental Precautions

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

7. Handling and Storage

Precautions for Safe Handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. For precautions see section 2.

Conditions for Safe Storage, Including any Incompatibilities

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Recommended storage temperature 2 - 8 °C Storage class (TRGS 510): Combustible liquids



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8. Exposure Controls / Personal Protection

Occupational Exposure Limits	Contains no substances with occupational exposure limit values.
Biological Limit Values	Not available.
Appropriate Engineering Controls	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
Individual Protection Measures, Such as Personal Protective Equipment	
Eye / Face Protection	Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
Skin Protection	
Hand 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: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: 480 min Material tested: Dermatrill® (KCL 740 / Aldrich Z677272, Size M) Splash contact Material: Nitrile rubber



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Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested: Dermatril® (KCL 740 / Aldrich Z677272, 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.

Other

Complete suit protecting against chemicals, 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 multipurpose 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).

Thermal Hazards

Not available.

General Hygiene Considerations

Not available.

9. Physical and Chemical Properties



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Appearance	Refer to Spec Sheet
Physical State	Liquid
Form	Liquid
Color	Light yellow
Odor	No data available
Odor Threshold	No data available
pH	No data available
Melting Point / Freezing Point	-74.99 °C (-102.98 °F)
Initial Boiling Point and Boiling Range	285 °C (545 °F) at 33 hPa (25 mmHg)
Flash Point	110 °C (230 °F) - closed cup
Evaporation Rate	No data available
Flammability (solid, gas)	No data available
Upper / Lower Flammability or Explosive Limits	
Flammability Limit - Lower (%)	No data available
Flammability Limit - Upper (%)	No data available
Explosive Limit - Lower (%)	No data available
Explosive Limit - Upper (%)	No data available



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Vapor Pressure	No data available
Vapor Density	No data available
Relative Density	0.858 g/mL at 25 °C (77 °F)
Solubility(ies)	
Solubility (water)	Practically insoluble
Partition Coefficient (n-octanol/water)	No data available
Auto-ignition Temperature	No data available
Decomposition Temperature	No data available
Viscosity	No data available
Other Information	
Explosive Properties	No data available
Oxidizing Properties	No data available

10. Stability and Reactivity

Reactivity	No data available.
Chemical Stability	Stable under recommended storage conditions.



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Possibility of Hazardous Reaction	No data available.
Conditions to Avoid	No data available.
Incompatible Materials	Strong oxidizing agents.
Hazardous Decomposition Products	No data available. In the event of fire: see section 5.

11. Toxicological Information

Information on Likely Routes of Exposure

Inhalation	No data available.
Skin Contact	No data available.
Eye Contact	No data available.
Ingestion	No data available.

Symptoms Related to the Physical, Chemical and Toxicological Characteristics	No data available.
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Information on Toxicological Effects

Acute Toxicity

Product	Species	Test Results
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Oral LD50 Mouse 5,000 mg/kg

Skin Corrosion / Irritation No data available.

Serious Eye Damage / Eye Irritation No data available.

Respiratory or Skin Sensitization

Respiratory Sensitization No data available.

Skin Sensitization Guinea pig
Result: Does not cause skin sensitisation.
(Directive 67/548/EEC, Annex V, B.6.)

Germ Cell Mutagenicity No data available.

Carcinogenicity

IARC Monographs. Overall Evaluation of Carcinogenicity

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.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

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.

US. National Toxicology Program (NTP) Report on Carcinogens

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.

ACGIH



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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.

Reproductive Toxicity	No data available.
Specific Target Organ Toxicity - Single Exposure	No data available.
Specific Target Organ Toxicity - Repeated Exposure	No data available.
Aspiration Hazard	May be fatal if swallowed and enters airways.

12. Ecological Information

Ecotoxicity	No data available.
Persistence and Degradability	No data available.
Bioaccumulative Potential	No data available.
Mobility in Soil	No data available.
Other Adverse Effects	No data available.



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13. Disposal Considerations

Disposal Instructions	Offer surplus and non-recyclable solutions to a licensed disposal company.
Local Disposal Regulations	Not available.
Hazardous Waste Code	Not available.
Waste from Residues / Unused Products	Not available.
Contaminated Packaging	Dispose of as unused product.

14. Transport Information

DOT (US)

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.



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15. Regulatory Information

US Federal Regulations

CERCLA Hazardous Substance List (40 CFR 302.4)

Not available.

SARA 304 Emergency Release Notification

Not available.

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

Not available.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not available.

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

Not available.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely Hazardous Substance

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

SARA 311/312 Hazardous Chemical



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No SARA Hazards

SARA 313 (TRI reporting)

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.

Other Federal Regulations

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

Not available.

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

Not available.

Safe Drinking Water Act (SDWA)

Not available.

US State Regulations

California Proposition 65

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

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

International Inventories

Country(s) or Region	Inventory Name	On Inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Not available
Canada	Domestic Substances List (DSL)	Not available



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Canada	Non-Domestic Substances List (NDSL)	Not available
China	Inventory of Existing Chemical Substances in China (IECSC)	Not available
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Not available
Europe	European List of Notified Chemical Substances (ELINCS)	Not available
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Not available
Korea	Existing Chemicals List (ECL)	Not available
New Zealand	New Zealand Inventory	Not available
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Not available
Taiwan	Taiwan Toxic Chemical Substances (TCS)	Not available
United States and Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Not available

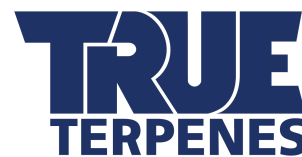
*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

*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).



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16. Other Information

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Revision Date New Document
Version # 00

HMIS® Ratings

Health 1
Flammability 1
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



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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.

