



**FLORAPLEX™
TERPENES**

Higher Quality - Lower Prices

Safety Data Sheet

This safety data sheet complies with the requirements of US OSHA Hazard Communication Standard (29 CFR 1910.1200)

Section 1: Identification

Product Name: Biscotti

Other Means of Identification

Product Code: BLD-BIS

UN/ID no: N/A

Synonyms: N/A

Recommended use of chemical and restrictions on use

Recommended Use: Industry Use

Uses advised against: N/A

Details of the supplier of the safety data sheet

Supplier Address:

Floraplex Terpenes LLC
324 Airport Industrial Dr
Ypsilanti, MI 48198

Emergency telephone number

Company Phone Number: Use CHEMTREC instead of emergency phone number


Emergency Phone Number: CHEMTREC 1-800-424-9300 / 1-703-527-3887 Contract# CCN845950

Section 2: Hazard(s) Identification

Classification

Acute toxicity - Oral	Category 4
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2A
Skin sensitization	Category 1B
Aspiration Toxicity	Category 1
Flammable Liquids	Category 3

Label Elements

EMERGENCY OVERVIEW	Danger - Hazard Statements <ol style="list-style-type: none"> 1) Harmful if swallowed 2) Causes skin irritation 3) Causes serious eye irritation 4) Flammable liquid and vapor 5) May be fatal if swallowed and enters airways 6) May cause an allergic skin reaction
	
Appearance: Clear	Physical State: Liquid Odor: Characteristic odor

Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling. Avoid breathing dust/fume/gas/mist/vapors/spray. Contaminated work clothing must not be allowed out of the workplace. Keep away from heat/sparks/open flames/hot surfaces. - 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. Wear protective gloves/eye protection/face protection.

Precautionary Statements - Response

Specific treatment (see.? on this label).

IF IN EYES: 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. If skin irritation or rash occurs: Get medical advice/attention.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse.

IF SWALLOWED: Immediately call a POISON CENTER or doctor. - DO NOT induce vomiting - .

IN CASE OF FIRE: Use CO2, dry chemical, or foam to extinguish.

Precautionary Statements - Storage

Store locked up. Store in a well-ventilated place. Keep cool.

Precautionary Statements - Disposal

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

Hazards not otherwise classified (HNOC)

Other Information

- May be harmful in contact with skin
- Very toxic to aquatic life with long lasting effects.
- Very toxic to aquatic life.

98.6556% of the mixture consists of ingredient(s) of unknown toxicity.

Section 3: Composition/ Information on Ingredients

* 100% of the composition has been withheld as a trade secret.

Section 4: First-Aid Measures

Description of first aid measures

Eye Contact - Rinse thoroughly with plenty of water for ~15 min, lifting lower and upper eyelids. Consult with a physician.

Skin Contact - Wash skin with soap and water. Wash off immediately with plenty of water. Wash contaminated clothing before reuse. Consult with a physician if necessary.

Inhalation - Remove to fresh air. If breathing is difficult, give oxygen. Move to fresh air in case of accidental inhalation of vapors. If not breathing, give artificial respiration.

Ingestion - Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Do not induce vomiting without medical advice. Consult with a physician if necessary.

Most important symptoms and effects, both acute and delayed

Symptoms: N/A

Indication of any immediate medical attention and special treatment needed

Note to physicians: Treat symptomatically.

Section 5: Fire-Fighting Measures

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media

Specific hazards arising from the chemical

Flammable liquid. Keep product and empty container(s) away from heat and sources of ignition.

Hazardous combustion products Irritating or toxic substances may be emitted upon burning, combustion, or decomposition.

Explosion data

Sensitivity to Mechanical Impact None: None

Sensitivity to Static Discharge None: None

Special protective actions for fire-fighters

As in any fire, wear self-contained breathing apparatus pressure-demand MSHA/NIOSH (approved or equivalent) and full protective gear.

Section 6: Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Personal precautions: Ensure adequate ventilation, especially in confined areas. Avoid contact with skin, eyes and inhalation of vapors. Wear protective gloves/protective clothing and eye/face protection. Wash thoroughly after handling.

Environmental precautions

Environmental precautions: See section 12 for additional ecological information.

Methods and material for containment and cleaning up

Methods for containment: Prevent further leakage or spillage if safe to do so.

Methods for cleaning up: Pick up and transfer to properly labeled containers.

Section 7: Handling and Storage

Precautions for safe handling

Advice on safe handling: Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Avoid breathing vapors or mists. Ensure adequate ventilation, especially in confined areas. Wash thoroughly after handling. When using do not eat, drink or smoke.

Conditions for safe storage, including any incompatibilities

Storage conditions: Keep container(s) tightly closed in a dry, cool and well-ventilated place. Protect from sunlight. Keep locked up and out of reach of children.

Incompatible materials: None known based on information supplied.

Section 8: Exposure Controls/Personal Protection

Control Parameters

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
alpha-Pinene 80-56-8	TWA: 20 ppm	-	-
beta-Pinene 127-91-3	TWA: 20 ppm	-	-
delta-3-Carene 13466-78-9	TWA: 20 ppm	-	-
Citral 5392-40-5	TWA: 5 ppm inhalable fraction and vapor S*	-	-
Ethyl acetate 141-78-6	TWA: 400 ppm	TWA: 400 ppm TWA: 1400 mg/m ³ (vacated) TWA: 400 ppm (vacated) TWA: 1400 mg/m ³	IDLH: 2000 ppm TWA: 400 ppm TWA: 1400 mg/m ³
Ethanol 64-17-5	STEL: 1000 ppm	TWA: 1000 ppm TWA: 1900 mg/m ³ (vacated) TWA: 1000 ppm (vacated) TWA: 1900 mg/m ³	IDLH: 3300 ppm TWA: 400ppm TWA: 1900 mg/m ³

Appropriate engineering controls

Engineering controls: Showers, Eyewash stations, Ventilation system

Individual protection measures, such as personal protective equipment (PPE)

Eye/Face Protection: Wear safety glasses with side shields (or goggles). Avoid contact with eyes

Skin and Body Protection: Avoid contact with skin. Wear protective gloves and protective clothing.

Respiratory Protection: If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations. Ensure adequate ventilation, especially in confined areas.

General Hygiene Considerations: Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. When using do not eat, drink or smoke. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Regular cleaning of equipment, work area and clothing is recommended. Avoid breathing (dust, vapor, mist, gas).

Section 9: Physical and Chemical Properties

Information on basic physical and chemical properties

Physical State: Liquid

Appearance: Clear

Color: Pale Orange

Odor: Characteristic Odor

Odor Threshold: N/A

Property

pH: N/A

Melting point/Freezing point: N/A

Boiling point/Boiling range: N/A

Flashpoint: 50.2°C / 122.36°F

Evaporation Rate: N/A

Flammability (solid, gas): N/A

Flammability Limit in Air

Upper flammability limit: N/A

Lower flammability limit: N/A

Vapor Pressure: N/A

Vapor Density: N/A

Specific Gravity: N/A

Water Solubility: N/A

Solubility in other solvents: N/A

Partition coefficient: N/A

Autoignition Temperature: N/A

Decomposition Temperature: N/A

Kinematic Viscosity: N/A

Dynamic Viscosity: N/A

Explosive Properties: N/A

Oxidizing Properties: N/A

Other Information

Softening point: N/A

Molecular weight: N/A

VOC content (%): N/A

Density: N/A

Bulk Density: N/A

Remarks •Method

Section 10: Stability and Reactivity

No data available

Chemical stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Conditions to Avoid

Extremes of temperature and direct sunlight.

Incompatible Materials

None known based on information supplied.

Hazardous Decomposition Products

None known based on information supplied.

Section 11: Toxicological Information**Information on likely routes of exposure****Product information**

Inhalation: Avoid breathing vapors or mists.

Eye Contact: Avoid contact with eyes. Causes serious eye irritation.

Skin Contact: Avoid contact with skin. Causes skin irritation. May cause an allergic reaction. May be harmful in contact with skin.

Ingestion: Harmful if swallowed. May be fatal if swallowed and enters airways.

Information on toxicological effects

Symptoms: No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure.

Skin corrosion/irritation: Irritating to skin

Serious eye damage/eye irritation: Causes serious eye irritation

Sensitization: May cause sensitization by skin

Germ cell mutagenicity: Not classified

Carcinogenicity: The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
d-Limonene 5989-27-5		Group 2A Group 3		X
Ethanol 64-17-5	A3	Group 1	Known	X

Legend**ACGIH (American Conference of Governmental Industrial Hygienists)**

A3 - Animal Carcinogen

IARC (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans

Group 2A - Probably Carcinogenic to Humans

Group 3 - Not classifiable as a human carcinogen

NTP (National Toxicology Program)

Known- Known Carcinogen

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

Reproductive Toxicity: This product does not contain any known or suspected reproductive hazards above the threshold value.

STOT - single exposure: Not Classified

STOT - repeated exposure: Not Classified

Aspiration hazard: May be fatal if swallowed and enters airways.

Numerical measures of toxicity - Product Information

Unknown acute toxicity: 98.6556% of the mixture consists of ingredient(s) of unknown toxicity.

The following values are calculated based on chapter 3.1 of the GHS document

Section 12: Ecological Information

This product contains a chemical which is listed as a marine pollutant according to DOT.

Ecotoxicity

Toxic to aquatic life with long lasting effects.

22.4777% of the mixture consists of component(s) of unknown hazards to the aquatic environment.

Chemical Name	Algae/aquatic plants	Fish	Toxicity to Microorganisms	Crustacea
d-Limonene 5989-27-5		0.619 - 0.796: 96 h Pimephales promelas mg/L LC50 flow-through 35: 96 h Oncorhynchus mykiss mg/L LC50		
Linalool 78-70-6	88.3: 96 h Desmodesmus subspicatus mg/L EC50	22 - 46: 96 h Leuciscus idus mg/L LC50 static		20: 48 h Daphnia magna mg/L EC50
alpha-Pinene 80-56-8		0.28: 96 h Pimephales promelas mg/L LC50 static		41: 48 h Daphnia magna mg/L LC50
Benzyl alcohol 100-51-6	35: 3 h Anabaena variabilis mg/L EC50	460: 96 h Pimephales promelas mg/L LC50 static 10: 96 h Lepomis macrochirus mg/L LC50 static		23: 48 h water flea mg/L EC50
Citral 5392-40-5	16: 72 h Desmodesmus subspicatus mg/L EC50 19: 96 h Desmodesmus subspicatus mg/L EC50	4.6 - 10: 96 h Leuciscus idus mg/L LC50	EC50 = 2100 mg/L 30 min	7: 48 h Daphnia magna mg/L EC50
Ethyl acetate 141-78-6	3300: 48 h Desmodesmus subspicatus mg/L EC50	220 - 250: 96 h Pimephales promelas mg/L LC50 flow-through 484: 96 h Oncorhynchus mykiss		560: 48 h Daphnia magna mg/L EC50 Static

		mg/L LC50 flow-through 352 - 500: 96 h Oncorhynchus mykiss mg/l LC50 semi-static		
Vanillin 121-33-5		57: 96 h Pimephales promelas mg/L LC50 semi-static 88: 96 h Pimephales promelas mg/L LC50 static 53 - 61.3: 96 h Pimephales promelas mg/L LC50 flow-through		180: 24 h Daphnia magna mg/L EC50
Ethanol 64-17-5		12.0 - 16.0: 96 h Oncorhynchus mykiss mg/L LC50 static 13400 - 15100: 96 h Pimephales promelas mg/L LC50 static	EC50 = 34634 mg/L 30 min EC50 = 35470 mg/L 5 min	2: 48 h Daphnia magna mg/L EC50 Static 9268 - 14221: 48 h Daphnia magna mg/L LC50 10800: 24 h Daphnia magna mg/L EC50
cis-3-Hexenol 928-96-1		96hr LC50 - 381 mg/L (Pimephales promelas)		

Persistence and degradability

No information available.

Bioaccumulation

No information available.

Other adverse effects

No information available.

Section 13: Disposal Considerations

Waste treatment methods

Disposal of wastes - Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated packaging - Do not reuse container

Chemical Name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Ethyl Acetate 141-78-6		Included in waste stream F039		U112

Section 14: Transport Information

DOT

UN/ID no: 1197

Proper Shipping Name: Extracts, Liquid

Hazard class: 3

Packing group: III

Marine pollutant: This product contains a chemical which is listed as a marine pollutant according to DOT.

Description: (Terpinolene)

IATA

UN/ID no: 1197

Proper Shipping Name: Extracts, Liquid

Hazard Class: 3

Packing group: III

IMDG

UN/ID no: 1197

Proper Shipping Name: Extracts, Liquid

Hazard Class: 3

Packing group: III

Marine pollutant: This product contains a chemical which is listed as a marine pollutant according to IMDG/IMO.

Description: (Terpinolene)

Section 15: Regulatory Information

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

Acute Health Hazard: Yes

Chronic Health Hazard: No

Fire Hazard: Yes

Sudden release of pressure hazard: No

Reactive Hazard: No

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Ethyl acetate 141-78-6	5000 lb	-	RQ 5000 lb final RQ RQ 2270 kg final RQ

US State Regulations**U.S. State Right-to-Know Regulations**

This product contains substance(s) regulated by state right-to-know regulations.

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Rhode Island
Benzyl alcohol 100-51-6		X	X	
alpha-Pinene 80-56-8	X	X	X	
Terpinolene 586-62-9	X			
Ethyl butyrate 105-54-4	X	X	X	
Ethyl acetate 141-78-6	X	X	X	
cis-3-Hexenol 928-96-1			X	
para-Cymene 99-87-6		X	X	
Ethanol 64-17-5	X	X	X	X

U.S. EPA Label Information

EPA Pesticide registration number: N/A

Section 16: Other Information

Issue date: 04-01-2023

Revision date: 04-10-2023

Revision note: N/A

Disclaimer

This material has not been tested or proven safe for inhalation. With this document, Floraplex Terpenes LLC only attests to the safety of the product when used in the appropriate and suitable fragrance/flavor industry application.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. Classification and labeling according to the IFRA/IOFI Labeling Manual 2018.

End of Safety Data Sheet