

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 02/07/2020 Revision date: 02/07/2020 Supersedes: 02/07/2020 Version: 1.1

SECTION 1: Identification 1.1. Identification Product form : Mixture Product name CLEMENTINE SOLVENT FREE TERPENE FLAVOR : CAS-No. N/A Product code : TPBL110 Recommended use and restrictions on use 1.2. No additional information available 1.3. Supplier EXTRACT CONSULTANTS, LLC. TERPENES - FLAVORS - BASES PO BOX 11433, DENVER, CO 80211 www.extractconsultants.com INFORMATION: 1-888-541-9089 1.4 **Emergency telephone number** Emergency number : CHEMTREC - USA: 800-424-9300 International: +1 703-527-3887 / 1-800-424-9300 CCN 13010 SECTION 2: Hazard(s) identification 2.1. **Classification of the substance or mixture GHS US classification** Flammable liquids Category 3 Flammable liquid and vapour Skin corrosion/irritation Category 2 Causes skin irritation Serious eye damage/eye irritation Category 2A Causes serious eye irritation Skin sensitization, Category 1 May cause an allergic skin reaction Carcinogenicity Category 2 Suspected of causing cancer Aspiration hazard Category 1 May be fatal if swallowed and enters airways GHS Label elements, including precautionary statements 2.2. **GHS US labeling** Hazard pictograms (GHS US) GHS02 GHS07 GHS08 Signal word (GHS US) : Danger Hazard statements (GHS US) Flammable liquid and vapour May be fatal if swallowed and enters airways Causes skin irritation May cause an allergic skin reaction Causes serious eye irritation Suspected of causing cancer Obtain special instructions before use. Precautionary statements (GHS US) Do not handle until all safety precautions have been read and understood. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Ground/Bond container and receiving equipment

- Take precautionary measures against static discharge.
- Avoid breathing dust/fume/gas/mist/vapors/spray. Wash hands, forearms and face thoroughly after handling.

Wear protective gloves/protective clothing/eye protection/face protection.

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If on skin: Wash with plenty of water If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If exposed or concerned: Get medical advice/attention. Specific treatment (see supplemental first aid instruction on this label) Do NOT induce vomiting. If skin irritation occurs: Get medical advice/attention. If skin irritation or rash occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. Wash contaminated clothing before reuse. In case of fire: Use media other than water to extinguish. Store in a well-ventilated place. Keep cool. Store locked up. Dispose of contents/container to hazardous or special waste collection point, in accordance

with local, regional, national and/or international regulation

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	GHS US classification
ORANGE TERPENES	(CAS-No.) 68647-72-3	25 - 50	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1B, H317 Asp. Tox. 1, H304
BETA CARYOPHYLLENE	(CAS-No.) 87-44-5	10 - 25	Skin Sens. 1B, H317 Asp. Tox. 1, H304
MYRCENE	(CAS-No.) 123-35-3	10 - 25	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Carc. 2, H351 Asp. Tox. 1, H304
LINALOOL	(CAS-No.) 78-70-6	5 - 10	Flam. Liq. 4, H227 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Skin Sens. 1B, H317
ALPHA PINENE	(CAS-No.) 7785-26-4	1 - 5	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1B, H317 Asp. Tox. 1, H304
BETA PINENE	(CAS-No.) 18172-67-3	1 - 5	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1B, H317 Asp. Tox. 1, H304
ALPHA TERPINEOL	(CAS-No.) 98-55-5	1 - 5	Flam. Liq. 4, H227 Skin Irrit. 2, H315 Eye Irrit. 2A, H319
Nerolidol (isomer unspecified)	(CAS-No.) 7212-44-4	1 - 5	Eye Irrit. 2B, H320
CITRAL	(CAS-No.) 5392-40-5	1 - 5	Flam. Liq. 4, H227 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Skin Sens. 1, H317
GERANYL ACETATE	(CAS-No.) 105-87-3	1 - 5	Skin Irrit. 2, H315 Skin Sens. 1, H317
ORANGE OIL	(CAS-No.) 8028-48-6	< 1	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Asp. Tox. 1, H304

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Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures	
4.1. Description of first aid measures	
First-aid measures general First-aid measures after inhalation	: Call a physician immediately.
First-aid measures after innalation	 Remove person to fresh air and keep comfortable for breathing. Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. If skin
	irritation or rash occurs: Get medical advice/attention.
irst-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Do not induce vomiting. Call a physician immediately.
4.2. Most important symptoms and ef	ifects (acute and delayed)
Symptoms/effects after skin contact	: Irritation. May cause an allergic skin reaction.
Symptoms/effects after eye contact	: Eye irritation.
Symptoms/effects after ingestion	: Risk of lung edema.
4.3. Immediate medical attention and	special treatment, if necessary
Freat symptomatically.	
SECTION 5: Fire-fighting measure	s
5.1. Suitable (and unsuitable) extingu	iishing media
Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.
5.2. Specific hazards arising from the	chemical
Fire hazard	: Flammable liquid and vapour.
Reactivity	: Flammable liquid and vapour.
5.3. Special protective equipment and	d precautions for fire-fighters
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
SECTION 6: Accidental release me	easures
6.1. Personal precautions, protective	equipment and emergency procedures
6.1.1. For non-emergency personnel	
Emergency procedures	: Ventilate spillage area. No open flames, no sparks, and no smoking. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapors/spray.
6.1.2. For emergency responders	
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
6.2. Environmental precautions	
Avoid release to the environment.	
6.3. Methods and material for contain	ment and cleaning up
For containment	: Collect spillage.
Methods for cleaning up	 Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.
Other information	: Dispose of materials or solid residues at an authorized site.
6.4. Reference to other sections	
or further information refer to section 13.	
SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	: Ensure good ventilation of the work station. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapors may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapors/spray.
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SECTION 8: Exposure controls/personal protection	5 ppm Body weight eff; URT irr; eye dam; Skin; DSEN; A4
Storage conditions : Store in a well-ventilated place. Ker SECTION 8: Exposure controls/personal protection 8.1. Control parameters PINENE ALPHA, NATURAL (7785-26-4) Not applicable CARYOPHYLLENE BETA, NATURAL (87-44-5) Not applicable PINENE BETA, NATURAL (18172-67-3) Not applicable TERPINEOL ALPHA, NATURAL (98-55-5) Not applicable CITRAL NATURAL (5392-40-5) ACGIH ACGIH TWA (ppm) ACGIH Remark (ACGIH) LINALOOL NATURAL EXHOVOD 98% (78-70-6) Not applicable	5 ppm Body weight eff; URT irr; eye dam; Skin; DSEN; A4
SECTION 8: Exposure controls/personal protection 8.1. Control parameters PINENE ALPHA, NATURAL (7785-26-4) Not applicable CARYOPHYLLENE BETA, NATURAL (87-44-5) Not applicable PINENE BETA, NATURAL (87-44-5) Not applicable PINENE BETA, NATURAL (18172-67-3) Not applicable CITRAL NATURAL (18172-67-3) Not applicable CITRAL NATURAL (3892-40-5) ACGIH ACGIH TWA (ppm) ACGIH ACGIH TWA (ppm) ACGIH Remark (ACGIH) LINALOOL NATURAL EXHOWOOD 98% (78-70-6) Not applicable Not applicable	5 ppm Body weight eff; URT irr; eye dam; Skin; DSEN; A4
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ACGIH Remark (ACGIH) LINALOOL NATURAL EXHOWOOD 98% (78-70-6) Not applicable	Body weight eff; URT irr; eye dam; Skin; DSEN; A4
LINALOOL NATURAL EXHOWOOD 98% (78-70-6) Not applicable	
Not applicable	(Not classifiable as a Human Carcinogen: Agents which cause concern that they could be carcinogenic for humans but which cannot be assessed conclusively because of a lack of data. In vitro or animal studies do not provide indications of carcinogenicity which are sufficient to classify the agent into one of the other categories)
NEROLIDOL NATURAL (7212-44-4)	
Not applicable	
ORANGE TERPENES (68647-72-3)	
Not applicable	
ORANGE VALENCIA 5X FOLD (8028-48-6) Not applicable	
MYRCENE BETA, NATURAL (123-35-3)	
Not applicable	
GERANYL ACETATE, NATURAL (105-87-3)	
Not applicable	

Appropriate engineering controls

: Ensure good ventilation of the work station.

Appropriate engineering controls Environmental exposure controls

: Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Hand protection:

Protective gloves

Eye protection:

Safety glasses

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Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

SECTION 9: Physical and chemical 9.1. Information on basic physical and	
Physical state	: Liquid : COLORLESS TO YELLOW
Odor	: TERPENES. CITRUS
Odor threshold	: No data available
	: No data available
pH Malting point	
Melting point	: Not applicable
Freezing point	: No data available : No data available
Boiling point	: 51 °C
Flash point	
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Not applicable.
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: 0.854 (0.844 - 0.864) · Insoluble.
Solubility	
Log Pow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
9.2. Other information	
Refractive index	: 1.477 (1.467 - 1.487)
SECTION 10: Stability and reactivit	v
10.1. Reactivity	
Flammable liquid and vapour.	
10.2. Chemical stability	
Stable under normal conditions.	
10.3. Possibility of hazardous reactions	
No dangerous reactions known under normal o	conditions of use.
10.4. Conditions to avoid	
Avoid contact with hot surfaces. Heat. No flam	es, no sparks. Eliminate all sources of ignition.
10.5. Incompatible materials	
No additional information available	
10.6. Hazardous decomposition produc	ts
	azardous decomposition products should not be produced.
-	
SECTION 11: Toxicological information	
11.1. Information on toxicological effect	ls

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Acute toxicity	Not classified
PINENE ALPHA, NATURAL (7785-26-4)	
ATE US (oral)	3700 mg/kg body weight
TERPINEOL ALPHA, NATURAL (98-55-5)	
ATE US (oral)	4300 mg/kg body weight
CITRAL NATURAL (5392-40-5)	
ATE US (dermal)	2250 mg/kg body weight
LINALOOL NATURAL EXHOWOOD 98% (78-7	0-6)
ATE US (oral)	2790 mg/kg body weight
ORANGE TERPENES (68647-72-3)	
LD50 oral rat	> 2000 mg/kg body weight (OECD 423: Acute Oral Toxicity – Acute Toxic Class Method, Rat, Female, Read-across, Oral)
LD50 dermal rabbit	> 5000 mg/kg body weight (Equivalent or similar to OECD 402, Rabbit, Weight of evidence, Dermal)
GERANYL ACETATE, NATURAL (105-87-3)	·
LD50 oral rat	6300 mg/kg (Rat, Oral)
ATE US (oral)	6300 mg/kg body weight

Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitization	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Suspected of causing cancer.

ORANGE TERPENES (68647-72-3)		
IARC group	3 - Not classifiable	
MYRCENE BETA, NATURAL (123-35-3)		
IARC group	2B - Possibly carcinogenic to humans	
Reproductive toxicity	: Not classified	
STOT-single exposure	: Not classified	
STOT-repeated exposure	: Not classified	
Aspiration hazard	: May be fatal if swallowed and enters airways.	
Symptoms/effects after skin contact	: Irritation. May cause an allergic skin reaction.	
Symptoms/effects after eye contact	: Eye irritation.	
Symptoms/effects after ingestion	: Risk of lung edema.	
SECTION 12: Ecological informa	tion	
12.1. Toxicity		
Ecology - general	: The product is not considered harmful to aquatic organisms or to cause long-term adverse	

ORANGE TERPENES (68647-72-3)	
LC50 fish 1	720 μg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Pimephales promelas, Flow-through system, Fresh water, Experimental value, Lethal)
EC50 Daphnia 1	0.36 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, GLP)

effects in the environment.

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GERANYL ACETATE, NATURAL (105-87-3)	
LC50 fish 1	68.12 mg/l (DIN 38412: German standard methods for the examination of water, waste water and sludge, 96 h, Leuciscus idus, Static system, Fresh water, Read-across)
EC50 Daphnia 1	14.1 mg/l (EU Method C.2, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, GLP)

12.2. Persistence and degradability

ORANGE TERPENES (68647-72-3)	
Persistence and degradability	Readily biodegradable in water.
ThOD	3.29 g O ₂ /g substance
GERANYL ACETATE, NATURAL (105-	37-3)
Persistence and degradability	Readily biodegradable in water.
ThOD	2.6 g O ₂ /g substance

12.3. Bioaccumulative potential

ORANGE TERPENES (68647-72-3)		
BCF fish 1	864.8 - 1022 (Pisces, QSAR, Fresh weight)	
Log Pow	4.38 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 37 °C)	
Bioaccumulative potential	Potential for bioaccumulation ($4 \ge Log \text{ Kow} \le 5$).	
GERANYL ACETATE, NATURAL (105-87-3)		
BCF other aquatic organisms 1	1500 (Estimated value)	
Log Pow	4.04 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method)	
Bioaccumulative potential	Potential for bioaccumulation ($4 \ge Log \text{ Kow} \le 5$).	

12.4. Mobility in soil

ORANGE TERPENES (68647-72-3)	
Ecology - soil	Adsorbs into the soil.
GERANYL ACETATE, NATURAL (105	5-87-3)
Log Koc	3.06 (log Koc, SRC PCKOCWIN v2.0, Calculated value)
Ecology - soil	Low potential for mobility in soil.

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considera	tions
13.1. Disposal methods	
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Additional information	: Flammable vapors may accumulate in the container.
CECTION 44. Tropped information	
SECTION 14: Transport informati	on
Department of Transportation (DOT)	
In accordance with DOT	
Not regulated	
Transportation of Dangerous Goods	
Not applicable	
Transport by sea	

Transport document description (IMDG) UN-No. (IMDG)

: UN 1266 PERFUMERY PRODUCTS, 3, III

: 1266

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Proper Shipping Name (IMDG)	: PERFUMERY PRODUCTS
Class (IMDG)	: 3 - Flammable liquids
Packing group (IMDG)	: III - substances presenting low danger
Limited quantities (IMDG)	: 5 L

Air transport

Transport document description (IATA)	: UN 1266 Perfumery products, 3, III
UN-No. (IATA)	: 1266
Proper Shipping Name (IATA)	: Perfumery products
Class (IATA)	: 3 - Flammable Liquids
Packing group (IATA)	: III - Minor Danger

SECTION 15: Regulatory information

15.1. US Federal regulations

PINENE ALPHA, NATURAL (7785-26-4)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
CARYOPHYLLENE BETA, NATURAL (87-44-5)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
PINENE BETA, NATURAL (18172-67-3)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
TERPINEOL ALPHA, NATURAL (98-55-5)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
CITRAL NATURAL (5392-40-5)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
LINALOOL NATURAL EXHOWOOD 98% (78-70-6)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
NEROLIDOL NATURAL (7212-44-4)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
ORANGE TERPENES (68647-72-3)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
ORANGE VALENCIA 5X FOLD (8028-48-6)
Not listed on the United States TSCA (Toxic Substances Control Act) inventory
MYRCENE BETA, NATURAL (123-35-3)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
GERANYL ACETATE, NATURAL (105-87-3)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2. International regulations

CANADA

PINENE ALPHA, NATURAL (7785-26-4)	
Listed on the Canadian NDSL (Non-Domestic Substances List)	
CARYOPHYLLENE BETA, NATURAL (87-44-5)	
Listed on the Canadian DSL (Domestic Substances List)	
PINENE BETA, NATURAL (18172-67-3)	
Listed on the Canadian DSL (Domestic Substances List)	

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TERPINEOL ALPHA, NATURAL (98-55-5)
Listed on the Canadian DSL (Domestic Substances List)
CITRAL NATURAL (5392-40-5)
Listed on the Canadian DSL (Domestic Substances List)
LINALOOL NATURAL EXHOWOOD 98% (78-70-6)
Listed on the Canadian DSL (Domestic Substances List)
NEROLIDOL NATURAL (7212-44-4)
Listed on the Canadian DSL (Domestic Substances List)
ORANGE TERPENES (68647-72-3)
Listed on the Canadian DSL (Domestic Substances List)
ORANGE VALENCIA 5X FOLD (8028-48-6)
Listed on the Canadian DSL (Domestic Substances List)
MYRCENE BETA, NATURAL (123-35-3)
Listed on the Canadian DSL (Domestic Substances List)
GERANYL ACETATE, NATURAL (105-87-3)
Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

No additional information available

National regulations

MYRCENE BETA, NATURAL (123-35-3)

Listed on IARC (International Agency for Research on Cancer)

15.3. US State regulations WARNING: This

This product can expose you to myrcene, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

SECTION 16:	Other information

ext of H-phrases: H226	Flammable liquid and vapour
1220	
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
H320	Causes eye irritation
H351	Suspected of causing cancer

SDS US (GHS HazCom 2012) - Extract Consultants

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.