

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 03/18/2022 Version: 1.0

SECTION 1: Identification	
1.1. Identification	
Product form	: Mixture
Product name	: STRAWBERRY SOLVENT FREE TERPENE FLAVOR
CAS-No.	: N/A
Product code	: TPBL131
1.2. Recommended use and restrictions	on use
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 m	ixture
GHS US classification	
Flammable liquids Category 3 Skin corrosion/irritation Category 2 Serious eye damage/eye irritation Category 2 Skin sensitization, Category 1 Carcinogenicity Category 2 Reproductive toxicity Category 2 Aspiration hazard Category 1	Flammable liquid and vapor Causes skin irritation Causes serious eye irritation May cause an allergic skin reaction Suspected of causing cancer Suspected of damaging fertility or the unborn child May be fatal if swallowed and enters airways
2.2. GHS Label elements, including prec	autionary statements
GHS US labeling	
Hazard pictograms (GHS US)	: GHS02 GHS07 GHS08
Signal word (GHS US)	: Danger
Hazard statements (GHS US)	 Flammable liquid and vapor 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 Suspected of damaging fertility or the unborn child
Precautionary statements (GHS US)	 Obtain special instructions before use. 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. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Avoid breathing dust/fume/gas/mist/vapors/spray. Wash hands, forearms and face thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace.
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Wear protective gloves/protective clothing/eye protection/face protection. If swallowed: Immediately call a poison center or doctor. 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 eve 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. Other hazards which do not result in classification No additional information available Unknown acute toxicity (GHS US) Not applicable SECTION 3: Composition/Information on ingredients

Substances 3.1. Not applicable

2.3.

2.4.

3.2. **Mixtures**

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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
LEMON OIL TERPENES	(CAS-No.) 68917-33-9	10 – 25	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Repr. 2, H361 Asp. Tox. 1, H304
ALPHA PINENE	(CAS-No.) 7785-26-4	10 – 25	Flam. Liq. 3, H226 Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Skin Sens. 1B, H317 Asp. Tox. 1, H304
LINALOOL	(CAS-No.) 78-70-6	10 – 25	Flam. Liq. 4, H227 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Skin Sens. 1B, H317
BETA CARYOPHYLLENE	(CAS-No.) 87-44-5	5 – 10	Skin Sens. 1B, H317 Asp. Tox. 1, H304
BETA PINENE	(CAS-No.) 127-91-3	5 – 10	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1B, H317 Asp. Tox. 1, H304
LIME OIL TERPENES	(CAS-No.) 68917-71-5	5 – 10	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1B, H317 Repr. 2, H361 Asp. Tox. 1, H304
MYRCENE	(CAS-No.) 123-35-3	1 – 5	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Carc. 2, H351 Asp. Tox. 1, H304
p-Mentha-1,4-diene	(CAS-No.) 99-85-4	1 – 5	Flam. Liq. 3, H226 Asp. Tox. 1, H304
CIS-3-HEXENOL	(CAS-No.) 928-96-1	1 – 5	Flam. Liq. 3, H226 Eye Irrit. 2, H319
ETHYL CAPROATE	(CAS-No.) 123-66-0	1 – 5	Flam. Liq. 3, H226 Skin Irrit. 2, H315

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	Call a physician immediately.	
First-aid measures after inhalation	Remove person to fresh air and keep comfortable for breathing.	
First-aid measures after skin contact	Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.	
First-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.	to
First-aid measures after ingestion	Do not induce vomiting. Call a physician immediately.	
4.2. Most important symptoms and effects	(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		
Treat symptomatically.		
SECTION 5: Fire-fighting measures		
5.1. Suitable (and unsuitable) extinguishin	g media	
Suitable extinguishing media :	Water spray. Dry powder. Foam. Carbon dioxide.	
5.2. Specific hazards arising from the cher	nical	
Fire hazard :	Flammable liquid and vapor.	
Reactivity	Flammable liquid and vapor.	
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5.3.	5.3. Special protective equipment and precautions for fire-fighters		
Protectio		Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.	
SECTI	ON 6: Accidental release measu	ires	
6.1.	Personal precautions, protective equi	pment and emergency procedures	
6.1.1. Emerger	For non-emergency personnel acy 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. Protectiv	For emergency responders e 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 rel	ease to the environment.		
6.3.	Methods and material for containment	and cleaning up	
Methods	for cleaning up	Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.	
Other inf	ormation	Dispose of materials or solid residues at an authorized site.	
6.4.	Reference to other sections		
For furth	er information refer to section 13.		
SECTI	ON 7: Handling and storage		
7.1.	Precautions for safe handling		
Precautio	ons 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.	
Hygiene	measures :	Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.	
7.2.	Conditions for safe storage, including	any incompatibilities	
Technica	Il measures	Ground/bond container and receiving equipment.	
Storage	conditions :	Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up.	
SECTI	ON 8: Exposure controls/persor	nal protection	
8.1.	Control parameters		
STRAV	VBERRY SOLVENT FREE TERPENE FL	AVOR (N/A)	
No add	No additional information available		
BETA	CARYOPHYLLENE (87-44-5)		
No add	No additional information available		
BETA	BETA PINENE (127-91-3)		
No add	No additional information available		
	PINENE (7785-26-4)		
	itional information available		
•	ha-1,4-diene (99-85-4)		
	itional information available		
ETHYL	CAPROATE (123-66-0)		

No additional information available CIS-3-HEXENOL (928-96-1)

No additional information available

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ORANGE TERPENES (68647-72-3)	
No additional information available	
MYRCENE (123-35-3)	
No additional information available	
LEMON OIL TERPENES (68917-33-9)	
No additional information available	
LIME OIL TERPENES (68917-71-5)	
No additional information available	
LINALOOL (78-70-6)	
No additional information available	

8.2. Appropriate engineering controls

Appropriate engineering controls Environmental exposure controls

: Avoid release to the environment.

: Ensure good ventilation of the work station.

8.3. Individual protection measures/Personal protective equipment

Hand protection:

Protective gloves

Eye protection:

Safety glasses

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

Wear respiratory protection.



SECTION 9: Physical and chemical	properties
9.1. Information on basic physical and o	chemical properties
Physical state	: Liquid
Color	: COLORLESS TO YELLOW
Odor	: CHARACTERISTIC, MATCHING RETAINER SAMPLE
Odor threshold	: No data available
рН	: No data available
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: No data available
Flash point	: 46 °C
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)
Solubility	: Insoluble.
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available

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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	: 1.47 (1.46 – 1.48)
SECTION 10: Stability and react	ivity
10.1. Reactivity	
Flammable liquid and vapor.	
10.2. Chemical stability	
Stable under normal conditions.	
10.3. Possibility of hazardous reacti	ions
No dangerous reactions known under norm	nal conditions of use.
10.4. Conditions to avoid	
	flames, no sparks. Eliminate all sources of ignition.
10.5. Incompatible materials	
No additional information available	
10.6. Hazardous decomposition pro	
Under normal conditions of storage and us	e, hazardous decomposition products should not be produced.
SECTION 11: Toxicological info	rmation
11.1. Information on toxicological ef	ffects
Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified
ALPHA PINENE (7785-26-4) ATE US (oral)	500 mg/kg body weight
p-Mentha-1,4-diene (99-85-4)	
ATE US (oral)	3850 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)
MYRCENE (123-35-3)	
LD50 oral rat	> 11390 mg/kg body weight Animal: rat
LD50 dermal rabbit	> 5000 mg/kg body weight Animal: rabbit, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
LINALOOL (78-70-6) LD50 oral rat	2700 mg/kg (Bat)
LD50 dermal rat	2790 mg/kg (Rat) 5610 mg/kg (Rat)
LD50 dermal rat	> 5000 mg/kg (Rab)t
ATE US (oral)	2790 mg/kg body weight
ATE US (dermal)	5610 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.
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ORANGE TERPENES (68647-72-3)	
IARC group	3 - Not classifiable
MYRCENE (123-35-3)	
IARC group	2B - Possibly carcinogenic to humans
Reproductive toxicity	: Suspected of damaging fertility or the unborn child.
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified

MYRCENE (123-35-3)	
LOAEL (oral,rat,90 days)	250 mg/kg body weight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)
NOAEL (subchronic,oral,animal/male,90 days)	500 mg/kg body weight Animal: mouse, Animal sex: male, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)
NOAEL (subchronic,oral,animal/female,90 days)	250 mg/kg body weight Animal: mouse, Animal sex: female, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)
Aspiration hazard	: May be fatal if swallowed and enters airways.
Viscosity, kinematic	: No data available
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 information	
12.1. Toxicity	
Ecology - general	: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.
BETA CARYOPHYLLENE (87-44-5)	

> 0.17 mg/l Test organisms (species): Daphnia magna

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 - Crustacea [1]	0.36 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, GLP)
ErC50 algae	0.32 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, GLP)
MYRCENE (123-35-3)	
EC50 - Crustacea [1]	1.47 mg/l Test organisms (species): Daphnia magna
LINALOOL (78-70-6)	
EC50 - Crustacea [1]	59 mg/l (EC50; OECD 202: Daphnia sp. Acute Immobilisation Test; 48 h; Daphnia magna)
EC50 - Other aquatic organisms [1]	≥ 100 mg/l (3 h; Activated sludge)
LC50 - Fish [2]	27.8 mg/l (LC50; OECD 203: Fish, Acute Toxicity Test; 96 h; Salmo gairdneri)
Threshold limit - Algae [1]	88.3 mg/l (EC50; 96 h)

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EC50 - Crustacea [1]

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ORANGE TERPENES (68647-72-3)	
Persistence and degradability	Readily biodegradable in water.
ThOD	3.29 g O ₂ /g substance
LINALOOL (78-70-6)	
Persistence and degradability	Readily biodegradable in water.
Biochemical oxygen demand (BOD)	1.531 g O ₂ /g substance
Chemical oxygen demand (COD)	2.808 g O ₂ /g substance

12.3. Bioaccumulative potential

ORANGE TERPENES (68647-72-3)		
BCF - Fish [1]	864.8 – 1022 (Pisces, QSAR, Fresh weight)	
Partition coefficient n-octanol/water (Log Pow)	4.38 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 37 °C)	
Bioaccumulative potential	Potential for bioaccumulation ($4 \le Log Kow \le 5$).	
LINALOOL (78-70-6)		
Partition coefficient n-octanol/water (Log Pow)	2.84 – 3.145	
Bioaccumulative potential	Bioaccumable.	

12.4. Mobility in soil

ORANGE TERPENES (68647-72-3)	
Surface tension	No data available in the literature
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	3.049 – 3.801 (log Koc, SRC PCKOCWIN v2.0, Calculated value)
Ecology - soil	Adsorbs into the soil.

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerat	ions
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.
SECTION 14: Transport information	on
Department of Transportation (DOT)	
In accordance with DOT	
Not regulated	
Transportation of Dangerous Goods	
Not applicable	
μ	
Transport by sea	
Transport document description (IMDG)	: UN 1266 PERFUMERY PRODUCTS, 3, III
UN-No. (IMDG)	: 1266
Proper Shipping Name (IMDG)	: PERFUMERY PRODUCTS
Class (IMDG)	: 3 - Flammable liquids
Packing group (IMDG)	: III - substances presenting low danger
Limited quantities (IMDG)	: 5L

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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

: III - Minor Danger

SECTION 15: Regulatory information

15.1. US Federal regulations

BETA CARYOPHYLLENE (87-44-5)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
BETA PINENE (127-91-3)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
ALPHA PINENE (7785-26-4)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
p-Mentha-1,4-diene (99-85-4)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
ETHYL CAPROATE (123-66-0)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
CIS-3-HEXENOL (928-96-1)
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
MYRCENE (123-35-3)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
LEMON OIL TERPENES (68917-33-9)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
LIME OIL TERPENES (68917-71-5)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
LINALOOL (78-70-6)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
Listed on the onlined states i sork (Tokic substances control Act) inventory

15.2. International regulations CANADA BETA CARYOPHYLLENE (87-44-5) Listed on the Canadian DSL (Domestic Substances List) **BETA PINENE (127-91-3)** Listed on the Canadian DSL (Domestic Substances List) ALPHA PINENE (7785-26-4) Listed on the Canadian NDSL (Non-Domestic Substances List)

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p-Mentha-1,4-diene (99-85-4)
Listed on the Canadian DSL (Domestic Substances List)
ETHYL CAPROATE (123-66-0)
Listed on the Canadian DSL (Domestic Substances List)
CIS-3-HEXENOL (928-96-1)
Listed on the Canadian DSL (Domestic Substances List)
ORANGE TERPENES (68647-72-3)
Listed on the Canadian DSL (Domestic Substances List)
MYRCENE (123-35-3)
Listed on the Canadian DSL (Domestic Substances List)
LEMON OIL TERPENES (68917-33-9)
Listed on the Canadian DSL (Domestic Substances List)
LIME OIL TERPENES (68917-71-5)
Listed on the Canadian DSL (Domestic Substances List)
LINALOOL (78-70-6)
Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

No additional information available

National regulations

MYRCENE (123-35-3)				
Listed on IARC (International Agency for Research on Cancer)				
15.3. US State regulations				
▲ WARNING: 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.				
Component		State or local regulations		
ETHYL CAPROATE	(123-66-0)	U.S New Jersey - Right to Know Hazardous Substance List		

SECTION 16: Other information

H226	Flammable liquid and vapor
H227	Combustible liquid
H302	Harmful if swallowed
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
H351	Suspected of causing cancer
H361	Suspected of damaging fertility or the unborn child

SDS US (GHS HazCom 2012)

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.