PLINK Dishwasher Freshener & Rinse Aid Lemon

Safety Data Sheet

According to SOR/2015-17, Hazardous Products Regulations (HPR) (amended 2022) & According to 29 CFR § 1910.1200, Hazard Communication Standard (HCS) (amended 2024)
Issue date: 08/19/2025 Version: 1.0

SECTION 1 Identification

1.1. GHS Product identifier

Trade name : PLINK Dishwasher Freshener & Rinse Aid Lemon

1.2. Other means of identification

No additional information available

1.3. Recommended use of the chemical and restrictions on use

Recommended use : Dishwasher deodorizer and rinse aid

1.4. Supplier's details

Iron Out dba Summit Brands
6714 Pointe Inverness Way, Suite 200
Fort Wayne, IN , 46804-7935
USA
T 260-483-2519

1.5. Emergency phone number

Emergency number : 1-800-424-9300 (CHEMTREC)

SECTION 2 Hazard identification

2.1. Classification of the substance or mixture

Classification (GHS CA/US)

Skin corrosion/irritation, Category 2	Causes skin irritation.
Skin sensitization, Category 1	May cause an allergic skin reaction.

2.2. GHS label elements, including precautionary statements

GHS CA/US labeling

Hazard pictograms (GHS CA/US) :

Signal word (GHS CA/US) : Warning

Hazard statements (GHS CA/US) : Causes skin irritation
May cause an allergic skin reaction

Precautionary statements (GHS CA/US) : Avoid breathing dust.
Wash hands thoroughly after handling.
Contaminated work clothing should not be allowed out of the workplace.
Wear protective gloves.
IF ON SKIN: Wash with plenty of water.
If skin irritation or rash occurs: Get medical advice or attention.
Take off contaminated clothing and wash it before reuse.
Dispose of contents and container to a hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

Supplementary information :

2.3. Other hazards which do not result in classification

No additional information available

SECTION 3 Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Chemical name / Synonyms	Product identifier	%
Benzyl benzoate	benzyl benzoate Benzoate, benzyl / Benzoic acid, benzyl ester / Benzoic acid, phenylmethyl ester / BENZYL BENZOATE	CAS-No.: 120-51-4	10 – 30
D-Limonene	(R)-p-mentha-1,8-diene, d-limonene Cyclohexene, 1-methyl-4-(1-methylethenyl)-, (4R)- / Cyclohexene, 1-methyl-4-(1-methylethenyl)-, (R)- / (R)-p-Mentha-1,8-diene / p-Mentha-1,8-diene, (R)-(+)- / Limonene, D- / Menthadiene, 1,8(9)-p- / d-Limonene / Limonene, d- / (4R)-1-Methyl-4-(1-methylethenyl)cyclohexene / (4R)-p-Mentha-1,8-diene / 1-Methyl-4-prop-1-en-2-yl-cyclohexene / (R)-1-Methyl-4-(1-methylethenyl)cyclohexene / d-LIMONENE / (R)-1-Methyl-4-(1-methylethenyl)cyclohex-1-ene / (R)-4-Isopropenyl-1-methylcyclohex-1-ene / Limonene / Limonene, (+)-	CAS-No.: 5989-27-5	7 - 13
Citral	citral 3,7-Dimethyl-2,6-octadienal / 2,6-Octadienal, 3,7-dimethyl- / CITRAL / 3,7-Dimethylocta-2,6-dien-8-al / citral	CAS-No.: 5392-40-5	1 - 5
Octanal, 2-(phenylmethylene)-	Cinnamaldehyde, .alpha.-hexyl- / 2-Hexylcinnamaldehyde / .alpha.-Hexylcinnamaldehyde / 2-Benzylideneoctanal / HEXYL CINNAMAL / Hexyl cinnamal / .alpha.-Hexylcinnamic aldehyde / 2-(Phenylmethylene)octanal / Hexylcinnamaldehyde	CAS-No.: 101-86-0	1 - 5
2,6-Octadienal, 3,7-dimethyl-, (Z)-	(Z)-3,7-Dimethylocta-2,6-dienal / Neral / 2,6-Octadienal, 3,7-dimethyl-, (2Z)- / Citral / cis-Citral / NERAL	CAS-No.: 106-26-3	1 - 5
2,6-Octadienal, 3,7-dimethyl-, (E)-	trans-Citral / (E)-Citral / trans-3,7-Dimethyl-2,6-octadienal / (E)-3,7-Dimethylocta-2,6-dienal / Geranaldehyde / Octa-2,6-dienal, 3,7-dimethyl-, (E)- / 2,6-Octadienal, 3,7-dimethyl-, (2E)- / trans-3,7-Dimethylocta-2,6-dienal / Citral / Geranial / GERANIAL	CAS-No.: 141-27-5	1 - 5
2,6-Octadien-1-ol, 3,7-dimethyl-, (Z)-	2-cis-3,7-Dimethyl-2,6-octadien-1-ol / Nerol / 2,6-Octadien-1-ol, 3,7-dimethyl-, (2Z)- / (2Z)-3,7-Dimethyl-2,6-octadienol / (Z)-Nerol / (2Z)-3,7-Dimethylocta-2,6-dien-1-ol / 3,7-Dimethyl-2,6-octadien-1-ol, (Z)- / NEROL	CAS-No.: 106-25-2	1 - 5
Citronellol	2,6-Dimethyl-2-octen-8-ol / 3,7-Dimethyl-6-octen-1-ol / 6-Octen-1-ol, 3,7-dimethyl- / DL-Citronellol / CITRONELLOL / 3,7-Dimethyl-6-octenol / .beta.-Citronellol / 3,7-Dimethyloct-6-en-1-ol / .beta.-Citronellol, (+/-)- / (.+-.)-Citronellol / (.+-.)-.beta.-Citronellol	CAS-No.: 106-22-9	1 - 5
Geraniol	geraniol; (2E)-3,7-dimethylocta-2,6-dien-1-ol Geraniol alcohol / Geranyl alcohol / Guaniol / Lemonol / 2,6-Octadien-1-ol, 3,7-dimethyl-, (2E)- / 2,6-Octadien-1-ol, 3,7-dimethyl-, (E)- / 2,6-Octadien-1-ol, 3,7-dimethyl-, trans- / GERANIOL / (2E)-3,7-Dimethyl-2,6-octadienol / (2E)-3,7-Dimethylocta-2,6-dien-1-ol / 3,7-Dimethyl-2,6-octadien-1-ol, (E)- / (E)-3,7-Dimethylocta-2,6-dien-1-ol	CAS-No.: 106-24-1	0.1 – 1

Comments	:	All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume. CANADA GHS: The exact percentage (concentration) of composition has been withheld as a trade secret in accordance with the amended HPR as of December 2022. US GHS: The exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200.

SECTION 4 First-aid measures

4.1. Description of necessary first-aid measures

First-aid measures after inhalation	:	Remove person to fresh air and keep comfortable for breathing. If you feel unwell, seek medical advice.
First-aid measures after skin contact	:	IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical help. Take off contaminated clothing and wash it before reuse. Obtain medical attention if irritation persists.
First-aid measures after eye contact	:	Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if irritation persists.
First-aid measures after ingestion	:	Do not induce vomiting. If vomiting occurs have person lean forward. Never give anything by mouth to an unconscious person. Call a poison center or a doctor if you feel unwell.
First-aid measures general	:	If you feel unwell, seek medical advice (show the label where possible). Show this safety data sheet to the doctor in attendance. Avoid contact with skin and eyes. Keep out of the reach of children.

4.2. Most important symptoms/effects, acute and delayed

Symptoms/effects after inhalation	:	Prolonged inhalation may be harmful.
Symptoms/effects after skin contact	:	Causes skin irritation. May cause an allergic skin reaction. Symptoms may include redness, edema, drying, defatting and cracking of the skin.
Symptoms/effects after eye contact	:	Direct contact with eyes may cause temporary irritation.
Symptoms/effects after ingestion	:	May cause stomach distress, nausea or vomiting.

4.3. Indication of immediate medical attention and special treatment needed, if necessary

Other medical advice or treatment	:	Symptoms may be delayed.

SECTION 5 Fire-fighting measures

5.1. Suitable extinguishing media

Suitable extinguishing media	:	Dry chemical, CO2, dry sand, or alcohol-resistant foam.
Unsuitable extinguishing media	:	Do not use a water jet since it may cause the fire to spread.

5.2. Specific hazards arising from the chemical

Fire hazard	:	During fire, gases hazardous to health may be formed. In case of fire or explosion do not breathe fumes.
Explosion hazard	:	No direct explosion hazard.
Hazardous decomposition products in case of fire	:	May include and are not limited to: oxides of carbon.

5.3. Special protective actions for fire-fighters

Firefighting instructions	:	In case of fire: Stop leak if safe to do so. Do not enter fire area without proper protective equipment, including respiratory protection. Move containers from fire area if it can be done without personal risk.
Protection during firefighting	:	Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6 Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : In the event of a significant spillage : Notify authorities if product enters sewers or public waters.

Personal Precautions, Protective Equipment and Emergency Procedures : Avoid contact with skin and eyes. Wear appropriate personal protective equipment, as indicated in Section 8.

Environmental precautions : Avoid release to the environment.

6.2. Methods and materials for containment and cleaning up

Methods for cleaning up : Pick up spilled material and collect it in a suitable container for disposal. . Clean contaminated surfaces with an excess of water. Minimize generation of dust.

Other information : This material and its container must be disposed of in a safe way, and as per local legislation.

For further information refer to section 13

SECTION 7 Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Avoid contact with skin and eyes. Avoid breathing dust. Do not taste or swallow. Wear personal protective equipment. Handle and open container with care.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

Additional hazards when processed : Not expected to present a significant hazard under anticipated conditions of normal use.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep out of reach of children. Store tightly closed in a dry, cool and well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

Incompatible materials : Strong oxidizing agents.

Packaging materials : Store always product in container of same material as original container.

SECTION 8 Exposure controls/personal protection

8.1. Control parameters

Citral (5392-40-5)	
Canada (British Columbia) - Occupational Exposure Limits	
Notations and remarks	Skin (the substance that contribute significantly to the overall exposure by the skin route); S(D) (substance with specific evidence of sensitization by dermal route)
Regulatory reference	OHS Guidelines Part 5: Chemical Agents and Biological Agents (WorkSafe BC)
Canada (Manitoba) - Occupational Exposure Limits	
OEL TWA	32 mg/m³ (IFV - Inhalable fraction and vapor)
	5 ppm (inhalable fraction and vapor)
Notations and remarks	TLV® Basis: Body weight; URT irr; Eye dam. Notations: Skin; DSEN; A4 (Not classifiable as a Human Carcinogen)
Regulatory reference	ACGIH 2025

Citral (5392-40-5)	
Canada (New Brunswick) - Occupational Exposure Limits	
OEL TWA	5 ppm (inhalable fraction and vapor)
Notations and remarks	Body weight eff; URT irr; eye dam; Skin; DSEN; A4
Canada (Newfoundland and Labrador) - Occupational Exposure Limits	
OEL TWA	32 mg/m³ (IFV - Inhalable fraction and vapor)
	5 ppm (inhalable fraction and vapor)
Notations and remarks	TLV® Basis: Body weight; URT irr; Eye dam. Notations: Skin; DSEN; A4 (Not classifiable as a Human Carcinogen)
Regulatory reference	ACGIH 2025
Canada (Nova Scotia) - Occupational Exposure Limits	
OEL TWA	32 mg/m³ (IFV - Inhalable fraction and vapor)
	5 ppm (inhalable fraction and vapor)
Notations and remarks	TLV® Basis: Body weight; URT irr; Eye dam. Notations: Skin; DSEN; A4 (Not classifiable as a Human Carcinogen)
Regulatory reference	ACGIH 2025
Canada (Ontario) - Occupational Exposure Limits	
OEL TWAEV	5 ppm (inhalable fraction and vapor)
Notations and remarks	Skin
Regulatory reference	Ontario Occuational Exposure Limits under Regulation 833
Canada (Prince Edward Island) - Occupational Exposure Limits	
OEL TWA	32 mg/m³ (IFV - Inhalable fraction and vapor)
	5 ppm (inhalable fraction and vapor)
Notations and remarks	TLV® Basis: Body weight; URT irr; Eye dam. Notations: Skin; DSEN; A4 (Not classifiable as a Human Carcinogen)
Regulatory reference	ACGIH 2025
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA	32 mg/m³ (IFV - Inhalable fraction and vapor)
	5 ppm (inhalable fraction and vapor)
Remark (ACGIH)	TLV® Basis: Body weight; URT irr; Eye dam. Notations: Skin; DSEN; A4 (Not classifiable as a Human Carcinogen)
ACGIH chemical category	Not Classifiable as a Human Carcinogen, Skin - potential significant contribution to overall exposure by the cutaneous route, dermal sensitizer
Regulatory reference	ACGIH 2025

8.2. Appropriate engineering controls

Appropriate engineering controls : Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Environmental exposure controls : Avoid release to the environment.

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

Materials for protective clothing:
Not normally required when used as directed.

Hand protection:
Wear protective gloves

Eye protection:
Not normally required when used as directed.

Skin and body protection:
Not normally required when used as directed.

Respiratory protection:
Where exposure guideline levels may be exceeded, use an approved NIOSH respirator. Respirator should be selected by and used under the direction of a trained health and safety professional following requirements found in OSHA's respirator standard (29 CFR 1910.134), CAN/CSA-Z94.4 and ANSI's standard for respiratory protection (Z88.2).

SECTION 9 Physical and chemical properties

9.1. Basic physical and chemical properties

Physical state	:	Solid
Appearance	:	Tablets.
Color	:	Yellow
Odor	:	Lemon
Odor threshold	:	No data available
pH	:	No data available
Relative evaporation rate (butyl acetate=1)	:	No data available
Relative evaporation rate (ether=1)	:	No data available
Melting point	:	No data available
Freezing point	:	Not applicable
Boiling point	:	No data available
Flash point	:	Not applicable
Auto-ignition temperature	:	Not applicable
Decomposition temperature	:	No data available
Flammability (solid, gas)	:	No data available
Vapor pressure	:	No data available
Relative vapor density at 20°C	:	No data available
Relative density	:	No data available
Solubility	:	No data available
Partition coefficient n-octanol/water (Log Pow)	:	No data available
Viscosity, kinematic	:	Not applicable
Explosive properties	:	Not explosive.
Oxidizing properties	:	Not oxidising.
Explosion limits	:	Not applicable
Particle characteristics	:	No data available

9.2. Data relevant with regard to physical hazard classes (supplemental)

No additional information available

SECTION 10 Stability and reactivity

Reactivity	:	The product is non-reactive under normal conditions of use, storage and transport.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reactions	:	No dangerous reactions known under normal conditions of use.
Conditions to avoid	:	Keep away from heat and direct sunlight. Do not mix with other chemicals.
Incompatible materials	:	Strong oxidizing agents.
Hazardous decomposition products	:	May include and are not limited to: oxides of carbon.

SECTION 11 Toxicological information

11.1. Likely routes of exposure

Acute toxicity (oral)	:	Not classified.
Acute toxicity (dermal)	:	Not classified
Acute toxicity (inhalation)	:	Not classified

Benzyl benzoate (120-51-4)	
LD50 oral rat	500 mg/kg (Source: NLM_CIP)
LD50 dermal rabbit	4000 mg/kg (Source: NLM_CIP)

D-Limonene (5989-27-5)	
LD50 oral rat	4400 mg/kg (Source: CHEMVIEW)
LD50 dermal rabbit	> 5 g/kg (Source: CHEMVIEW)
LC50 Inhalation - Rat (Vapors)	> 20 mg/l/4h

Citral (5392-40-5)	
LD50 oral rat	4960 mg/kg (Source: NLM_CIP)
LD50 dermal rat	> 2000 mg/kg body weight Animal: rat
LD50 dermal rabbit	2250 mg/kg (Source: NLM_CIP)

Octanal, 2-(phenylmethylene)- (101-86-0)	
LD50 oral rat	3100 mg/kg (Source: NLM_CIP)
LD50 dermal rabbit	> 3000 mg/kg (Source: EPA_HPV)
LC50 Inhalation - Rat	> 5 mg/l/4h

2,6-Octadienal, 3,7-dimethyl-, (Z)- (106-26-3)	
LD50 oral rat	≈ 6800 mg/kg body weight Animal: rat
LD50 dermal rat	> 2000 mg/kg body weight Animal: rat
LD50 dermal rabbit	2250 mg/kg (Source: ECHA_API)

2,6-Octadienal, 3,7-dimethyl-, (E)- (141-27-5)	
LD50 oral rat	500 mg/kg (Source: NLM_CIP)
LD50 dermal rat	> 2000 mg/kg body weight Animal: rat

2,6-Octadien-1-ol, 3,7-dimethyl-, (Z)- (106-25-2)	
LD50 oral rat	4500 mg/kg (Source: NLM_CIP)
LD50 dermal rabbit	> 5 g/kg (Source: NLM_CIP)

Citronellol (106-22-9)	
LD50 oral rat	3450 mg/kg (Source: NLM_CIP)
LD50 dermal rabbit	2650 mg/kg (Source: EPA_HPV)

Geraniol (106-24-1)	
LD50 oral rat	3600 mg/kg (Source: NLM_CIP)
LD50 dermal rabbit	> 5 g/kg (Source: NLM_CIP)

Skin corrosion/irritation : Causes skin irritation.

Serious eye damage/irritation : Not classified

Respiratory or skin sensitization : May cause an allergic skin reaction.

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified.

D-Limonene (5989-27-5)	
IARC group	3 - Not classifiable
National Toxicity Program (NTP) Status	Evidence of Carcinogenicity

Citral (5392-40-5)	
NOAEL (chronic,oral,animal/male,2 years)	60 mg/kg body weight Animal: mouse, Animal sex: male, Guideline: OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)

2,6-Octadienal, 3,7-dimethyl-, (Z)- (106-26-3)	
NOAEL (chronic,oral,animal/male,2 years)	60 mg/kg body weight Animal: mouse, Animal sex: male, Guideline: OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)

Geraniol (106-24-1)	
NOAEL (chronic,oral,animal/male,2 years)	60 mg/kg body weight Animal: mouse, Animal sex: male, Guideline: OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)

Reproductive toxicity : Not classified

STOT-single exposure : Not classified

STOT-repeated exposure : Not classified

Benzyl benzoate (120-51-4)	
NOAEL (dermal,rat/rabbit,90 days)	781 mg/kg body weight Animal: rat, Guideline: OECD Guideline 410 (Repeated Dose Dermal Toxicity: 21/28-Day Study)

Citral (5392-40-5)	
LOAEC (inhalation,rat,gas,90 days)	68 ppm Animal: rat, Animal sex: female
NOAEL (oral,rat,90 days)	100 mg/kg body weight Animal: rat, Guideline: OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)
NOAEC (inhalation,rat,gas,90 days)	34 ppm Animal: rat, Animal sex: female
NOAEL (subchronic,oral,animal/male,90 days)	60 mg/kg body weight Animal: mouse, Animal sex: male, Guideline: OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)

2,6-Octadienal, 3,7-dimethyl-, (Z)- (106-26-3)	
LOAEC (inhalation,rat,gas,90 days)	68 ppm Animal: rat, Animal sex: female

2,6-Octadienal, 3,7-dimethyl-, (Z)- (106-26-3)	
NOAEL (oral,rat,90 days)	100 mg/kg body weight Animal: rat, Guideline: OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)
NOAEC (inhalation,rat,gas,90 days)	34 ppm Animal: rat, Animal sex: female
NOAEL (subchronic,oral,animal/male,90 days)	60 mg/kg body weight Animal: mouse, Animal sex: male, Guideline: OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)

Citronellol (106-22-9)	
NOAEL (oral,rat,90 days)	2000 mg/kg body weight Animal: rat, Guideline: other:
NOAEC (inhalation,rat,dust/mist/fume,90 days)	0.063 mg/l air Animal: rat, Guideline: OECD Guideline 412 (Subacute Inhalation Toxicity: 28-Day Study)

Geraniol (106-24-1)	
NOAEL (dermal,rat/rabbit,90 days)	300 mg/kg body weight Animal: rat, Guideline: other:, Guideline: other:

Aspiration hazard : Not classified

Likely routes of exposure : Skin and eye contact. Ingestion. Inhalation.

Symptoms/effects after inhalation : Prolonged inhalation may be harmful.

Symptoms/effects after skin contact : Causes skin irritation. May cause an allergic skin reaction. Symptoms may include redness, edema, drying, defatting and cracking of the skin.

Symptoms/effects after eye contact : Direct contact with eyes may cause temporary irritation.

Symptoms/effects after ingestion : May cause stomach distress, nausea or vomiting.

SECTION 12 Ecological information

12.1. Toxicity

Hazardous to the aquatic environment, short–term (acute) : Not classified.

Hazardous to the aquatic environment, long–term (chronic) : Not classified.

Benzyl benzoate (120-51-4)	
LC50 - Fish [1]	2.32 mg/l (Exposure time: 96 h - Species: Danio rerio [semi-static] Source: ECHA)
EC50 - Crustacea [1]	3.09 mg/l Test organisms (species): Daphnia magna

D-Limonene (5989-27-5)	
LC50 - Fish [1]	0.619 – 0.796 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through] Source: EPA)
LC50 - Fish [2]	35 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss Source: EPA)
EC50 - Crustacea [1]	0.307 mg/l Test organisms (species): Daphnia magna
EC50 - Crustacea [2]	0.51 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	0.32 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)
EC50 72h - Algae [2]	0.214 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)

Citral (5392-40-5)	
LC50 - Fish [1]	6.78 mg/l Test organisms (species): Leuciscus idus
EC50 - Crustacea [1]	7 mg/l (Exposure time: 48 h - Species: Daphnia magna)

Citral (5392-40-5)	
EC50 72h - Algae [1]	16 mg/l (Species: Desmodesmus subspicatus)
EC50 96h - Algae [1]	19 mg/l (Species: Desmodesmus subspicatus)

2,6-Octadienal, 3,7-dimethyl-, (Z)- (106-26-3)	
LC50 - Fish [1]	6.78 mg/l Test organisms (species): Leuciscus idus
EC50 - Crustacea [1]	6.8 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	103.8 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)

2,6-Octadienal, 3,7-dimethyl-, (E)- (141-27-5)	
LC50 - Fish [1]	6.78 mg/l Test organisms (species): Leuciscus idus
EC50 - Crustacea [1]	6.8 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	103.8 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)

2,6-Octadien-1-ol, 3,7-dimethyl-, (Z)- (106-25-2)	
LC50 - Fish [1]	20.3 mg/l (Exposure time: 96 h - Species: Danio rerio [semi-static] Source: ECHA)
EC50 - Crustacea [1]	32.4 mg/l Test organisms (species): Daphnia magna

Citronellol (106-22-9)	
LC50 - Fish [1]	14.66 mg/l Test organisms (species): Leuciscus idus
EC50 - Crustacea [1]	17.48 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	2.4 mg/l Test organisms (species):

Geraniol (106-24-1)	
LC50 - Fish [1]	22 mg/l (Exposure time: 96 h - Species: Danio rerio [static] Source: ECHA)
EC50 - Crustacea [1]	10.8 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	13.1 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)

12.2. Persistence and degradability

Benzyl benzoate (120-51-4)	
Persistence and degradability	Rapidly degradable

D-Limonene (5989-27-5)	
Persistence and degradability	Rapidly degradable

Citral (5392-40-5)	
Persistence and degradability	Rapidly degradable

Octanal, 2-(phenylmethylene)- (101-86-0)	
Persistence and degradability	Rapidly degradable

2,6-Octadienal, 3,7-dimethyl-, (Z)- (106-26-3)	
Persistence and degradability	Rapidly degradable

2,6-Octadienal, 3,7-dimethyl-, (E)- (141-27-5)	
Persistence and degradability	Rapidly degradable

2,6-Octadien-1-ol, 3,7-dimethyl-, (Z)- (106-25-2)	
Persistence and degradability	Rapidly degradable

Citronellol (106-22-9)	
Persistence and degradability	Rapidly degradable

Geraniol (106-24-1)	
Persistence and degradability	Rapidly degradable

12.3. Bioaccumulative potential

Benzyl benzoate (120-51-4)	
Partition coefficient n-octanol/water (Log Pow)	3.97 (at 25 °C)

D-Limonene (5989-27-5)	
Partition coefficient n-octanol/water (Log Pow)	4.38 (at 37 °C (at pH 7.2)

Citral (5392-40-5)	
Partition coefficient n-octanol/water (Log Pow)	2.76 (at 25 °C)

2,6-Octadien-1-ol, 3,7-dimethyl-, (Z)- (106-25-2)	
Partition coefficient n-octanol/water (Log Pow)	2.76 (at 30 °C (at pH 6.5)

Citronellol (106-22-9)	
Partition coefficient n-octanol/water (Log Pow)	3.41 (at 25 °C)

Geraniol (106-24-1)	
Partition coefficient n-octanol/water (Log Pow)	2.6 (at 25 °C)

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Ozone : Not classified

Fluorinated greenhouse gases : No

SECTION 13 Disposal considerations

Waste treatment methods : Dispose of the material collected according to regulations.

Sewage disposal recommendations : Disposal must be done according to official regulations.

Product/Packaging disposal recommendations : Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling, disposal or collection. Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

SECTION 14 Transport information

In accordance with TDG / DOT

TDG	DOT
14.1. UN Number	
Not regulated for transport	
14.2. UN Proper Shipping Name	
Not regulated	Not regulated
14.3. Transport hazard class(es)	
Not regulated	Not regulated
14.4. Packing group, if applicable	
Not regulated	Not regulated
14.5. Environmental hazards	
Not regulated	Not regulated
No supplementary information available	

14.6. Special precautions for user

TDG
Not regulated

DOT
Not regulated

14.7. Transport in bulk according to Annex II of MARPOL 73/789(^9) and the IBC Code(^10)

Not applicable

SECTION 15 Regulatory information

All components of this product are present on DSL

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

This product or mixture is not known to contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

SECTION 16 Other Information

Issue date : 08/19/2025

Other information : For an updated SDS, please contact the supplier or manufacturer listed on the first page of the document.

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