

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 08/05/2020 Revision date: 08/05/2020 Version: 1.0

SECTION 1: Identification	
1.1. Identification	
Product form	Mixture
Product name	BANANA SOLVENT FREE TERPENE FLAVOR
CAS-No.	N/A
Product code	TPBL127
1.2. Recommended use and restrictions o	n use
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 mix	ture
GHS US classification	
Flammable liquids Category 3 Skin corrosion/irritation Category 2 Serious eye damage/eye irritation Category 2A Skin sensitization, Category 1 Carcinogenicity Category 2 Aspiration hazard Category 1	Flammable liquid and vapour Causes skin irritation Causes serious eye irritation May cause an allergic skin reaction Suspected of causing cancer May be fatal if swallowed and enters airways
2.2. GHS Label elements, including precau	utionary statements
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
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/vapours/spray. Wash hands, forearms and face thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection. If swallowed: Immediately call a poison center or doctor.

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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.

Other hazards which do not result in classification 2.3.

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
BETA CARYOPHYLLENE	(CAS-No.) 87-44-5	10 - 25	Skin Sens. 1B, H317 Asp. Tox. 1, H304
ORANGE TERPENES	(CAS-No.) 68647-72-3	10 - 25	Flam. Liq. 3, H226 Skin Irrit. 2, H315 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
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
BETA PINENE	(CAS-No.) 18172-67-3	5 - 10	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1B, H317 Asp. Tox. 1, H304
LINALOOL	(CAS-No.) 78-70-6	1 - 5	Flam. Liq. 4, H227 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Skin Sens. 1B, H317
Nerolidol (isomer unspecified)	(CAS-No.) 7212-44-4	1 - 5	Eye Irrit. 2B, H320
ALPHA TERPINEOL	(CAS-No.) 98-55-5	1 - 5	Flam. Liq. 4, H227 Skin Irrit. 2, H315 Eye Irrit. 2A, H319
GERANYL ACETATE	(CAS-No.) 105-87-3	0.1 - 1	Skin Irrit. 2, H315 Skin Sens. 1, H317

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

SECTION 4: First-aid measures Description of first aid measures 4.1. First-aid measures general

First-aid measures after inhalation

: Call a physician immediately.

: Remove person to fresh air and keep comfortable for breathing.

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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.
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.
	Risk of lung edema.
,	5
4.3. Immediate medical attention and spec	lai treatment, if necessary
Treat symptomatically.	
SECTION 5: Fire-fighting measures	
5.1. Suitable (and unsuitable) extinguishing	ig media
Suitable extinguishing media	Water spray. Dry powder. Foam. Carbon dioxide.
5.2. Specific hazards arising from the che	mical
	Flammable liquid and vapour.
	Flammable liquid and vapour.
Reactivity	
5.3. Special protective equipment and pre	
Protection during firefighting	Do not attempt to take action without suitable protective equipment. Self-contained breathing
	apparatus. Complete protective clothing.
SECTION 6: Accidental release measure	Ires
6.1. Personal precautions, protective equi	
	pinent 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/vapours/spray.
6.1.2. For emergency responders	
U V I	Do not attempt to take action without suitable protective equipment. For further information
U V I	Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
Protective equipment	
Protective equipment 6.2. Environmental precautions	
Protective equipment 6.2. Environmental precautions Avoid release to the environment.	refer to section 8: "Exposure controls/personal protection".
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ECTION 8: Exposure controls/personal protection
1. Control parameters
PINENE ALPHA, NATURAL (7785-26-4)
Not applicable
TERPINEOL ALPHA, NATURAL (98-55-5)
Not applicable
PINENE BETA, NATURAL (18172-67-3)
Not applicable
CARYOPHYLLENE BETA, NATURAL (87-44-5)
Not applicable
MYRCENE BETA, NATURAL (123-35-3)
Not applicable
NEROLIDOL NATURAL (7212-44-4)
Not applicable
ORANGE TERPENES (68647-72-3)
Not applicable
GERANYL ACETATE, NATURAL (105-87-3)
Not applicable
LINALOOL NATURAL EXHOWOOD 98% (78-70-6)
Not applicable

8.2.	Appropriate	engineering	controls

Appropriate engineering controls Environmental exposure controls : Ensure good ventilation of the work station. : Avoid release to the environment.

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:

In case of insufficient ventilation, wear suitable respiratory equipment

SECTION 9: Physical and chemical properties		
9.1. Information on bas	sic physical and chemical properties	
Physical state	: Liquid	
	: COLORLESS TO YELLOW	
Odor	: BANANA, TERPENES	
Odor threshold	: No data available	
рН	: No data available	
Melting point	: Not applicable	
Freezing point	: No data available	
Boiling point	: No data available	
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Flash point	: 47 °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	: 0.861 (0.851 - 0.871)	
Solubility	: Insoluble.	
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	: 1.478 (1.468 - 1.488)	
SECTION 10: Stability and reactivity		
SECTION TO. Stability and reactivity	ý literatura de la construcción de	
10.1. Reactivity	y	
	y	
10.1. Reactivity	y	
10.1.ReactivityFlammable liquid and vapour.	y	
10.1.ReactivityFlammable liquid and vapour.10.2.Chemical stability		
10.1. Reactivity Flammable liquid and vapour. 10.2. Chemical stability Stable under normal conditions.		
 10.1. Reactivity Flammable liquid and vapour. 10.2. Chemical stability Stable under normal conditions. 10.3. Possibility of hazardous reactions 		
 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 conditions 	onditions of use.	
 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 conditions to avoid 	onditions of use.	
 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 conditions to avoid Avoid contact with hot surfaces. Heat. No flame 	onditions of use.	
 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 conditions to avoid Avoid contact with hot surfaces. Heat. No flame 10.5. Incompatible materials 	onditions of use. es, no sparks. Eliminate all sources of ignition.	
 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 conditions to avoid Avoid contact with hot surfaces. Heat. No flame 10.5. Incompatible materials No additional information available 10.6. Hazardous decomposition product 	onditions of use. es, no sparks. Eliminate all sources of ignition.	
 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 conditions to avoid Avoid contact with hot surfaces. Heat. No flame 10.5. Incompatible materials No additional information available 10.6. Hazardous decomposition product 	onditions of use. es, no sparks. Eliminate all sources of ignition. ts azardous decomposition products should not be produced.	
 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 conditions to avoid Avoid contact with hot surfaces. Heat. No flame 10.5. Incompatible materials No additional information available 10.6. Hazardous decomposition product Under normal conditions of storage and use, has 	onditions of use. es, no sparks. Eliminate all sources of ignition. ts azardous decomposition products should not be produced. ation	
 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 conditions to avoid Avoid contact with hot surfaces. Heat. No flame 10.5. Incompatible materials No additional information available 10.6. Hazardous decomposition product Under normal conditions of storage and use, has SECTION 11: Toxicological information 	onditions of use. es, no sparks. Eliminate all sources of ignition. ts azardous decomposition products should not be produced. ation	

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PINENE ALPHA, NATURAL (7785-26-4)	
ATE US (oral)	500 mg/kg body weight
TERPINEOL ALPHA, NATURAL (98-55-5)	
ATE US (oral)	4300 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
LINALOOL NATURAL EXHOWOOD 98% (78-70-6)	
ATE US (oral)	2790 mg/kg body weight

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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.	

MYRCENE BETA, NATURAL (123-35-3)	
IARC group	2B - Possibly carcinogenic to humans
ORANGE TERPENES (68647-72-3)	
IARC group	3 - Not classifiable
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 eye contact	 Irritation. May cause an allergic skin reaction. Eye irritation. 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.

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)
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 (105-87-3)	
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)

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ORANGE TERPENES (68647-72-3)	
Bioaccumulative potential	Potential for bioaccumulation ($4 \ge Log$ Kow ≤ 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 (105-87-3)	
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 consideration	IS
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	
Department of Transportation (DOT)	
In accordance with DOT	
Not regulated	
Transportation of Dangerous Goods	
Not applicable	
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)	: 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: Pogulatory information	
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	
TERPINEOL ALPHA, NATURAL (98-55-5)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	

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PINENE BETA, NATURAL (18172-67-3)
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
MYRCENE BETA, NATURAL (123-35-3)
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
GERANYL ACETATE, NATURAL (105-87-3)
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

15.2. International regulations

CANADA

PINENE ALPHA, NATURAL (7785-26-4)
Listed on the Canadian NDSL (Non-Domestic Substances List)
TERPINEOL ALPHA, NATURAL (98-55-5)
Listed on the Canadian DSL (Domestic Substances List)
PINENE BETA, NATURAL (18172-67-3)
Listed on the Canadian DSL (Domestic Substances List)
CARYOPHYLLENE BETA, NATURAL (87-44-5)
Listed on the Canadian DSL (Domestic Substances List)
MYRCENE BETA, NATURAL (123-35-3)
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)
GERANYL ACETATE, NATURAL (105-87-3)
Listed on the Canadian DSL (Domestic Substances List)
LINALOOL NATURAL EXHOWOOD 98% (78-70-6)
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 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.

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ECTION 16: Other inf	ormation	
evision date	: 08/05/2020	
Ill text of H-phrases:		
H226	Flammable liquid and vapour	
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	
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.