



BLD-DOS

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

Product Name Dosi

Issue Date 21-May-2019 **Revision Date** 21-May-2019

Version 2

1. Identification of the Substance/ Preparation and of the Company/Undertaking

Product Name Dosi

Other Means of Identification

UN/UD no

Synonym(s)

Recommended use of the 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 Drive
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




2. Hazards 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	<p>Danger - Hazard statements</p> <p>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 allergic skin reaction</p>
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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.

99.0154% of the mixture consists of ingredient(s) of unknown toxicity.

3. Composition/information on Ingredients

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

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.

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 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

Sensitivity to Static Discharge 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.

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.

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 containers 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.

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	--	--
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
delta-3-Carene 13466-78-9	TWA:20 ppm	--	--
Ethyl Amyl Keton 106-68-3	--	(vacated) TWA:25 ppm (vacated) TWA:130 mg/m ³	--
Isoamyl alcohol 123-51-3	STEL: 125 ppm TWA:100 ppm	TWA:100 ppm TWA 360 mg/m ³ (vacated) TWA:100 ppm (vacated) TWA 360 mg/m ³ (vacated) TWA:125 ppm (vacated) TWA 450 mg/m ³	IDLH: 500 ppm TWA: 100 ppm TWA: 360 mg/m ³ STEL: 125 ppm STEL: 450 mg/m ³
Citral 5392-78-9	TWA:5 ppm inhalable fraction and vapor S*	--	--

Appropriate engineering controls

Engineering controls

Showers, Eyewash stations, Ventilation systems

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).

9. Physical and Chemical Properties

Information on basic physical and chemical properties

Physical state	Liquid	Odor	Characteristic Odor
Appearance	Clear	Odor Threshold	N/A
Color	Colorless to pale yellow		
Property		Vapor Pressure	N/A
pH	N/A	Vapor Density	N/A
Melting point/Freezing point	N/A	Water Solubility	N/A
Boiling point/ Boiling range	N/A	Solubility in other solvents	N/A
Flash point	32.2°C / 90°F	Partition coefficient	N/A
Evaporation Rate	N/A	Autoignition Temperature	N/A
Flammability (solid, gas)	N/A		
Flammability Limit in Air		Remarks - Method	
Upper flammability limit:	N/A		
Lower flammability limit:	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

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.

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.
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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 contact.
Germ cell mutagenicity	Not classified.
Carcinogenicity	The table below indicates whether each agency has listed any ingredient as a carcinogen.

cont.

Chemical Name	ACGIH	IARC	NTP	OSHA
d-Limonene 5989-27-5		Group 2A, Group 3		✓
Myrcene 123-35-3		Group 2B		✓

Legend: IARC (International Agency for Research on Cancer) | Group2A - Probably carcinogenic to humans | Group3 - Not classifiable as human carcinogen | OSHA - Occupational Safety and Health Administration of the US department of labor. | ✓ - 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 99.0154% of the mixture consists of ingredient(s) of unknown toxicity.

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

12. Ecological Information

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

Eco-toxicity

Very toxic to aquatic life with long lasting effects.

32.34% of the mixture consists of component(s) of unknown hazards to the aquatic environment.

Persistence and degradability

No information available

Bioaccumulation

No information available

Other adverse effects

No information available

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.

14. Transportation Information

DOT

UN/ID no 1197

Proper Shipping Name Extracts, Flavoring, Liquid

Hazard Class 3

Packaging Group III

Marine Pollutant This product contains a chemical which is listed as a severe marine pollutant according to DOT. (Limonene)

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IATA

UN/ID no 1197
 Proper Shipping Name Extracts, Flavoring, Liquid
 Hazard Class 3
 Packaging Group III

IMDG

UN/ID no 1197
 Proper Shipping Name Extracts, Flavoring, Liquid
 Hazard Class 3
 Packaging Group III
 Marine Pollutant This product contains a chemical which is listed as a severe marine pollutant according to DOT. (Limonene)

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 substance regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Butyric 107-92-6	5000 lb			✓

CERCLA

This material, as supplied, does not contain any substance regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Super-fund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Butyric 107-92-6	5000 lb		RQ 5000 lb final RQ RQ 2270 kg final RQ
Ethyl acetate 141-78-6	5000 lb		RQ 5000 lb final RQ RQ 2270 kg final RQ

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US State Regulations

U.S. State Right-to-Know Regulations

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

Chemical Name	NJ	MA	PA	RI
alpha-Pinene ⁸⁰⁻⁵⁶⁻⁸	✓	✓	✓	
Benzyl alcohol ¹⁰⁰⁻⁵¹⁻⁶		✓	✓	
Ethyl butyrate ¹⁰⁵⁻⁵⁴⁻⁴	✓	✓	✓	
Ethyl Acetate ¹⁴¹⁻⁷⁸⁻⁶	✓	✓	✓	
Terpinolene ⁵⁸⁶⁻⁶²⁻⁹	✓			
Ethyl Amyl Ketone ¹⁰⁶⁻⁶⁸⁻³			✓	
Ethyl Propionate ¹⁰⁵⁻³⁷⁻³	✓	✓	✓	
Borneol ⁵⁰⁷⁻⁷⁰⁻⁰	✓	✓	✓	
Ethyl Caproate ¹²³⁻⁶⁶⁻⁰		✓	✓	
para-Cymene ⁹⁹⁻⁸⁷⁻⁶		✓	✓	
Isoamyl alcohol ¹²³⁻⁵¹⁻³	✓	✓	✓	
cis-3-Hexenol ⁹²⁸⁻⁹⁶⁻¹			✓	
Hexyl alcohol ¹¹¹⁻²⁷⁻³	✓		✓	✓
Butyric acid ¹⁰⁷⁻⁹²⁻⁶	✓	✓	✓	✓
Benzaldehyde ¹⁰⁰⁻⁵²⁻⁷	✓	✓	✓	✓

U.S. EPA Label Information

EPA Pesticide registration number N/A

16. Other Information

Issue date 21-May-2019 **Revision date** 21-May-2019 **Revision note** No information available

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