

# Material Safety Data Sheet

Issuing Date 07-Feb-2011

Revision Date

Revision Number 0

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name**

**Fragrances**

**Synonyms**

Apple Blossom, Berry, Eucalyptus, Gardenia, Lemon, Orange, Pine, Spice, Vanilla, Violet, Lavender Juniper, Orange Ginger, Mandarin Rosewood, Tea Tree Mint

**Manufacturer Address**

Rexair LLC  
230 Seventh Street  
Cadillac, MI 49601 USA  
TEL: 231-775-3413

**Distributor**

Rexair LLC  
50 W. Big Beaver  
Suite 350  
Troy, MI 48084 USA  
TEL: 248-643-7222

**Emergency Telephone Number**

248-643-7222

## 2. HAZARDS IDENTIFICATION

**WARNING!**

### Emergency Overview

May be harmful if inhaled  
May cause skin, eye, and respiratory tract irritation  
May cause sensitization by skin contact  
May cause central nervous system depression

**Appearance** Clear

**Physical State** Liquid.

**Odor** No information available

**Potential Health Effects**

**Principle Routes of Exposure**

Inhalation. Skin contact. Eye contact.

**Acute Toxicity**

**Eyes**  
**Skin**

May cause irritation.

May cause irritation. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons.

**Inhalation**  
**Ingestion**

May be harmful if inhaled. May cause irritation of respiratory tract.

Ingestion may cause irritation to mucous membranes.

**Chronic Effects**

Repeated contact may cause allergic reactions in very susceptible persons.

**Aggravated Medical Conditions**

Pre-existing eye disorders. Skin disorders. Respiratory disorders. Central nervous system.

**Interactions with Other Chemicals**

Use of alcoholic beverages may enhance toxic effects.

**Environmental Hazard**

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. See Section 12 for additional Ecological Information.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %
Hexylene glycol	107-41-5	5-10
Terpenes and Terpenoids, sweet orange-oil	68647-72-3	3-7
Hexyl salicylate	6259-76-3	1-5
2-Propenal, 2-methyl-3-phenyl-	101-39-3	1-5

.beta.-Pinene	127-91-3	0.1-1
Eugenol	97-53-0	0.1-1
Coumarin	91-64-5	0.1-1
.alpha.-Pinene	80-56-8	0.1-1
Citronellol	106-22-9	0.1-1
Geraniol	106-24-1	0.1-1

#### 4. FIRST AID MEASURES

<b>General Advice</b>	Immediate medical attention is not required. If symptoms persist, call a physician.
<b>Eye Contact</b>	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician.
<b>Skin Contact</b>	Wash off immediately with soap and plenty of water. In the case of skin irritation or allergic reactions see a physician.
<b>Inhalation</b>	Move to fresh air. Aspiration into lungs can produce severe lung damage. If symptoms arise, call a physician
<b>Ingestion</b>	Do NOT induce vomiting. Rinse mouth. Drink plenty of water. If symptoms persist, call a physician.
<b>Notes to Physician</b>	Treat symptomatically.
<b>Protection of First-aiders</b>	Use personal protective equipment.

#### 5. FIRE-FIGHTING MEASURES

<b>Flammable Properties</b>	Not flammable.			
<b>Flash Point</b>	Not determined.			
<b>Suitable Extinguishing Media</b>	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.			
<b>Explosion Data</b>				
<b>Sensitivity to Mechanical Impact</b>	None			
<b>Sensitivity to Static Discharge</b>	None			
<b>Protective Equipment and Precautions for Firefighters</b>	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.			
<b>NFPA</b>	<b>Health Hazard 2</b>	<b>Flammability 0</b>	<b>Instability 0</b>	<b>Physical and Chemical Hazards -</b>
<b>HMIS</b>	<b>Health Hazard 2</b>	<b>Flammability 0</b>	<b>Physical Hazard 0</b>	<b>Personal Protection -</b>

## 6. ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions</b>	Ensure adequate ventilation. Use personal protective equipment. Avoid contact with skin, eyes and clothing. Wash thoroughly after handling.
<b>Environmental Precautions</b>	Prevent entry into waterways, sewers, basements or confined areas. Do not flush into surface water or sanitary sewer system.
<b>Methods for Containment</b>	Dike far ahead of liquid spill for later disposal.
<b>Methods for Cleaning Up</b>	Cover liquid spill with sand, earth or other noncombustible absorbent material. Cover powder spill with plastic sheet or tarp to minimize spreading. Pick up and transfer to properly labeled containers. Soak up with inert absorbent material.

## 7. HANDLING AND STORAGE

<b>Handling</b>	Wear personal protective equipment. Do not breathe vapors or spray mist. Do not eat, drink or smoke when using this product. Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing before re-use.
<b>Storage</b>	Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children. Keep containers tightly closed in a cool, well-ventilated place.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Citral 5392-40-5	TWA: 5 ppm inhalable fraction and vapor S*		
.beta.-Pinene 127-91-3	TWA: 20 ppm		
.alpha.-Pinene 80-56-8	TWA: 20 ppm		
Hexylene glycol 107-41-5	Ceiling: 25 ppm	(vacated) Ceiling: 25 ppm (vacated) Ceiling: 125 mg/m <sup>3</sup>	Ceiling: 125 mg/m <sup>3</sup> Ceiling: 25 ppm

*OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits. ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value. NIOSH IDLH: Immediately Dangerous to Life or Health.*

<b>Other Exposure Guidelines</b>	Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).
<b>Engineering Measures</b>	Showers. Eyewash stations.
<b>Personal Protective Equipment</b>	
<b>Eye/Face Protection</b>	Tightly fitting safety goggles.
<b>Skin and Body Protection</b>	Wear protective gloves/clothing.
<b>Respiratory Protection</b>	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.
<b>Hygiene Measures</b>	Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	Clear.	<b>Odor</b>	No information available
<b>Odor Threshold</b>	No information available.	<b>Physical State</b>	Liquid
<b>pH</b>	No information available.		
<b>Flash Point</b>	No information available.	<b>Autoignition Temperature</b>	No information available.
<b>Decomposition Temperature</b>	No information available.	<b>Boiling Point/Boiling Range</b>	No information available
<b>Melting Point/Range</b>	No information available		
<b>Flammability Limits in Air</b>	No information available.	<b>Explosion Limits</b>	No information available.
<b>Solubility</b>	No information available	<b>Evaporation Rate</b>	No information available
<b>Vapor Pressure</b>	No data available	<b>Vapor Density</b>	No data available
<b>VOC Content (%)</b>	99		

## 10. STABILITY AND REACTIVITY

<b>Stability</b>	Stable under recommended storage conditions.
<b>Incompatible Products</b>	Acids. Bases. Strong oxidizing agents.
<b>Conditions to Avoid</b>	Excessive heat.
<b>Hazardous Decomposition Products</b>	Carbon monoxide (CO). Carbon dioxide (CO <sub>2</sub> ).
<b>Hazardous Polymerization</b>	Hazardous polymerization does not occur.

## 11. TOXICOLOGICAL INFORMATION

### Acute Toxicity

**Product Information** No acute toxicity information is available for this product.

### Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Hexyl salicylate	5 g/kg ( Rat )	5 g/kg ( Rabbit )	
.beta.-Pinene	4700 mg/kg ( Rat )		
.alpha.-Pinene	2100 mg/kg ( Rat )	5000 mg/kg ( Rat )	
2-Propenal, 2-methyl-3-phenyl-	2050 mg/kg ( Rat )	5000 mg/kg ( Rabbit )	
Eugenol	1930 mg/kg ( Rat )		
Hexylene glycol	3692 mg/kg ( Rat )	12,3000 mg/kg ( Rabbit )	
Geraniol	3600 mg/kg ( Rat )	5000 mg/kg ( Rabbit )	
Coumarin	293 mg/kg ( Rat )		
Citronellol	3450 mg/kg ( Rat )	2650 mg/kg ( Rabbit )	

### Chronic Toxicity

**Chronic Toxicity** Repeated contact may cause allergic reactions in very susceptible persons.

**Carcinogenicity** This product contains one or more substances which are classified by IARC as carcinogenic to humans (Group 1), probably carcinogenic to humans (Group 2A) or possibly carcinogenic to humans (Group 2B).

Chemical Name	ACGIH	IARC	NTP	OSHA
Eugenol		Group 3		
Coumarin		Group 3		

**IARC: (International Agency for Research on Cancer)**

Group 3: Not Classifiable as to its Carcinogenicity to Humans

**Target Organ Effects** Central nervous system (CNS). Respiratory system. Eyes. Skin.

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Hexylene glycol		LC50 96 h: 10500-11000 mg/L flow-through (Pimephales promelas) LC50 96 h: = 10000 mg/L static (Lepomis macrochirus) LC50 96 h: = 10700 mg/L static (Pimephales promelas) LC50 96 h: = 8690 mg/L flow-through (Pimephales promelas)	EC50 = 3038 mg/L 5 min	EC50 48 h: 2700 - 3700 mg/L (Daphnia magna)
Eugenol		LC50 67.6 mg/l Oncorhynchus kisutch (Coho salmon) 96 h static		
.alpha.-Pinene		LC50 96 h: = 0.28 mg/L static (Pimephales promelas)		LC50 48 h: = 41 mg/L (Daphnia magna)

Chemical Name	Log Pow
Hexylene glycol	0.13986
Eugenol	2.27
.alpha.-Pinene	4.1

## 13. DISPOSAL CONSIDERATIONS

### Waste Disposal Methods

This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

### Contaminated Packaging

Do not re-use empty containers.

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

**TDG** Not regulated

**MEX** Not regulated

## 15. REGULATORY INFORMATION

### International Inventories

<b>15. REGULATORY INFORMATION</b>
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<b>TSCA</b>	Complies
<b>DSL</b>	Complies
<b>IECSC</b>	Complies
<b>KECL</b>	Complies
<b>PICCS</b>	Complies
<b>AICS</b>	Complies

**Legend**

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

**U.S. Federal Regulations**

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**

<b>Acute Health Hazard</b>	Yes
<b>Chronic Health Hazard</b>	Yes
<b>Fire Hazard</b>	No
<b>Sudden Release of Pressure Hazard</b>	No
<b>Reactive Hazard</b>	No

**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.

**U.S. 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	Illinois	Rhode Island
.alpha.-Pinene	X	X	X		
Dipropylene glycol			X		
Hexylene glycol	X	X	X		X

**International Regulations**

Chemical Name	Carcinogen Status	Exposure Limits
Hexylene glycol		Mexico: Ceiling= 125 mg/m <sup>3</sup> Mexico: Ceiling= 25 ppm

**Canada**

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

**WHMIS Hazard Class**

D2B Toxic materials

**16. OTHER INFORMATION**

**Prepared By** Product Stewardship  
23 British American Blvd.  
Latham, NY 12110  
1-800-572-6501

**Issuing Date** 07-Feb-2011

**Revision Date**

**Revision Note** Initial Release.

**General Disclaimer**

The information provided on this MSDS 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

**End of Safety Data Sheet**