

# SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of:  
US - OSHA Hazard Communication Standard (29 CFR 1910.1200)

Issuing Date 15-Apr-2022

Revision Date 15-Apr-2022

Revision Number 1

## 1. Identification

### Product identifier

Product Name Gardenia

### Other means of identification

Synonyms None

### Recommended use of the chemical and restrictions on use

Recommended use Air freshener

Restrictions on use No information available

### Details of the supplier of the safety data sheet

#### Manufacturer Address

Rexair LLC  
2600 West Big Beaver Rd  
Suite 555  
Troy, MI 48084 USA  
248-643-7222

E-mail webmaster@rexairllc.com

### Emergency telephone number

Emergency telephone 1-800-255-3924 (ChemTel)

## 2. Hazard(s) identification

### Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2A
Skin sensitization	Category 1A
Reproductive toxicity	Category 2

### Hazards not otherwise classified (HNOC)

Not applicable.

### Label elements

#### **Warning**

#### **Hazard statements**

Causes skin irritation.  
Causes serious eye irritation.  
May cause an allergic skin reaction.  
Suspected of damaging fertility or the unborn child.

**Precautionary Statements - Prevention**

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Wear protective gloves/protective clothing/eye protection/face protection.

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.

**Precautionary Statements - Response**

IF exposed or concerned: Get medical advice/attention.

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 ON SKIN: Wash with plenty of water and soap.

Take off contaminated clothing and wash it before reuse.

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

**Precautionary Statements - Storage**

Store locked up.

**Precautionary Statements - Disposal**

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

**Other information**

Harmful to aquatic life with long lasting effects. Harmful to aquatic life.

### 3. Composition/information on ingredients

**Substance**

Not applicable.

**Mixture**

Chemical name	CAS No	Weight-%	Trade secret
Hexylene glycol	107-41-5	10-20	*
Isopropyl alcohol	67-63-0	1-5	*
Orange oil	8028-48-6	0-2.5	*
Phenethyl alcohol	60-12-8	0-2	*
Lemon oil terpenes	68917-33-9	0-2	*
7-Octen-2-ol, 2-methyl-6-methylene-, dihydro derivative	53219-21-9	0-2	*
Dipropylene glycol monomethyl ether	34590-94-8	1-5	*
$\beta$ -Naphthyl ethyl ether	93-18-5	0-1	*
Tricyclodecanyl propionate	17511-60-3	0-1	*
Tetramethyl Acetyloctahydronaphthalenes	54464-57-2	0-1	*
Terpineol	98-55-5	0-1	*
Orange oil, sweet terpenes	68647-72-3	0-1	*
Nerol	106-25-2	0-1	*

Linalyl acetate	115-95-7	0-1	*
Linalool	78-70-6	0-1	*
Limonene	5989-27-5	0-1	*
Hexyl salicylate	6259-76-3	0-1	*
Hexyl cinnamal	101-86-0	0-1	*
Geranyl Acetate	105-87-3	0-1	*
Geraniol	106-24-1	0-1	*
gamma-Undecalactone	104-67-6	0-1	*
Ethyl methylphenylglycidate	77-83-8	0-1	*
Coumarin	91-64-5	0-1	*
Citral	5392-40-5	0-1	*
Benzyl benzoate	120-51-4	0-1	*
Benzyl acetate	140-11-4	0-1	*
a-Isomethyl ionone	127-51-5	0-1	*
Acetyl cedrene	32388-55-9	0-1	*
4-tert-Butylcyclohexyl acetate	32210-23-4	0-1	*
2-tert-Butylcyclohexyl acetate	88-41-5	0-1	*
1,3,4,6,7,8-Hexahydro-4,6,6,7,8,8-hexamethylcyclo penta-gamma-2-benzopyran	1222-05-5	0-1	*
Tangerine oil	8016-85-1	0-0.5	*
Linalyl acetate	115-95-7	0-0.5	*
Grapefruit oil	8016-20-4	0-0.5	*
Geraniol	106-24-1	0-0.5	*
Hexyl salicylate	6259-76-3	0-0.2	*
trans-Anethole	4180-23-8	0-0.1	*
Reaction mass of 3,5-dimethyl cyclohex-3-ene-1-carbaldehyde and 2,4-dimethylcyclohex-3-ene-1-carbaldehyde	68039-49-6	0-0.1	*
p-t-Butyl-alpha-methylhydroxycinnamaldehyde	80-54-6	0-0.1	*
p-Methylanisole	104-93-8	0-0.1	*
Mandarin oil	8008-31-9	0-0.1	*
Lauricaldehyde	112-54-9	0-0.1	*
Isoeugenol	97-54-1	0-0.1	*
Citronellol	106-22-9	0-0.1	*
Citronellal	106-23-0	0-0.1	*
Cinnamaldehyde	104-55-2	0-0.1	*
Butylphenyl Methylpropional	80-54-6	0-0.1	*
Benzyl salicylate	118-58-1	0-0.1	*
alpha-Methyl-1,3-benzodioxole-5-propionaldehyde	1205-17-0	0-0.1	*
6,7-Dihydro-1,1,2,3,3-pentamethyl-4(5H)-indanone	33704-61-9	0-0.1	*
2-Methyundecanal	110-41-8	0-0.1	*

\*The exact percentage (concentration) of composition has been withheld as a trade secret.

## 4. First-aid measures

### Description of first aid measures

#### General advice

Show this safety data sheet to the doctor in attendance. IF exposed or concerned: Get medical advice/attention.

#### Inhalation

Remove to fresh air. Get medical attention immediately if symptoms occur.

#### Eye contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area. Get medical attention if irritation develops and

persists.

**Skin contact** May cause an allergic skin reaction. In the case of skin irritation or allergic reactions see a physician. Wash off immediately with soap and plenty of water for at least 15 minutes.

**Ingestion** Rinse mouth. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Call a physician.

**Self-protection of the first aider** Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).

#### **Most important symptoms and effects, both acute and delayed**

**Symptoms** Itching. Rashes. Hives. May cause redness and tearing of the eyes. Burning sensation.

#### **Indication of any immediate medical attention and special treatment needed**

**Note to physicians** May cause sensitization in susceptible persons. Treat symptomatically.

### **5. Fire-fighting measures**

**Suitable Extinguishing Media** Dry chemical, CO<sub>2</sub>, water spray or regular foam.

**Unsuitable extinguishing media** High volume water jet.

**Specific hazards arising from the chemical** Product is or contains a sensitizer. May cause sensitization by skin contact.

**Hazardous combustion products** Carbon oxides.

#### **Explosion data**

**Sensitivity to mechanical impact** None.

**Sensitivity to static discharge** None.

**Special protective equipment and precautions for fire-fighters** Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

### **6. Accidental release measures**

#### **Personal precautions, protective equipment and emergency procedures**

**Personal precautions** Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

**Other information** Refer to protective measures listed in Sections 7 and 8.

#### **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** Dam up. Soak up with inert absorbent material. 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. Ensure adequate ventilation. In case of insufficient ventilation, wear

suitable respiratory equipment. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse. Remove contaminated clothing and shoes.

### Conditions for safe storage, including any incompatibilities

**Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up.

## 8. Exposure controls/personal protection

### Control parameters

**Exposure Limits** The following ingredients are the only ingredients of the product above the cut-off level (or level that contributes to the hazard classification of the mixture) which have an exposure limit applicable in the region for which this safety data sheet is intended or other recommended limit. At this time, the other relevant constituents have no known exposure limits from the sources listed here.

Chemical name	ACGIH TLV	OSHA PEL	NIOSH
Hexylene glycol 107-41-5	STEL: 50 ppm vapor fraction STEL: 10 mg/m <sup>3</sup> inhalable particulate matter, aerosol only TWA: 25 ppm vapor fraction	(vacated) Ceiling: 25 ppm (vacated) Ceiling: 125 mg/m <sup>3</sup>	Ceiling: 25 ppm Ceiling: 125 mg/m <sup>3</sup>
Isopropyl alcohol 67-63-0	STEL: 400 ppm TWA: 200 ppm	TWA: 400 ppm TWA: 980 mg/m <sup>3</sup> (vacated) TWA: 400 ppm (vacated) TWA: 980 mg/m <sup>3</sup> (vacated) STEL: 500 ppm (vacated) STEL: 1225 mg/m <sup>3</sup>	IDLH: 2000 ppm TWA: 400 ppm TWA: 980 mg/m <sup>3</sup> STEL: 500 ppm STEL: 1225 mg/m <sup>3</sup>
Dipropylene glycol monomethyl ether 34590-94-8	STEL: 150 ppm TWA: 100 ppm S*	TWA: 100 ppm TWA: 600 mg/m <sup>3</sup> (vacated) TWA: 100 ppm (vacated) TWA: 600 mg/m <sup>3</sup> (vacated) STEL: 150 ppm (vacated) STEL: 900 mg/m <sup>3</sup> (vacated) S* S*	IDLH: 600 ppm TWA: 100 ppm TWA: 600 mg/m <sup>3</sup> STEL: 150 ppm STEL: 900 mg/m <sup>3</sup>
Citral 5392-40-5	dermal sensitizer TWA: 5 ppm inhalable fraction and vapor S*	-	-
Benzyl acetate 140-11-4	TWA: 10 ppm	-	-

### Biological occupational exposure limits

Chemical name	ACGIH
Isopropyl alcohol 67-63-0	40 mg/L - urine (Acetone) - end of shift at end of workweek

### Appropriate engineering controls

**Engineering controls** Showers  
Eyewash stations  
Ventilation systems.

**Individual protection measures, such as personal protective equipment**

<b>Eye/face protection</b>	Wear safety glasses with side shields (or goggles).
<b>Hand protection</b>	Wear suitable gloves. Impervious gloves.
<b>Skin and body protection</b>	Wear suitable protective clothing. Long sleeved clothing.
<b>Respiratory protection</b>	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.
<b>General hygiene considerations</b>	Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product. Wear suitable gloves and eye/face protection. Avoid contact with skin, eyes or clothing.

**9. Physical and chemical properties****Information on basic physical and chemical properties**

<b>Appearance</b>	Clear liquid
<b>Physical state</b>	Liquid
<b>Color</b>	Colorless
<b>Odor</b>	Fragrance
<b>Odor threshold</b>	No data available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH		No data available
Melting point / freezing point		No data available
Initial boiling point and boiling range		No data available
Flash point	124 °C / 255.2 °F	Pensky-Martens Closed Cup (PMCC)
Evaporation rate		No data available
Flammability		No data available
Flammability Limit in Air		
Upper flammability or explosive limits		No data available
Lower flammability or explosive limits		No data available
Vapor pressure		No data available
Vapor density		No data available
Relative density		No data available
Water solubility		No data available
Solubility(ies)		No data available
Partition coefficient		No data available
Autoignition temperature		No data available
Decomposition temperature		No data available
Kinematic viscosity		No data available
Dynamic viscosity		No data available

**Other information**

<b>Explosive properties</b>	No information available
<b>Oxidizing properties</b>	No information available
<b>Softening point</b>	No information available
<b>Molecular weight</b>	No information available
<b>VOC Content (%)</b>	No information available
<b>Liquid Density</b>	No information available
<b>Bulk density</b>	No information available

**10. Stability and reactivity**

<b>Reactivity</b>	None under normal use conditions.
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<b>Chemical stability</b>	Stable under normal conditions.
<b>Possibility of hazardous reactions</b>	None under normal processing.
<b>Conditions to avoid</b>	None known based on information supplied.
<b>Incompatible materials</b>	Acids. Bases. Metals. Oxidizing or reducing agents. Metal salts. Isocyanates.
<b>Hazardous decomposition products</b>	Carbon oxides. Aldehydes.

## 11. Toxicological information

### Information on likely routes of exposure

#### Product Information

<b>Inhalation</b>	Specific test data for the substance or mixture is not available. May cause irritation of respiratory tract.
<b>Eye contact</b>	Specific test data for the substance or mixture is not available. Causes serious eye irritation. (based on components). May cause redness, itching, and pain.
<b>Skin contact</b>	Specific test data for the substance or mixture is not available. May cause sensitization by skin contact. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. (based on components). Causes skin irritation.
<b>Ingestion</b>	Specific test data for the substance or mixture is not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

### Symptoms related to the physical, chemical and toxicological characteristics

<b>Symptoms</b>	Itching. Rashes. Hives. Redness. May cause redness and tearing of the eyes.
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### Acute toxicity

#### Numerical measures of toxicity

No information available

#### Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Hexylene glycol 107-41-5	= 3700 mg/kg ( Rat )	= 12300 mg/kg ( Rabbit )	-
Isopropyl alcohol 67-63-0	= 1870 mg/kg ( Rat )	= 4059 mg/kg ( Rabbit )	> 10000 ppm ( Rat ) 6 h
Orange oil 8028-48-6	-	> 5000 mg/kg ( Rabbit )	-
Phenethyl alcohol 60-12-8	= 1609 mg/kg ( Rat )	= 2535 mg/kg ( Rabbit )	> 4.63 mg/L ( Rat ) 4 h
Dipropylene glycol monomethyl ether 34590-94-8	= 5.35 g/kg ( Rat )	= 9500 mg/kg ( Rabbit )	-
$\beta$ -Naphthyl ethyl ether 93-18-5	= 3110 mg/kg ( Rat )	> 5000 mg/kg ( Rabbit )	-
Tricyclodecanyl propionate 17511-60-3	> 5 g/kg ( Rat )	-	-
Terpineol	= 5170 mg/kg ( Rat )	> 2000 mg/kg ( Rat )	-

98-55-5			
Nerol 106-25-2	= 4500 mg/kg ( Rat )	> 5 g/kg ( Rabbit )	-
Linalyl acetate 115-95-7	= 14550 mg/kg ( Rat )	> 5000 mg/kg ( Rabbit )	-
Linalool 78-70-6	= 2790 mg/kg ( Rat )	= 5610 mg/kg ( Rabbit )	-
Limonene 5989-27-5	= 5200 mg/kg ( Rat ) = 4400 mg/kg ( Rat )	> 5 g/kg ( Rabbit )	-
Hexyl salicylate 6259-76-3	> 5 g/kg ( Rat )	> 5000 mg/kg ( Rabbit )	-
Hexyl cinnamal 101-86-0	= 3100 mg/kg ( Rat )	> 3000 mg/kg ( Rabbit )	> 5 mg/L ( Rat ) 4 h
Geranyl Acetate 105-87-3	= 6330 mg/kg ( Rat )	-	-
Geraniol 106-24-1	= 3600 mg/kg ( Rat )	> 5 g/kg ( Rabbit )	-
gamma-Undecalactone 104-67-6	= 18500 mg/kg ( Rat )	> 2000 mg/kg ( Rat )	-
Ethyl methylphenylglycidate 77-83-8	= 5470 mg/kg ( Rat )	> 2000 mg/kg ( Rat )	-
Coumarin 91-64-5	> 5000 mg/kg ( Rat )	= 293 mg/kg ( Rat )	-
Citral 5392-40-5	= 4960 mg/kg ( Rat )	= 2250 mg/kg ( Rabbit )	-
Benzyl benzoate 120-51-4	= 500 mg/kg ( Rat )	= 4000 mg/kg ( Rabbit )	-
Benzyl acetate 140-11-4	= 2490 mg/kg ( Rat )	> 5000 mg/kg ( Rabbit )	-
a-Isomethyl ionone 127-51-5	> 5000 mg/kg ( Rat )	> 5000 mg/kg ( Rabbit )	-
Acetyl cedrene 32388-55-9	-	> 5000 mg/kg ( Rabbit )	-
4-tert-Butylcyclohexyl acetate 32210-23-4	= 5 g/kg ( Rat )	> 5000 mg/kg ( Rabbit )	-
2-tert-Butylcyclohexyl acetate 88-41-5	= 4600 mg/kg ( Rat )	-	-
1,3,4,6,7,8-Hexahydro-4,6,6,7,8, 8-hexamethylcyclopenta-gamm a-2-benzopyran 1222-05-5	> 3250 mg/kg ( Rat )	> 3250 mg/kg ( Rabbit )	-
Linalyl acetate 115-95-7	= 14550 mg/kg ( Rat )	> 5000 mg/kg ( Rabbit )	-
Grapefruit oil 8016-20-4	> 5 g/kg ( Rat )	-	-
Geraniol 106-24-1	= 3600 mg/kg ( Rat )	> 5 g/kg ( Rabbit )	-
Hexyl salicylate 6259-76-3	> 5 g/kg ( Rat )	> 5000 mg/kg ( Rabbit )	-
trans-Anethole 4180-23-8	= 2090 mg/kg ( Rat )	> 4900 mg/kg ( Rabbit )	> 5.1 mg/L ( Rat ) 4 h
p-t-Butyl-alpha-methylhydroxyci nnamicaldehyde 80-54-6	= 1390 mg/kg ( Rat )	> 5000 mg/kg ( Rabbit )	> 1802 mg/m <sup>3</sup> ( Rat ) 4 h
p-Methylanisole	= 1920 mg/kg ( Rat )	> 5 g/kg ( Rabbit )	> 6.1 mg/L ( Rat ) 4 h



104-93-8			
Mandarin oil 8008-31-9	> 5 g/kg ( Rat )	-	-
Lauricaldehyde 112-54-9	= 23 g/kg ( Rat )	> 2000 mg/kg ( Rabbit )	-
Isoeugenol 97-54-1	= 1560 mg/kg ( Rat )	-	-
Citronellol 106-22-9	= 3450 mg/kg ( Rat )	= 2650 mg/kg ( Rabbit )	-
Citronellal 106-23-0	= 2420 mg/kg ( Rat )	> 2.5 g/kg ( Rabbit )	-
Cinnamaldehyde 104-55-2	= 2220 mg/kg ( Rat )	= 1260 mg/kg ( Rabbit )	-
Butylphenyl Methylpropional 80-54-6	= 1390 mg/kg ( Rat )	> 5000 mg/kg ( Rabbit )	> 1802 mg/m <sup>3</sup> ( Rat ) 4 h
Benzyl salicylate 118-58-1	= 2227 mg/kg ( Rat )	> 5000 mg/kg ( Rabbit )	-
alpha-Methyl-1,3-benzodioxole- 5-propionaldehyde 1205-17-0	-	> 2000 mg/kg ( Rabbit )	-
2-Methyundecanal 110-41-8	> 5 g/kg ( Rat )	> 10 mL/kg ( Rabbit )	-

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

<b>Skin corrosion/irritation</b>	Classification based on data available for ingredients. Irritating to skin.
<b>Serious eye damage/eye irritation</b>	Classification based on data available for ingredients. Causes serious eye irritation.
<b>Respiratory or skin sensitization</b>	Classification based on data available for ingredients. May cause sensitization by skin contact.
<b>Germ cell mutagenicity</b>	No information available.
<b>Carcinogenicity</b>	No information available.

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

Chemical name	ACGIH	IARC	NTP	OSHA
Isopropyl alcohol 67-63-0	-	Group 3	-	-
Limonene 5989-27-5	-	Group 3	-	X
Coumarin 91-64-5	-	Group 3	-	-
Benzyl acetate 140-11-4	-	Group 3	-	-

#### Legend

##### IARC (International Agency for Research on Cancer)

Group 3 - Not Classifiable as to Carcinogenicity in Humans

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

X - Present

<b>Reproductive toxicity</b>	Contains a known or suspected reproductive toxin. Classification based on data available for ingredients. Suspected of damaging fertility or the unborn child.
<b>STOT - single exposure</b>	No information available.
<b>STOT - repeated exposure</b>	No information available.

**Target organ effects** Respiratory system. Eyes. Skin. Central nervous system.

**Aspiration hazard** No information available.

**Other adverse effects** No information available.

**Interactive effects** No information available.

## 12. Ecological information

**Ecotoxicity** Harmful to aquatic life with long lasting effects. Harmful to aquatic life.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Hexylene glycol 107-41-5	-	LC50: 10500 - 11000mg/L (96h, Pimephales promelas) LC50: =10000mg/L (96h, Lepomis macrochirus) LC50: =8690mg/L (96h, Pimephales promelas) LC50: =10700mg/L (96h, Pimephales promelas)	-	EC50: 2700 - 3700mg/L (48h, Daphnia magna)
Isopropyl alcohol 67-63-0	EC50: >1000mg/L (96h, Desmodesmus subspicatus) EC50: >1000mg/L (72h, Desmodesmus subspicatus)	LC50: =9640mg/L (96h, Pimephales promelas) LC50: =11130mg/L (96h, Pimephales promelas) LC50: >1400000µg/L (96h, Lepomis macrochirus)	-	EC50: =13299mg/L (48h, Daphnia magna)
Phenethyl alcohol 60-12-8	EC50: =490mg/L (72h, Desmodesmus subspicatus)	-	-	EC50: =287.17mg/L (48h, Daphnia magna)
Dipropylene glycol monomethyl ether 34590-94-8	-	LC50: >10000mg/L (96h, Pimephales promelas)	-	LC50: =1919mg/L (48h, Daphnia magna)
Nerol 106-25-2	-	LC50: =20.3mg/L (96h, Danio rerio)	-	-
Linalyl acetate 115-95-7	-	LC50: =11mg/L (96h, Cyprinus carpio)	-	-
Linalool 78-70-6	EC50: =88.3mg/L (96h, Desmodesmus subspicatus)	LC50: =27.8mg/L (96h, Oncorhynchus mykiss)	-	EC50: =20mg/L (48h, Daphnia magna)
Limonene 5989-27-5	-	LC50: 0.619 - 0.796mg/L (96h, Pimephales promelas) LC50: =35mg/L (96h, Oncorhynchus mykiss)	-	-
Geraniol 106-24-1	-	LC50: =22mg/L (96h, Danio rerio)	-	-
Ethyl methylphenylglycidate 77-83-8	-	LC50: =4.2mg/L (96h, Oncorhynchus mykiss)	-	-
Citral 5392-40-5	EC50: =16mg/L (72h, Desmodesmus)	-	-	EC50: =7mg/L (48h, Daphnia magna)

	subspicatus) EC50: =19mg/L (96h, Desmodemus subspicatus)			
Benzyl benzoate 120-51-4	-	LC50: =2.32mg/L (96h, Danio rerio)	-	-
4-tert-Butylcyclohexyl acetate 32210-23-4	-	LC50: =8.6mg/L (96h, Cyprinus carpio)	-	-
Linalyl acetate 115-95-7	-	LC50: =11 mg/L (96h, Cyprinus carpio)	-	-
Geraniol 106-24-1	-	LC50: =22mg/L (96h, Danio rerio)	-	-
p-t-Butyl-alpha-methylhydroxy cinnamaldehyde 80-54-6	-	LC50: 2.2 - 4.6mg/L (96h, Brachydanio rerio)	-	EC50: =10.7mg/L (48h, Daphnia magna)
p-Methylanisole 104-93-8	EC50: =320mg/L (72h, Desmodemus subspicatus) EC50: =390mg/L (96h, Desmodemus subspicatus)	-	-	EC50: =44.2mg/L (48h, Daphnia magna Straus)
Butylphenyl Methylpropional 80-54-6	-	LC50: 2.2 - 4.6mg/L (96h, Brachydanio rerio)	-	EC50: =10.7mg/L (48h, Daphnia magna)
Benzyl salicylate 118-58-1	-	LC50: =1.03mg/L (96h, Danio rerio)	-	-
6,7-Dihydro-1,1,2,3,3-pentame thyl-4(5H)-indanone 33704-61-9	-	LC50: =10.3mg/L (96h, Danio rerio)	-	-
2-Methyundecanal 110-41-8	-	LC50: =0.35mg/L (96h, Oncorhynchus mykiss)	-	-

**Persistence and degradability** No information available.

#### Bioaccumulation

#### Component Information

Chemical name	Partition coefficient
Hexylene glycol 107-41-5	<0.14
Isopropyl alcohol 67-63-0	0.05
Phenethyl alcohol 60-12-8	1.36
Dipropylene glycol monomethyl ether 34590-94-8	0.35
$\beta$ -Naphthyl ethyl ether 93-18-5	3.747
Tetramethyl Acetyloctahydronaphthalenes 54464-57-2	5.7
Nerol 106-25-2	2.76
Linalyl acetate 115-95-7	3.9
Linalool 78-70-6	2.9
Limonene 5989-27-5	4.38
Hexyl salicylate	5.5

6259-76-3	
Geranyl Acetate 105-87-3	4.04
Geraniol 106-24-1	2.6
gamma-Undecalactone 104-67-6	3.6
Ethyl methylphenylglycidate 77-83-8	2.4 2.8
Citral 5392-40-5	2.76
Benzyl benzoate 120-51-4	3.97
Benzyl acetate 140-11-4	1.96
a-Isomethyl ionone 127-51-5	4.288
Acetyl cedrene 32388-55-9	>=5.6 - <=5.9
4-tert-Butylcyclohexyl acetate 32210-23-4	4.8
1,3,4,6,7,8-Hexahydro-4,6,6,7,8,8-hexamethylcyclopenta-gamma -2-benzopyran 1222-05-5	5.3
Linalyl acetate 115-95-7	3.9
Geraniol 106-24-1	2.6
Hexyl salicylate 6259-76-3	5.5
p-t-Butyl-alpha-methylhydroxycinnamaldehyde 80-54-6	4.2
p-Methylanisole 104-93-8	2.8
Lauricaldehyde 112-54-9	4.9
Citronellol 106-22-9	3.41
Citronellal 106-23-0	3.62
Cinnamaldehyde 104-55-2	2.1065 1.83
Butylphenyl Methylpropional 80-54-6	4.2
Benzyl salicylate 118-58-1	4
alpha-Methyl-1,3-benzodioxole-5-propionaldehyde 1205-17-0	2.4
6,7-Dihydro-1,1,2,3,3-pentamethyl-4(5H)-indanone 33704-61-9	4.2
2-Methyundecanal 110-41-8	4.9

Other adverse effects No information available.

### 13. Disposal considerations

**Waste treatment methods**

**Waste from residues/unused products** Should not be released into the environment. Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

**Contaminated packaging** Do not reuse empty containers.

**California Hazardous Waste Status** This product contains one or more substances that are listed with the State of California as a hazardous waste.

**14. Transport information**

**DOT** Not regulated

**IATA** Not regulated

**IMDG** Not regulated

**15. Regulatory information****International Inventories**

Contact supplier for inventory compliance status

**US Federal Regulations****SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

Chemical name	SARA 313 - Threshold Values %
Isopropyl alcohol - 67-63-0	1.0
Dipropylene glycol monomethyl ether - 34590-94-8	1.0

**SARA 311/312 Hazard Categories**

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

**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, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund 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.

**US State Regulations****California Proposition 65**

This product does not contain any Proposition 65 chemicals.

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

Chemical name	New Jersey	Massachusetts	Pennsylvania
Dipropylene glycol 25265-71-8	-	-	X
Hexylene glycol 107-41-5	X	X	X
Isopropyl alcohol 67-63-0	X	X	X
Dipropylene glycol monomethyl ether 34590-94-8	X	X	X
Benzyl acetate 140-11-4	X	-	-

**U.S. EPA Label Information**

EPA Pesticide Registration Number Not applicable

**16. Other information**

**NFPA** Health hazards 2 Flammability 1 Instability 0 Special hazards -  
**HMIS** Health hazards 2 \* Flammability 1 Physical hazards 0 Personal protection X  
*Chronic Hazard Star Legend \* = Chronic Health Hazard*

**Key or legend to abbreviations and acronyms used in the safety data sheet****Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)  
Ceiling Maximum limit value \* Skin designation

**Key literature references and sources for data used to compile the SDS**

Agency for Toxic Substances and Disease Registry (ATSDR)  
U.S. Environmental Protection Agency ChemView Database  
European Food Safety Authority (EFSA)  
EPA (Environmental Protection Agency)  
Acute Exposure Guideline Level(s) (AEGl(s))  
U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act  
U.S. Environmental Protection Agency High Production Volume Chemicals  
Food Research Journal  
Hazardous Substance Database  
International Uniform Chemical Information Database (IUCLID)  
Japan GHS Classification  
Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)  
NIOSH (National Institute for Occupational Safety and Health)  
National Library of Medicine's ChemID Plus (NLM CIP)  
National Library of Medicine's PubMed database (NLM PUBMED)  
National Toxicology Program (NTP)  
New Zealand's Chemical Classification and Information Database (CCID)  
Organization for Economic Co-operation and Development Environment, Health, and Safety Publications  
Organization for Economic Co-operation and Development High Production Volume Chemicals Program  
Organization for Economic Co-operation and Development Screening Information Data Set  
World Health Organization

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**Disclaimer**

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, use, 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.

**End of Safety Data Sheet**