

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 06/30/2022 Revision date: 06/30/2022 Supersedes: 06/30/2022

Version: 1.1

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SECTION 1: Identification	on			
.1. Identification				
Product form	: Mixture			
Product name	: OIL, ROS	SE PETAL		
Product code	: PROSEF	PETAL		
.2. Recommended use a	and restrictions on use			
.3. Supplier				
The Essential Oil Company 5498 SE International Way Milwaukie, Oregon 97222 T 800-729-5912 - F 503-872-87 info@essentialoil.com - www.es				
.4. Emergency telephor	ne number			
Emergency number	: CHEMTF CCN 130	REC - USA: 800-424-9300 Interi 110	national: +1 703-527-3887 / 1-8	00-424-9300
SECTION 2: Hazard(s) id	dentification			
2.1. Classification of the	substance or mixture			
GHS US classification				
Flammable liquids Category 4 Skin corrosion/irritation Categor Serious eye damage/eye irritatio Skin sensitization, Category 1	ry 2 C on Category 2 C	Combustible liquid Causes skin irritation Causes serious eye irritation May cause an allergic skin reaction		
	s, including precautionary st	atements		
HS US Iapoling				
GHS US labeling Hazard pictograms (GHS US)	:			
lazard pictograms (GHS US)	: GHS : Warning	07		
•	: GHS : Warning : Combust			
Hazard pictograms (GHS US) Signal word (GHS US)	: Warning : Combust Causes May caus Causes			

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2.3. Other hazards which do not result in classification

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
ISOCYCLOCITRAL	(CAS-No.) 1335-66-6	1 – 5	Flam. Liq. 4, H227 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Skin Sens. 1B, H317
ORANGE TERPENES	(CAS-No.) 68647-72-3	1 – 5	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1B, H317 Asp. Tox. 1, H304
PHENYLETHYL ALCOHOL	(CAS-No.) 60-12-8	1 – 5	Acute Tox. 4 (Oral), H302 Eye Irrit. 2A, H319
2-Isobutyl-4-methyltetrahydro-2H-pyran-4-ol	(CAS-No.) 63500-71-0	1 – 5	Eye Irrit. 2A, H319
CITRONELLOL	(CAS-No.) 106-22-9	1 – 5	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Skin Sens. 1B, H317
Linalool	(CAS-No.) 78-70-6	1 – 5	Flam. Liq. 4, H227 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Skin Sens. 1B, H317
Diethyl Malonate	(CAS-No.) 105-53-3	1 – 5	Eye Irrit. 2A, H319
GERANIOL	(CAS-No.) 106-24-1	1 – 5	Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317
CIS-3-HEXENOL	(CAS-No.) 928-96-1	1 – 5	Flam. Liq. 3, H226 Eye Irrit. 2A, H319

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 after inhalation	: Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact	: Wash skin with plenty of water. Take off 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	: Call a poison center/doctor/physician if you feel unwell.
4.2. Most important symptoms and eff	ects (acute and delayed)
Symptoms/effects after skin contact	: Irritation. May cause an allergic skin reaction.
Symptoms/effects after eye contact	: Eye irritation.
4.3. Immediate medical attention and s	special treatment, if necessary
Treat symptomatically.	
SECTION 5: Fire-fighting measures	
5.1. Suitable (and unsuitable) extingui	shing media
Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.
5.2. Specific hazards arising from the	chemical
Fire hazard	: Combustible liquid.
Reactivity	: The product is non-reactive under normal conditions of use, storage and transport.
5.3. Special protective equipment and	precautions for fire-fighters
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

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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/vapors/spray. 6.1.2. For emergency responders Protective 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 release to the environment. 6.3. Methods and material for containment and cleaning up : Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters. Other information : Dispose of materials or solid residues at an authorized site. 6.4. Reference to other sections Ensure good ventilation of the work station. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Wear personal protective equipment. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapors/spray. Hygiene measures : Ventilate spillage area. No open flames, no sparks, exp on a term and the protective equipment. 7.2. Conditions for safe storage, including any incompatibilities : Store in a well-ventilated place. Keep cool. SECTION 8: Exposure controls/personal protection : Store in a well-ventilated place. Keep cool.		
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Diethyl Malonate (105-53-3) No additional information available PHENYLETHYL ALCOHOL (60-12-8)	ORANGE TERPENES (68647-72-3)	
No additional information available PHENYLETHYL ALCOHOL (60-12-8)	No additional information available	
PHENYLETHYL ALCOHOL (60-12-8)	Diethyl Malonate (105-53-3)	
	No additional information available	
No additional information available	PHENYLETHYL ALCOHOL (60-12-8)	
	No additional information available	

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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 basic physical and ch	
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	: 85 °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	: 0.9273 (0.9173 – 0.9373)
Solubility	: Insoluble.
Partition coefficient n-octanol/water (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	: 1.46127 (1.45127 – 1.47127)
SECTION 10: Stability and reactivity	

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

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10.2. **Chemical stability**

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. **Conditions to avoid**

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

10.5. **Incompatible materials**

No additional information available

Acute toxicity (inhalation)

10.6. Hazardous decomposition products

: Not classified

Under n	ormal conditions of storage and use, h	azardous decomposition products should not be produced.
SECTI	ON 11: Toxicological inform	ation
11.1.	Information on toxicological effec	ls l
Acute to	xicity (oral)	: Not classified
Acute to	xicity (dermal)	: Not classified

ISOCYCLOCITRAL (1335-66-6)	
ATE US (oral)	3220 mg/kg body weight
CITRONELLOL (106-22-9)	
LD50 oral rat	3450 mg/kg (Rat, Inconclusive, insufficient data, Oral)
LD50 dermal rabbit	2650 mg/kg (Rabbit, Inconclusive, insufficient data, Dermal)
ATE US (oral)	3450 mg/kg body weight
ATE US (dermal)	2650 mg/kg body weight
GERANIOL (106-24-1)	
LD50 oral rat	3600 mg/kg body weight (Rat; Experimental value)
LD50 dermal rabbit	> 5000 mg/kg body weight (Rabbit; Experimental value)
ATE US (oral)	3600 mg/kg body weight
Linalool (78-70-6)	
ATE US (oral)	2790 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)
PHENYLETHYL ALCOHOL (60-12-8)	
LD50 oral rat	1603 mg/kg body weight (Equivalent or similar to OECD 401, Rat, Male / female, Experimental value, Oral, 14 day(s))
LD50 dermal rabbit	2535 mg/kg body weight (Equivalent or similar to OECD 402, 24 h, Rabbit, Male / female, Experimental value, Dermal, 14 day(s))
LC50 Inhalation - Rat	> 4.63 mg/l (4 h, Rat, Male / female, Experimental value, Inhalation (aerosol), 14 day(s))
ATE US (oral)	500 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	Not classified

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), Remarks on results: other:	i
ORANGE TERPENES (68647-72-3)		
IARC group	3 - Not classifiable	
06/30/2022	EN (English US)	5/10

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cording to Federal Register / Vol. //, No. 58 / Monday, N	
Reproductive toxicity	: Not classified
TOT-single exposure	: Not classified
TOT-repeated exposure	: Not classified
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 /iscosity, kinematic	: Not classified : No data available
	: Irritation. May cause an allergic skin reaction. : Eye irritation.
SECTION 12: Ecological information	
2.1. Toxicity	
Ecology - general	: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.
CITRONELLOL (106-22-9)	
LC50 - Fish [1]	14.66 mg/l (DIN 38412-15, 96 h, Leuciscus idus, Static system, Fresh water, Experimental value)
EC50 - Crustacea [1]	17.48 mg/l (48 h, Daphnia magna, Static system, Fresh water, Experimental value)
GERANIOL (106-24-1)	
LC50 - Fish [1]	> 9.8 mg/l (LC50; 96 h)
EC50 - Crustacea [1]	10.8 mg/l Test organisms (species): Daphnia magna
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 - 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)
PHENYLETHYL ALCOHOL (60-12-8)	
LC50 - Fish [1]	215 – 464 mg/l (DIN 38412: German standard methods for the examination of water, waste water and sludge, 96 h, Leuciscus idus, Static system, Fresh water, Experimental value, Lethal)
EC50 - Crustacea [1]	287.17 mg/l (EU Method C.2, 48 h, Daphnia magna, Static system, Fresh water, Experimenta value, Locomotor effect)
ErC50 algae	1300 mg/l (DIN 38412: German standard methods for the examination of water, waste water and sludge, 72 h, Desmodesmus subspicatus, Static system, Fresh water, Experimental value, Nominal concentration)

12.2. Persistence and degradability

CITRONELLOL (106-22-9)	
Persistence and degradability	Readily biodegradable in water.
Chemical oxygen demand (COD)	2.05 g O ₂ /g substance
ThOD	2.961 g O ₂ /g substance

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GERANIOL (106-24-1)	
Persistence and degradability	Readily biodegradable in water.
ThOD	2.9 g O ₂ /g substance
ORANGE TERPENES (68647-72-3)	
Persistence and degradability	Readily biodegradable in water.
ThOD	3.29 g O ₂ /g substance
PHENYLETHYL ALCOHOL (60-12-8)	
Persistence and degradability	Biodegradable in the soil. Readily biodegradable in water.
Biochemical oxygen demand (BOD)	1.45 g O ₂ /g substance
Chemical oxygen demand (COD)	2.5 g O ₂ /g substance
ThOD	2.6 g O ₂ /g substance

12.3. Bioaccumulative potential

2.59 l/kg (BCFBAF v3.00, Estimated value) 41 (Practical experience/observation, EU Method A.8: Partition Coefficient, 25 °C) we potential for bioaccumulation (BCF < 500).
41 (Practical experience/observation, EU Method A.8: Partition Coefficient, 25 °C) ow potential for bioaccumulation (BCF < 500).
w potential for bioaccumulation (BCF < 500).
a bioaccumulation data available
a bioaccumulation data available
04.8 – 1022 (Pisces, QSAR, Fresh weight)
38 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 7 °C)
otential for bioaccumulation ($4 \le Log Kow \le 5$).
036 l/kg (BCFBAF v3.01, Estimated value, Fresh weight)
3 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 20
w potential for bioaccumulation (Log Kow < 4).
3 7 0 3 2 7

12.4. Mobility in soil

CITRONELLOL (106-22-9)		
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	1.85 (log Koc, EPIWIN 2.00, Estimated value)	
Ecology - soil	Highly mobile 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.	
PHENYLETHYL ALCOHOL (60-12-8)		
Surface tension	59.7 mN/m (20 °C, 1 g/l, OECD 115: Surface Tension of Aqueous Solutions)	
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	1.5 (log Koc, OECD 121: Estimation of the Adsorption Coefficient (Koc) on Soil and on Sewage Sludge using High Performance Liquid Chromatography (HPLC), Experimental value)	
Ecology - soil	Highly mobile in soil.	

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal consideration	ons
13.1. Disposal methods	
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.

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SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT Not regulated

Transportation of Dangerous Goods

Not applicable

Transport by sea

Not applicable

Air transport

Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations

2-IsobutyI-4-methyltetrahydro-2H-pyran-4-ol (63500-71-0)			
EPA TSCA Regulatory Flag	PMN - PMN - indicates a commenced PMN substance.		
ISOCYCLOCITRAL (1335-66-6)			
Listed on the United States TSCA (Toxic Substances Control Act) inventory			
Diethyl Malonate (105-53-3)			
Listed on the United States TSCA (Toxic Substances Control Act) inventory			

15.2. International regulations

CANADA

CIS-3-HEXENOL (928-96-1)				
Listed on the Canadian DSL (Domestic Substances List)				
2-IsobutyI-4-methyltetrahydro-2H-pyran-4-ol (63500-71-0)				
Listed on the Canadian DSL (Domestic Substances List)				
ISOCYCLOCITRAL (1335-66-6)				
Listed on the Canadian DSL (Domestic Substances List)				
CITRONELLOL (106-22-9)				
Listed on the Canadian DSL (Domestic Substances List)				
GERANIOL (106-24-1)				
Listed on the Canadian DSL (Domestic Substances List)				
Linalool (78-70-6)				
Listed on the Canadian DSL (Domestic Substances List)				
ORANGE TERPENES (68647-72-3)				
Listed on the Canadian DSL (Domestic Substances List)				
Diethyl Malonate (105-53-3)				
Listed on the Canadian DSL (Domestic Substances List)				
PHENYLETHYL ALCOHOL (60-12-8)				
Listed on the Canadian DSL (Domestic Substances List)				

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EU-Regulations No additional information available

National regulations

CIS-3-HEXENOL (9	28-96-1)			
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active				
Listed on INSQ (Mexican National Inventory of Chemical Substances)				
2-Isobutyl-4-methy	ltetrahydro-2H-pyran-4-ol (63500-71-	.0)		
<u> </u>	Place on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active			
	ed on INSQ (Mexican National Inventory of Chemical Substances)			
	, ,			
CITRONELLOL (10	6-22-9)			
	sted on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active			
Listed on INSQ (Mexican National Inventory of Chemical Substances)				
GERANIOL (106-24	4-1)			
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active				
	xican National Inventory of Chemical S			
Linalool (78-70-6)				
	I States TSCA (Toxic Substances Continuing National Inventory of Chamical States			
	xican National Inventory of Chemical S	ubstances)		
ORANGE TERPEN	ES (68647-72-3)			
	I States TSCA (Toxic Substances Cont	rol Act) inventory - Status: Active		
PHENYLETHYL AL	· ·			
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active Listed on INSQ (Mexican National Inventory of Chemical Substances)				
15.3. US State regul	ations			
	This product can expose you to toluene, which is known to the State of California to cause birth defects or other			
🗥 WARNING:	reproductive harm. For more informa	tion go to www.P65Warnings.ca.gov.		
	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		
CIS-3-HEXENOL(928-96-1)		U.S Pennsylvania - RTK (Right to Know) List		
Diethyl Malonate(105-53-3)		U.S New Jersey - Right to Know Hazardous Substance List		
		1		

SECTION 16: Other information

Revision date

: 06/30/2022

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Full text of H-phrases:		
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	
H318	Causes serious eye damage	
H319	Causes serious eye irritation	

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.