

## SAFETY DATA SHEET

### 507355 MELYSFLOR

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#### 1. IDENTIFICATION

**Product Description:** MELYSFLOR  
**CAS #** MIXTURE

**Other means of identification**  
**Vigon Item #** 507355

**Recommended use** Concentrated aromatic ingredient which may be used fragrance compounds according to legal and IFRA guidelines.

**Recommended restrictions** For Manufacturing Use Only

Company  
Vigon International, Inc.  
127 Airport Road  
E. Stroudsburg, PA 18301  
For information call: 570-476-6300  
Web Site: www.vigon.com

24 Hour Emergency Response Information  
INFOTRAC (ACCT# 78928);  
1-800-535-5053 WITHIN THE U.S.A.  
1-352-323-3500 OUTSIDE THE U.S.A.

#### 2. HAZARD(S) IDENTIFICATION

**Physical hazards** Not classified.

**Health hazards** Serious eye damage/eye irritation Category 2A  
Sensitization, skin Category 1

**Environmental hazards** Hazardous to the aquatic environment, acute hazard Category 1  
Hazardous to the aquatic environment, long-term hazard Category 1

#### Label elements



**Signal word** Warning

#### Hazard statement

H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.  
H400 Very toxic to aquatic life.  
H410 Very toxic to aquatic life with long lasting effects.

#### Precautionary statement

##### Prevention

P261 Avoid breathing mist or vapor.  
P264 Wash thoroughly after handling.  
P272 Contaminated work clothing should not be allowed out of the workplace.  
P273 Avoid release to the environment.  
P280 Wear protective gloves.

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P280 Wear eye/face protection.

### Response

P302 + P352 IF ON SKIN: Wash with plenty of water.

P305 + P351 +  
P338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.

P337 + P313 If eye irritation persists: Get medical advice/attention.

P362 + P364 Take off contaminated clothing and wash it before reuse.

P391 Collect spillage.

### Storage

Store away from incompatible materials.

### Disposal

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

### Hazard(s) not otherwise classified (HNOC)

None known.

### Supplemental information

29.55% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 21.85% of the mixture consists of component(s) of unknown long-term hazards to the aquatic environment.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### Mixtures

Chemical name	Common name and synonyms	CAS number	%
COUMARIN	COUMARINIC LACTONE COUMARINIC ANHYDRIDE 2H-Benzopyran-2-one chromen-2-one	91-64-5	10 - < 15
METHYL CEDRYL KETONE	(R)-9- acetyl cedr-8-ene (R)-1-( cedr-8-en-9-yl) ethanone	32388-55-9	10 - < 15
BENZYL ACETATE	PHENYL METHYL ACETATE a-acetoxytoluene benzenemethanol acetate benzenemethanol ethanoate benzyl ethanoate	140-11-4	7.5 - < 10
HYDROGENATED METHYL ROSINATE		8050-15-5	7.5 - < 10
3-METHYBUTYL SALICYLATE	iso amyl o-hydroxybenzoate 3- methyl butyl o-hydroxybenzoate iso pentyl 2-hydroxybenzoate iso pentyl ortho-hydroxybenzoate iso pentyl-2-hydroxyphenyl methanoate	87-20-7	5 - < 7.5
EUGENOL	5-ALLYL-2-HYDROXY-ANISOL 2-METHOXY-4-(2-PROPENYL)-PHENOL 1-HYDROXY-2-METHOXY-4-ALLYLBENZE NE 2-METHOXY-4-ALLYLPHENOL	97-53-0	5 - < 7.5

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Chemical name	Common name and synonyms	CAS number	%
PHENYL ETHYL ALCOHOL	BENZYL CARBINOL 2-Phenylethanol	60-12-8	5 - < 7.5
LINALYL ACETATE	3,7- dimethylocta-1,6-dien-3-yl acetate (1)-1,5-dimethyl-1-vinyl hex-4-enyl acetate LINALOOL ACETATE	115-95-7	2.5 - < 5
1H-3A,7- METHANOAZULEN-6-OL, OCTAHYDRO-3,6,8,8-TETRA METHYL-, (3R,3AS,6R,7R,8AS)-	(3R-(3alpha,3abeta, 6alpha,7beta,8aalpaha))- octahydro-3,6,8,8-tetramethyl-1H-3a,7- methanoazulen-6-ol Cedrol	77-53-2	1 - < 2.5
BENZYL BENZOATE	benzyl benzene carboxylate phenyl methyl benzoate BENZYL PHENYL FORMATE	120-51-4	1 - < 2.5
CEDRENE ALPHA	1H-3a,7- methanoazulene, 2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-, (3R,3aS,7S,8aS)- laevo-alpha- cedrene	469-61-4	1 - < 2.5
DIPENTENE	p- mentha-1,8-diene D,L- limonene 1- methyl-4-prop-1-en-2-ylcyclohexene	138-86-3	1 - < 2.5
HEXYL SALICYLATE	hexyl o-hydroxybenzoate hexyl 2-hydroxy-1-benzene carboxylate hexyl 2-hydroxybenzoate	6259-76-3	1 - < 2.5
LINALOOL	2,6-DIMETHYL-2,7-OCTADIENE-6-OL 1,6-Octadien-3-ol, 3,7-dimethyl- 3,7-Dimethylocta-1,6-dien-3-ol LINALYL ALCOHOL	78-70-6	1 - < 2.5
PHENYL ETHYL SALICYLATE	Benzoic acid,2-hydroxy-,2-phenylethyl ester 2- phenylethyl 2-hydroxybenzoate	87-22-9	1 - < 2.5
2-CYCLOHEXEN-1-ONE, 2-METHYL-5- (1-METHYLETHENYL)-	delta-p- mentha-1(6),8-dien-2-one p- mentha-6,8-dien-2-one 2- methyl-5-(1-methylethenyl)- 2-cyclohexen-1-one	99-49-0	0.5< 1
16- oxacyclohexadecan-1-one	PENTADECALACTONE Oxacyclohexadecan-2-one Pentadecan-15-olide OMEGA-PENTADECALACTONE	106-02-5	0.1< 0.5
BENZYL CINNAMATE	BENZYL ALCOHOL CINNAMATE BENZYL-3-PHENYLPROPENOATE BENZYL BETA-PHENYLACRYLATE benzyl 3-phenylprop-2-enoate	103-41-3	0.1< 0.5



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Chemical name	Common name and synonyms	CAS number	%
GERANYL ACETATE	geranyl ethanoate 2,6-DIMETHYL-2,6-OCTADIENE-8-YL ACETATE 3,7-DIMETHYL-2-TRANS-6-OCTADIENYL ACETATE [(2E)-3,7- dimethylocta-2,6-dienyl] acetate	105-87-3	0.1 < 0.5
PINENE BETA	7,7-dimethyl-4-methylidenebicyclo[3.1.1] heptane (1)-6,6- dimethyl-2-methylene bicyclo(3.1.1) heptane	127-91-3	0.1 < 0.5
Other components below reportable levels			20 - < 30

#### 4. FIRST-AID MEASURES

<b>Inhalation</b>	If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. For breathing difficulties, oxygen may be necessary. Call a physician if symptoms develop or persist.
<b>Skin contact</b>	Take off immediately all contaminated clothing. Get medical attention if irritation develops and persists. Wash skin thoroughly with soap and water for several minutes.
<b>Eye contact</b>	Remove contact lenses, if present and easy to do. Get medical attention if irritation develops and persists. Promptly wash eyes with plenty of water while lifting the eye lids.
<b>Ingestion</b>	Call a physician or poison control center immediately. If swallowed, rinse mouth with water (only if the person is conscious). Do not induce vomiting. If vomiting occurs, the head should be kept low so that stomach vomit doesn't enter the lungs.
<b>Most important symptoms/effects, acute and delayed</b>	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause an allergic skin reaction. Dermatitis. Rash.
<b>Indication of immediate medical attention and special treatment needed</b>	Not available.
<b>General information</b>	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

#### 5. FIRE-FIGHTING MEASURES

<b>Suitable extinguishing media</b>	Water spray, fog, CO <sub>2</sub> , dry chemical, or alcohol resistant foam.
<b>Unsuitable extinguishing media</b>	Do not use a solid water stream as it may scatter and spread fire.
<b>Specific hazards arising from the chemical</b>	Fire may produce irritating, corrosive and/or toxic gases.
<b>Special protective equipment and precautions for firefighters</b>	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Structural firefighters protective clothing will only provide limited protection. Wear self-contained breathing apparatus with a full facepiece operated in the positive pressure demand mode when fighting fires.
<b>Fire fighting equipment/instructions</b>	In case of fire and/or explosion do not breathe fumes. Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do so without risk. Water runoff can cause environmental damage. Ventilate closed spaces before entering them. Keep run-off water out of sewers and water sources. Dike for water control.



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**Specific methods** Use water spray to cool unopened containers.  
**General fire hazards** Static charges generated by emptying package in or near flammable vapor may cause flash fire.

### 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures** Keep unnecessary personnel away. Eliminate all sources of ignition. Avoid contact with skin or inhalation of spillage, dust or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them.

**Methods and materials for containment and cleaning up** Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area). Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb with inert absorbent such as dry clay, sand or diatomaceous earth, commercial sorbents, or recover using pumps.

The product is immiscible with water and will spread on the water surface.

**Large Spills:** Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Prevent product from entering drains. Do not allow material to contaminate ground water system. Absorb in vermiculite, dry sand or earth and place into containers.

**Small Spills:** Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills in original containers for re-use. This material and its container must be disposed of as hazardous waste. Collect and dispose of spillage as indicated in section 13 of the SDS.

**Environmental precautions** Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid release to the environment. Retain and dispose of contaminated wash water. Contact local authorities in case of spillage to drain/aquatic environment.

### 7. HANDLING AND STORAGE

**Precautions for safe handling** Do not handle or store near an open flame, heat or other sources of ignition. All equipment used when handling the product must be grounded. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Wash thoroughly after handling. Take precautionary measures against static discharges. Avoid breathing vapor.

**Conditions for safe storage, including any incompatibilities** Keep container closed. Handle containers with care. Open slowly in order to control possible pressure release. Store in a cool, well-ventilated area.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Occupational exposure limits

##### US. ACGIH Threshold Limit Values

Components	Type	Value
BENZYL ACETATE (CAS 140-11-4)	TWA	10 ppm
PINENE BETA (CAS 127-91-3)	TWA	20 ppm



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### US. Workplace Environmental Exposure Level (WEEL) Guides

Components	Type	Value
DIPENTENE (CAS 138-86-3)	TWA	165.5 mg/m <sup>3</sup>  30 ppm

<b>Biological limit values</b>	No biological exposure limits noted for the ingredient(s).
<b>Appropriate engineering controls</b>	Use explosion-proof ventilation equipment to stay below exposure limits. 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.
<b>Individual protection measures, such as personal protective equipment</b>	
<b>Eye/face protection</b>	Wear safety glasses with side shields (or goggles). Face shield is recommended.
<b>Skin protection</b>	
<b>Hand protection</b>	Chemical resistant gloves.
<b>Other</b>	Use of an impervious apron is recommended.
<b>Respiratory protection</b>	Respiratory protection not required. If ventilation is insufficient, suitable respiratory protection must be provided.
<b>Thermal hazards</b>	Wear appropriate thermal protective clothing, when necessary.
<b>General hygiene considerations</b>	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be allowed out of the workplace.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	Refer to Spec Sheet
<b>Physical state</b>	Liquid.
<b>Form</b>	Liquid.
<b>Color</b>	Refer to Spec Sheet
<b>Odor</b>	Characteristic.
<b>Odor threshold</b>	Not available.
<b>pH</b>	Not available.
<b>Melting point/freezing point</b>	Not available.
<b>Initial boiling point and boiling range</b>	Not available.
<b>Flash point</b>	> 200.0 °F (> 93.3 °C) Closed Cup
<b>Evaporation rate</b>	Not available.
<b>Flammability (solid, gas)</b>	Not applicable.
<b>Upper/lower flammability or explosive limits</b>	
<b>Flammability limit - lower (%)</b>	Not available.

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Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	< 0.1 mm Hg at 20°C
Vapor density	Not available.
Relative density	1.04 at d 20/20
Solubility(ies)	
Solubility (water)	Insoluble
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Molecular formula	Not applicable
VOC (Weight %)	< 25 %

#### 10. STABILITY AND REACTIVITY

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Avoid temperatures exceeding the flash point. Contact with incompatible materials.
Incompatible materials	Alkaline metals.
Hazardous decomposition products	No hazardous decomposition products if stored and handled as indicated.

#### 11. TOXICOLOGICAL INFORMATION

##### Information on likely routes of exposure

Inhalation	Prolonged inhalation may be harmful.
Skin contact	May cause an allergic skin reaction.
Eye contact	Causes serious eye irritation.
Ingestion	Expected to be a low ingestion hazard.

**Symptoms related to the physical, chemical and toxicological characteristics** Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause an allergic skin reaction. Dermatitis. Rash.

##### Information on toxicological effects

**Acute toxicity** May cause an allergic skin reaction.

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Components	Species	Test Results
16- oxacyclohexadecan-1-one (CAS 106-02-5)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rabbit	> 5000 mg/kg
<i>Oral</i>		
LD50	Rat	> 5000 mg/kg
1H-3A,7- METHANOAZULEN-6-OL, OCTAHYDRO-3,6,8,8-TETRA METHYL-, (3R,3AS,6R,7R,8AS)- (CAS 77-53-2)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rabbit	> 5000 mg/kg
2-CYCLOHEXEN-1-ONE, 2-METHYL-5- (1-METHYLETHENYL)- (CAS 99-49-0)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rabbit	3800 mg/kg
<i>Oral</i>		
LD50	Rat	1640 mg/kg
3-METHYBUTYL SALICYLATE (CAS 87-20-7)		
<b>Acute</b>		
<i>Oral</i>		
LD50	Rat	4100 mg/kg
BENZYL ACETATE (CAS 140-11-4)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rabbit	> 5000 mg/kg
<i>Oral</i>		
LD50	Rat	2490 mg/kg
BENZYL BENZOATE (CAS 120-51-4)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rabbit	4000 mg/kg
<i>Oral</i>		
LD50	Rat	1700 mg/kg
BENZYL CINNAMATE (CAS 103-41-3)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rabbit	> 3000 mg/kg



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Components	Species	Test Results
<i>Oral</i> LD50	Rat	5.38 g/kg Remarks: Behavioral:Somnolence (general depressed activity). Behavioral:Coma.
COUMARIN (CAS 91-64-5)		
<b>Acute</b> <i>Oral</i> LD50	Guinea pig	202 mg/kg
	Mouse	196 mg/kg
	Rat	293 mg/kg
<i>Other</i> LD50	Mouse	220 mg/kg
DIPENTENE (CAS 138-86-3)		
<b>Acute</b> <i>Dermal</i> LD50	Rabbit	5 g/kg
<i>Oral</i> LD50	Rat	5 g/kg
EUGENOL (CAS 97-53-0)		
<b>Acute</b> <i>Dermal</i> LCL0	Rat	5000 mg/kg subcutaneous
<i>Inhalation</i> LC50	Rat	2580 mg/m <sup>3</sup> , 4 hours ARTODN 62,381,1988
<i>Oral</i> LD50	Rat	1930 mg/kg
GERANYL ACETATE (CAS 105-87-3)		
<b>Acute</b> <i>Oral</i> LD50	Rat	6330 mg/kg Remarks: Behavioral:Somnolence (general depressed activity). Behavioral:Coma.
HEXYL SALICYLATE (CAS 6259-76-3)		
<b>Acute</b> <i>Dermal</i>	Rabbit	> 5000 mg/kg

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Components	Species	Test Results
<i>Oral</i>		
	Rat	> 5000 mg/kg
HYDROGENATED METHYL ROSINATE (CAS 8050-15-5)		
<b>Acute</b>		
<i>Oral</i>		
LD50	Rat	> 2000 mg/kg
LINALOOL (CAS 78-70-6)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rabbit	2000 mg/kg
<i>Oral</i>		
LD50	Rat	2790 mg/kg
LINALYL ACETATE (CAS 115-95-7)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rabbit	> 5000 mg/kg
<i>Oral</i>		
LD50	Rat	14.55 g/kg Remarks: Behavioral:General anesthetic. Behavioral:Somnolence (general depressed activity). Behavioral:Ataxia.
PHENYL ETHYL ALCOHOL (CAS 60-12-8)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rabbit	2500 mg/kg
<i>Oral</i>		
LD50	Rat	1610 mg/kg
PHENYL ETHYL SALICYLATE (CAS 87-22-9)		
<i>Dermal</i>		
LD50	Rabbit	> 5000 mg/kg
<i>Oral</i>		
LD50	Rat	> 5000 mg/kg
PINENE BETA (CAS 127-91-3)		
<b>Acute</b>		
<i>Oral</i>		
LD50	Rat	4700 mg/kg

\* Estimates for product may be based on additional component data not shown.

**Skin corrosion/irritation**

Prolonged skin contact may cause temporary irritation.

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**Serious eye damage/eye irritation** Causes serious eye irritation.

**Respiratory or skin sensitization**

**Respiratory sensitization** Not a respiratory sensitizer.

**Skin sensitization** May cause an allergic skin reaction.

**Germ cell mutagenicity** No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

### Carcinogenicity

#### ACGIH Carcinogens

BENZYL ACETATE (CAS 140-11-4) A4 Not classifiable as a human carcinogen.

PINENE BETA (CAS 127-91-3) A4 Not classifiable as a human carcinogen.

#### IARC Monographs. Overall Evaluation of Carcinogenicity

BENZYL ACETATE (CAS 140-11-4) 3 Not classifiable as to carcinogenicity to humans.

COUMARIN (CAS 91-64-5) 3 Not classifiable as to carcinogenicity to humans.

EUGENOL (CAS 97-53-0) 3 Not classifiable as to carcinogenicity to humans.

#### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

**Reproductive toxicity** This product is not expected to cause reproductive or developmental effects.

**Specific target organ toxicity - single exposure** Not classified.

**Specific target organ toxicity - repeated exposure** Not classified.

**Aspiration hazard** Not an aspiration hazard.

**Chronic effects** Prolonged inhalation may be harmful.

**Further information** This mixture has not been subjected to full toxicological testing. According to available data on the constituents the health classification criteria are met.

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity** Very toxic to aquatic life with long lasting effects. This mixture has not been subjected to ecotoxicological testing as an entity. According to available data on the constituents the environmental classification criteria are met.

Components	Species	Test Results
16- oxacyclohexadecan-1-one (CAS 106-02-5)		
<b>Aquatic</b>		
Crustacea	EC50	Daphnia magna > 1.27 mg/l, 48 hours
Fish	LC50	Fish > 0.11 mg/l, 96 hours
BENZYL ACETATE (CAS 140-11-4)		
<b>Aquatic</b>		
Fish	LC50	Medaka, high-eyes (Oryzias latipes) 3.48 - 4.6 mg/l, 96 hours

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Components		Species	Test Results
CEDRENE ALPHA (CAS 469-61-4)			
<b>Aquatic</b>			
Crustacea	EC50	Water flea ( <i>Daphnia pulex</i> )	0.044 mg/l, 48 hours
COUMARIN (CAS 91-64-5)			
<b>Aquatic</b>			
Crustacea	LC50	Water flea ( <i>Daphnia magna</i> )	10 - 18 mg/l, 48 hours
Fish	LC50	Guppy ( <i>Poecilia reticulata</i> )	32 - 100 mg/l, 96 hours
DIPENTENE (CAS 138-86-3)			
<b>Aquatic</b>			
Fish	LC50	Carp ( <i>Leuciscus idus melanotus</i> )	34 mg/l, 48 hours
EUGENOL (CAS 97-53-0)			
Other	LD50	Bird	> 316 mg/kg Schafer, 1983
<b>Aquatic</b>			
Crustacea	EC50	<i>Daphnia magna</i>	1.13 mg/l, 48 hours
	LD50	Invertebrates (Invertebrates)	0.012 mg/kg Lee, 1997
Fish	LC50	Danio rerio	13 mg/l, 96 hours
		<i>Oncorhynchus mykiss</i>	60.8 mg/l, 96 hours
GERANYL ACETATE (CAS 105-87-3)			
<b>Aquatic</b>			
Algae	EC50	Green algae ( <i>Chlamydomonas variabilis</i> )	3.72 mg/l, 72 hours OECD Guideline 201 static. The statement of the toxic effect relates to the analytically determined concentration.
Crustacea	EC50	<i>Daphnia magna</i>	14.1 mg/l, 48 hours Directive 84/449/EEC, C.2 static. The statement of the toxic effect relates to the analytically determined concentration.
Fish	LC50	Fish	68.12 mg/l, 96 hours <i>Cyprinus carpio</i> . OECD Guideline 203 static The product has not been tested. The statement has been derived from products of a similar structure or composition.
Other	EC10	Bacterium	> 10000 mg/l, 0.5 hours DIN 38412 Part 27 (draft) aquatic. The statement of the toxic effect relates to the analytically determined concentration. The product has low solubility in the test medium. An aqueous solution prepared with solubilizers has been tested.

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HEXYL SALICYLATE (CAS 6259-76-3)				
<b>Aquatic</b>				
<i>Acute</i>				
Algae	EC50		Green algae (Desmodesmus subspicatus)	0.61 mg/l, 72 hours
Crustacea	EC50		Daphnia magna	1.5 mg/l, 24 hours
HYDROGENATED METHYL ROSINATE (CAS 8050-15-5)				
<i>Acute</i>				
Other	EL50		Selenastrum capricornutum (new name Pseudokirchnerella subca	> 1000 mg/l, 72 hours OECD 201
<b>Aquatic</b>				
<i>Acute</i>				
Crustacea	EL50		Daphnia magna	> 100 mg/l, 48 hours OECD 202
Fish	LL50		Pimephales promelas	> 1000 mg/l, 96 hours OECD 203
LINALOOL (CAS 78-70-6)				
Other	EC10		Activated sludge of a predominantly domestic sewage	> 100 mg/l, 3 hours
<b>Aquatic</b>				
Algae	EC50		Green algae (Chlamydomonas variabilis)	88.3 mg/l, 96 hours DIN 38412 Part 9 static. The details of the toxic effect related to the nominal concentration.
Crustacea	EC50		Daphnia magna	20 mg/l, 48 hours DIN 38412 Part 11 static. The details of the toxic effect related to the nominal concentration.
Fish	LC50		Ide, silver or golden orfe (Leuciscus idus)	22 - 46 mg/l, 96 hours DIN 38412 Part 15 static. The details of the toxic effect related to the nominal concentration.
	LC50-R		Fish	27.8 mg/l, 96 hours
PHENYL ETHYL SALICYLATE (CAS 87-22-9)				
<b>Aquatic</b>				
Crustacea	EC50		Invertebrates (Invertebrates)	1.8 mg/l, 48 hours

\* Estimates for product may be based on additional component data not shown.

**Persistence and degradability** No data is available on the degradability of this product.

**Bioaccumulative potential**

**Partition coefficient n-octanol / water (log Kow)**

BENZYL ACETATE	1.96
BENZYL BENZOATE	3.97
COUMARIN	1.39
DIPENTENE	4.232

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**Partition coefficient n-octanol / water (log Kow)**

EUGENOL	2.27
LINALOOL	2.97, (OECD Guideline 107)
PHENYL ETHYL ALCOHOL	1.36

**Bioconcentration factor (BCF)**

COUMARIN	< 10
	Species: Leuciscus idus (Golden orfe)
	Test Duration: 3 d

**Mobility in soil** No data available.

**Other adverse effects** No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

### 13. DISPOSAL CONSIDERATIONS

**Disposal instructions** Do not discharge into drains, water courses or onto the ground. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

**Local disposal regulations** Dispose in accordance with all applicable regulations.

**Hazardous waste code** Not established.

**Waste from residues / unused products** Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

**Contaminated packaging** Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

### 14. TRANSPORT INFORMATION

**ADN**

UN number	3082
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (METHYL CEDRYL KETONE, CEDRENE ALPHA)
Transport hazard class(es)	9
Subsidiary class(es)	-
Packing group	III
Environmental hazards	Yes
Labels required	9

**ADR**

UN number	3082
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (METHYL CEDRYL KETONE, CEDRENE ALPHA)
Transport hazard class(es)	9
Subsidiary class(es)	-
Packing group	III
Environmental hazards	Yes
Labels required	9

**RID**

UN number	3082
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<b>UN proper shipping name</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (METHYL CEDRYL KETONE,CEDRENE ALPHA)
<b>Transport hazard class(es)</b>	9
<b>Subsidiary class(es)</b>	-
<b>Packing group</b>	III
<b>Environmental hazards</b>	Yes
<b>Labels required</b>	9

### DOT

#### BULK

<b>UN number</b>	3082
<b>Proper shipping name</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (METHYL CEDRYL KETONE,CEDRENE ALPHA)
<b>Hazard class</b>	9
<b>Packing group</b>	III
<b>Environmental hazards</b>	
<b>Marine pollutant</b>	Yes
<b>Packaging exceptions</b>	155
<b>Packaging bulk</b>	241
<b>Labels required</b>	9

### DOT

#### NON-BULK

Not regulated as dangerous goods.

### IATA

Not regulated as dangerous goods.

### IMDG

<b>UN number</b>	3082
<b>UN proper shipping name</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (METHYL CEDRYL KETONE,CEDRENE ALPHA)
<b>Transport hazard class(es)</b>	9
<b>Subsidiary class(es)</b>	-
<b>Packing group</b>	III
<b>Environmental hazards</b>	
<b>Marine pollutant</b>	Yes
<b>Labels required</b>	9
<b>Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b>	Not applicable.

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ADN; ADR; DOT BULK; IMDG; RID



Marine pollutant



### 15. REGULATORY INFORMATION

**US federal regulations** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

**CERCLA Hazardous Substance List (40 CFR 302.4)**

Not listed.

**US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)**

Not listed.

**SARA 304 Emergency release notification**

Not regulated.

**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)**

Not listed.

**TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**

Not regulated.

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

**Hazard categories**  
Immediate Hazard - Yes  
Delayed Hazard - No  
Fire Hazard - No  
Pressure Hazard - No  
Reactivity Hazard - No

**SARA 302 Extremely hazardous substance**

Not listed.

**SARA 311/312 Hazardous chemical** No



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### SARA 313 (TRI reporting)

Not regulated.

### Other federal regulations

#### Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

#### Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

#### Safe Drinking Water Act (SDWA)

Not regulated.

### US state regulations

#### US - Minnesota Haz Subs: Hazardous substance

BENZYL ACETATE (CAS 140-11-4)

Hazardous substance.

#### US. Massachusetts RTK - Substance List

Not regulated.

#### US. New Jersey Worker and Community Right-to-Know Act

BENZYL ACETATE (CAS 140-11-4)

DIPENTENE (CAS 138-86-3)

#### US. Pennsylvania Worker and Community Right-to-Know Law

Not listed.

#### US. Rhode Island RTK

Not regulated.

#### US. California Proposition 65

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

Not listed.

### International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes



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Country(s) or region	Inventory name	On inventory (yes/no)*
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

### 16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

Issue date	11-18-2015
Revision date	10-29-2015
Version #	01
HMIS® ratings	Health: 2 Flammability: 1 Physical hazard: 0

#### Disclaimer

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