

# Material Safety Data Sheet

## Envirobead™ - Peach

### 1. Product and company identification

<b>Product name</b>	: Envirobead™ - Peach	<b>Code</b>	
<b>Trade name</b>	: Envirobead™ - Peach	PL 603/100	
<b>Material uses</b>	: Autoclave deodorant to be used when autoclaving laboratory waste (one capsule per autoclave load).		
<b>Code</b>	: PL 603/100		
<b>Supplier/Manufacturer</b>	: Pro-Lab Diagnostics 20 Mural Street, Unit 4 Richmond Hill, ON Canada L4B 1K3 Tel: +1-905-731-0300 Fax: +1-905-731-0206 www.pro-lab.com		
<b>MSDS authored by</b>	: KMK Regulatory Services Inc.		
<b><u>In case of emergency</u></b>	: 905-731-0300 –Monday to Friday 8:30 am to 5:00 pm Eastern Standard Time. 416-230-0692 –Outside the above hours.		

### 2. Hazards identification

#### Emergency overview

<b>Physical state</b>	: Liquid contained in a gelatin capsule.
<b>Color</b>	: Clear.
<b>Odor</b>	: Peach.
<b>Signal word</b>	: WARNING !
<b>Hazard statements</b>	: COMBUSTIBLE LIQUID AND VAPOR. CAUSES RESPIRATORY TRACT, EYE AND SKIN IRRITATION. MAY CAUSE ALLERGIC SKIN REACTION. MAY BE HARMFUL IF ABSORBED THROUGH SKIN OR IF SWALLOWED. CONTAINS MATERIAL THAT CAN CAUSE TARGET ORGAN DAMAGE. CANCER HAZARD - CONTAINS MATERIAL WHICH CAN CAUSE CANCER.
<b>Precautionary measures</b>	: Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Do not eat, drink or smoke when using this product. Avoid contact with eyes, skin and clothing. Avoid prolonged contact with eyes, skin and clothing. Keep away from heat and flame. Keep container tightly closed. Use personal protective equipment as required. Wash thoroughly after handling.
<b>OSHA/HCS status</b>	: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
<b>Routes of entry</b>	: Dermal contact. Eye contact. Inhalation. Ingestion.
<b><u>Potential acute health effects</u></b>	
<b>Inhalation</b>	: Irritating to respiratory system. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
<b>Ingestion</b>	: May be harmful if swallowed.
<b>Skin</b>	: Irritating to skin. May be harmful if absorbed through skin.
<b>Eyes</b>	: Severely irritating to eyes. Risk of serious damage to eyes.
<b><u>Potential chronic health effects</u></b>	

## 2. Hazards identification

- Chronic effects** : Contains material that can cause target organ damage. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
- Carcinogenicity** : Contains material which can cause cancer. Risk of cancer depends on duration and level of exposure.
- Mutagenicity** : No known significant effects or critical hazards.
- Teratogenicity** : No known significant effects or critical hazards.
- Developmental effects** : No known significant effects or critical hazards.
- Fertility effects** : No known significant effects or critical hazards.
- Target organs** : Contains material which causes damage to the following organs: gastrointestinal tract, upper respiratory tract, skin, eye, lens or cornea.  
Contains material which may cause damage to the following organs: central nervous system (CNS).

### Over-exposure signs/symptoms

- Inhalation** : Adverse symptoms may include the following:  
respiratory tract irritation  
coughing
- Ingestion** : No specific data.
- Skin** : Adverse symptoms may include the following:  
irritation  
redness
- Eyes** : Adverse symptoms may include the following:  
pain or irritation  
watering  
redness
- Medical conditions aggravated by over-exposure** : Pre-existing skin disorders and disorders involving any other target organs mentioned in this MSDS as being at risk may be aggravated by over-exposure to this product.

See toxicological information (Section 11)

## 3. Composition/information on ingredients

### United States

Name	CAS number	%
2-Phenylethanol	60-12-8	10 - 30
Undecan-4-olide	104-67-6	5 - 10
Terpenes and Terpenoids, sweet orange-oil	68647-72-3	5 - 10
2-Benzylideneheptanal	122-40-7	5 - 10
Musk xylene	81-15-2	5 - 10
2-(4-tert-Butylbenzyl)propionaldehyde	80-54-6	5 - 10
3-Methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one	127-51-5	1 - 5
4,7-Methano-1h-inden-6-ol, 3a,4,5,6,7,7a-hexahydro-, propanoate	17511-60-3	1 - 5
1,3,4,6,7,8-Hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran	1222-05-5	1 - 5
Geraniol	106-24-1	1 - 5
1,1'-Oxydipropan-2-ol	110-98-5	1 - 5
Benzeneethanol, α,α-dimethyl-, acetate	151-05-3	1 - 5
Terpineol	8000-41-7	1 - 5
Benzyl acetate	140-11-4	1 - 5
Acetaldehyde	75-07-0	0.1 - 1

### 3. Composition/information on ingredients

#### Canada

Name	CAS number	%
2-Phenylethanol	60-12-8	10 - 30
Terpenes and Terpenoids, sweet orange-oil	68647-72-3	5 - 10
2-Benzylideneheptanal	122-40-7	5 - 10
Musk xylene	81-15-2	5 - 10
2-(4-tert-Butylbenzyl)propionaldehyde	80-54-6	5 - 10
3-Methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one	127-51-5	1 - 5
1,3,4,6,7,8-Hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran	1222-05-5	1 - 5
Geraniol	106-24-1	1 - 5
Terpineol	8000-41-7	1 - 5
Benzyl acetate	140-11-4	1 - 5
Acetaldehyde	75-07-0	0.1 - 1

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

### 4. First aid measures

- Eye contact** : Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 20 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.
- Skin contact** : In case of contact, immediately flush skin with plenty of water for at least 20 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention immediately.
- Inhalation** : Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.
- Ingestion** : Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.
- Notes to physician** : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

### 5. Fire-fighting measures

- Flammability of the product** : Combustible liquid.
- Extinguishing media**
  - Suitable** : Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam.
  - Not suitable** : Do not use water jet.
- Special exposure hazards** : No specific fire or explosion hazard.
- Hazardous thermal decomposition products** : Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide  
nitrogen oxides
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## 6. Accidental release measures

- Personal precautions** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).
- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
- Methods for cleaning up**
- Spill** : Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see section 1 for emergency contact information and section 13 for waste disposal.

## 7. Handling and storage

- Handling** : Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use non-sparking tools. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container.
- Storage** : Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

## 8. Exposure controls/personal protection

### United States

Ingredient	Exposure limits
Benzyl acetate	<b>ACGIH TLV (United States, 2/2010).</b> TWA: 61 mg/m <sup>3</sup> 8 hour(s). TWA: 10 ppm 8 hour(s).
Acetaldehyde	<b>ACGIH TLV (United States, 2/2010).</b> C: 45 mg/m <sup>3</sup> C: 25 ppm <b>OSHA PEL (United States, 6/2010).</b> TWA: 360 mg/m <sup>3</sup> 8 hour(s). TWA: 200 ppm 8 hour(s). <b>OSHA PEL 1989 (United States, 3/1989).</b> TWA: 100 ppm 8 hour(s). TWA: 180 mg/m <sup>3</sup> 8 hour(s). STEL: 150 ppm 15 minute(s). STEL: 270 mg/m <sup>3</sup> 15 minute(s).

### Canada

Occupational exposure limits		TWA (8 hours)			STEL (15 mins)			Ceiling			Notations
Ingredient	List name	ppm	mg/m <sup>3</sup>	Other	ppm	mg/m <sup>3</sup>	Other	ppm	mg/m <sup>3</sup>	Other	
Benzyl acetate	US ACGIH 2/2010	10	61	-	-	-	-	-	-	-	[3]
	AB 4/2009	10	61	-	-	-	-	-	-	-	
	BC 9/2010	10	-	-	-	-	-	-	-	-	
	ON 7/2010	10	61	-	-	-	-	-	-	-	
Acetaldehyde	US ACGIH 2/2010	-	-	-	-	-	-	25	45	-	[3]
	AB 4/2009	-	-	-	-	-	-	25	45	-	
	BC 9/2010	-	-	-	-	-	-	25	-	-	
	ON 7/2010	-	-	-	-	-	-	25	45	-	
	QC 6/2008	-	-	-	25	45	-	-	-	-	

[3]Skin sensitization

Consult local authorities for acceptable exposure limits.

**Recommended monitoring procedures** : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.

**Engineering measures** : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

**Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

### Personal protection

**Respiratory** : A respirator is not needed under normal and intended conditions of product use.

**Hands** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. >8 hours (breakthrough time): Natural rubber (latex).

**Eyes** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts. Recommended: Splash goggles.

**Skin** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.  
Body: Recommended: Lab coat.

## 8. Exposure controls/personal protection

**Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

## 9. Physical and chemical properties

**Physical state** : Liquid contained in a gelatin capsule.  
**Flash point** : Closed cup: 71°C (159.8°F) [Pensky-Martens.]  
**Burning time** : Not applicable.  
**Burning rate** : Not applicable.  
**Auto-ignition temperature** : Not available.  
**Flammable limits** : Not available.  
**Color** : Clear.  
**Odor** : Peach.  
**Taste** : Not available.  
**Molecular weight** : Not applicable.  
**Molecular formula** : Not applicable.  
**pH** : Not available.  
**Boiling/condensation point** : Not available.  
**Melting/freezing point** : Not available.  
**Critical temperature** : Not available.  
**Relative density** : Not available.  
**Vapor pressure** : Not available.  
**Vapor density** : Not available.  
**Volatility** : Not available.  
**Odor threshold** : Not available.  
**Evaporation rate** : Not available.  
**SADT** : Not available.  
**Viscosity** : Not available.  
**Ionicity (in water)** : Not available.  
**Dispersibility properties** : Not available.  
**Solubility** : Not available.  
**Physical/chemical properties comments** : Not available.

## 10. Stability and reactivity

**Chemical stability** : The product is stable.  
**Conditions to avoid** : Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.  
**Incompatible materials** : Reactive or incompatible with the following materials: oxidizing materials, reducing materials, acids and alkalis.  
**Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.  
**Possibility of hazardous reactions** : Under normal conditions of storage and use, hazardous reactions will not occur.

## 11. Toxicological information

### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
2-Phenylethanol	LD50 Dermal	Rabbit	805 mg/kg	-
	LD50 Dermal	Rat	>5000 mg/kg	-
2-Benzylideneheptanal	LD50 Oral	Rat	1500 mg/kg	-
	LD50 Oral	Rat	3730 mg/kg	-
Musk xylene	LD50 Dermal	Rabbit	>15 g/kg	-
	LD50 Oral	Rat	>10 g/kg	-
2-(4-tert-Butylbenzyl)propionaldehyde	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	1390 mg/kg	-
3-Methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
1,3,4,6,7,8-Hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran	LD50 Oral	Rat	>5000 mg/kg	-
	LD50 Dermal	Rat	>5 g/kg	-
Geraniol	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	2.1 g/kg	-
Terpineol	LD50 Oral	Rat	4300 mg/kg	-
Benzyl acetate	LD50 Dermal	Rabbit	>5 g/kg	-
	LD50 Oral	Rat	2490 mg/kg	-
Acetaldehyde	LC50 Inhalation Gas.	Rat	13300 ppm	4 hours
	LD50 Dermal	Rabbit	3540 mg/kg	-
	LD50 Oral	Rat	661 mg/kg	-

### Chronic toxicity

There are no data available.

### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
2-Phenylethanol	Eyes - Mild irritant	Rabbit	-	10 minutes 12 Grams	-
	Eyes - Severe irritant	Rabbit	-	24 hours 750 Micrograms	-
	Skin - Mild irritant	Guinea pig	-	100 Percent	-
	Skin - Moderate irritant	Guinea pig	-	24 hours 100 milligrams	-
2-Benzylideneheptanal	Skin - Moderate irritant	Rabbit	-	24 hours 100 milligrams	-
	Skin - Mild irritant	Guinea pig	-	336 hours 5 Percent	-
	Skin - Moderate irritant	Guinea pig	-	24 hours 100 milligrams	-
Musk xylene	Skin - Severe irritant	Rabbit	-	24 hours 100 milligrams	-
	Skin - Mild irritant	Human	-	48 hours 5 milligrams	-
2-(4-tert-Butylbenzyl)propionaldehyde	Skin - Moderate irritant	Rabbit	-	24 hours 500 milligrams	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500 milligrams	-
1,3,4,6,7,8-Hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran	Skin - Moderate irritant	Rabbit	-	24 hours 500 milligrams	-
	Skin - Mild irritant	Guinea pig	-	30 Percent	-
	Skin - Severe irritant	Guinea pig	-	24 hours 100 milligrams	-
	Skin - Severe irritant	Human	-	48 hours 32 Percent	-
Geraniol	Skin - Severe irritant	Man	-	24 hours 16 milligrams	-
	Skin - Moderate irritant	Rabbit	-	4 hours 0.5 Milliliters	-
	Skin - Severe irritant	Rabbit	-	24 hours 100 milligrams	-
	Skin - Severe irritant	Rabbit	-	12.5 Percent	-
Terpineol	Eyes - Mild irritant	Mammal - species unspecified	-	12.5 Percent	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500 milligrams	-
Benzyl acetate	Skin - Moderate irritant	Rabbit	-	24 hours 100 milligrams	-
Acetaldehyde	Eyes - Severe irritant	Rabbit	-	40 milligrams	-
	Skin - Mild irritant	Rabbit	-	500 milligrams	-

## 11. Toxicological information

### Sensitizer

**Skin** : There are no data available.

**Respiratory** : There are no data available.

### Carcinogenicity

#### Classification

Product/ingredient name	ACGIH	IARC	EPA	NIOSH	NTP	OSHA
Musk xylene	-	3	-	-	-	-
Benzyl acetate	A4	3	-	-	-	-
Acetaldehyde	A3	2B	-	None.	Possible	-

### Mutagenicity

There are no data available.

### Teratogenicity

There are no data available.

### Reproductive toxicity

There are no data available.

## 12. Ecological information

**Ecotoxicity** : No known significant effects or critical hazards.

### Aquatic ecotoxicity

Product/ingredient name	Result	Species	Exposure
Geraniol	Acute LC50 2.6 to 3 mg/L Fresh water	Fish - Salmo trutta - 0.8 g	96 hours
Benzyl acetate	Acute LC50 4000 to 4600 ug/L Fresh water	Fish - Oryzias latipes - Juvenile (Fledgling, Hatchling, Weanling) - 28 to 43 days - 18 to 71 mg	96 hours
	Chronic NOEC 920 ug/L Fresh water	Fish - Oryzias latipes - Larvae - 0 to 3 days	28 days
Acetaldehyde	Acute EC50 236600 ug/L Fresh water	Algae - Navicula seminulum	96 hours
	Acute EC50 4.7 to 6.15 ppm Fresh water	Daphnia - Daphnia magna - <24 hours	48 hours
	Acute LC50 >100000 ug/L Marine water	Crustaceans - Crangon crangon - Adult	48 hours
	Acute LC50 2.2 ppm Fresh water	Fish - Oncorhynchus mykiss	96 hours

### Persistence/degradability

There are no data available.

**Other adverse effects** : No known significant effects or critical hazards.

## 13. Disposal considerations

**Waste disposal** : The generation of waste should be avoided or minimized wherever possible. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

## 14. Transport information

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional information
<b>DOT Classification</b>	Not regulated.	-	-	-		Limited Quantity Exemption
<b>TDG Classification</b>	Not regulated.	-	-	-		Limited Quantity Exemption
<b>IMDG Class</b>	Not regulated.	-	-	-		Limited Quantity Exemption
<b>IATA-DGR Class</b>	Not regulated.	-	-	-		Limited Quantity Exemption

PG\* : Packing group

Exemption to the above classification may apply.

**AERG** : Not applicable.

## 15. Regulatory information

### United States

**HCS Classification** : Combustible liquid  
 Irritating material  
 Sensitizing material  
 Carcinogen  
 Target organ effects

**U.S. Federal regulations** : **TSCA 4(a) final test rules:** Acetaldehyde  
**TSCA 8(a) PAIR:** 2-Benzylideneheptanal; 2-(4-tert-Butylbenzyl)propionaldehyde; 1,1'-oxydipropan-2-ol; 3-cyclohexene-1-carboxaldehyde, dimethyl-; 3-p-cumenyl-2-methylpropionaldehyde; Benzaldehyde; Acetaldehyde  
**TSCA 8(a) IUR Exempt/Partial exemption:** Not determined  
**TSCA 8(d) H and S data reporting:** 2-Benzylideneheptanal; 2-(4-tert-Butylbenzyl)propionaldehyde; 3-cyclohexene-1-carboxaldehyde, dimethyl-; 3-p-cumenyl-2-methylpropionaldehyde; Benzaldehyde; Acetaldehyde  
**United States inventory (TSCA 8b):** All components are listed or exempted.  
**SARA 302/304/311/312 extremely hazardous substances:** No products were found.  
**SARA 302/304 emergency planning and notification:** No products were found.  
**SARA 302/304/311/312 hazardous chemicals:** 2-Phenylethanol; Musk xylene; 1,1'-oxydipropan-2-ol; Benzyl acetate  
**SARA 311/312 MSDS distribution - chemical inventory - hazard identification:** 2-Phenylethanol: Immediate (acute) health hazard, Delayed (chronic) health hazard; Musk xylene: Immediate (acute) health hazard; 1,1'-oxydipropan-2-ol: Immediate (acute) health hazard; Benzyl acetate: Immediate (acute) health hazard, Delayed (chronic) health hazard  
**Clean Water Act (CWA) 311:** Acetaldehyde

**Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs)** : Not listed

**Clean Air Act Section 602 Class I Substances** : Not listed

**Clean Air Act Section 602 Class II Substances** : Not listed

**DEA List I Chemicals (Precursor Chemicals)** : Not listed

**DEA List II Chemicals (Essential Chemicals)** : Not listed

### SARA 313

## 15. Regulatory information

	Product name	CAS number	Concentration
<b>Form R - Reporting requirements</b>	Acetaldehyde	75-07-0	0.1 - 1
<b>Supplier notification</b>	Acetaldehyde	75-07-0	0.1 - 1

SARA 313 notifications must not be detached from the MSDS and any copying and redistribution of the MSDS shall include copying and redistribution of the notice attached to copies of the MSDS subsequently redistributed.

### State regulations

- Massachusetts** : None of the components are listed.  
**New York** : The following components are listed: Acetaldehyde  
**New Jersey** : The following components are listed: Musk xylene; Benzyl acetate; Acetaldehyde  
**Pennsylvania** : The following components are listed: Acetaldehyde

### California Prop. 65

**WARNING:** This product contains a chemical known to the State of California to cause cancer.

Ingredient name	Cancer	Reproductive	No significant risk level	Maximum acceptable dosage level
Acetaldehyde	Yes.	No.	90 µg/day (inhalation)	No.

### Canada

- WHMIS (Canada)** : Class B-3: Combustible liquid with a flash point between 37.8°C (100°F) and 93.3°C (200°F).  
 Class D-2A: Material causing other toxic effects (Very toxic).  
 Class D-2B: Material causing other toxic effects (Toxic).

### Canadian lists

- Canadian NPRI** : None of the components are listed.  
**CEPA Toxic substances** : The following components are listed: Acetaldehyde  
**Canada inventory** : All components are listed or exempted.

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

## 16. Other information

- Label requirements** : COMBUSTIBLE LIQUID AND VAPOR. CAUSES RESPIRATORY TRACT, EYE AND SKIN IRRITATION. MAY CAUSE ALLERGIC SKIN REACTION. MAY BE HARMFUL IF ABSORBED THROUGH SKIN OR IF SWALLOWED. CONTAINS MATERIAL THAT CAN CAUSE TARGET ORGAN DAMAGE. CANCER HAZARD - CONTAINS MATERIAL WHICH CAN CAUSE CANCER.

- Hazardous Material Information System (U.S.A.)** : **Health** : 2 \* **Flammability** : 2 **Physical hazards** : 0

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

- National Fire Protection Association (U.S.A.)** : **Health** : 2 **Flammability** : 2 **Instability** : 0

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## 16. Other information

Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

### History

**Date of issue mm/dd/yyyy** : 10/15/2011  
**Date of previous issue** : 08/15/2008  
**Version** : 3  
**Revised Section(s)** : 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16.

### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.