



Honey Orange

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 04/30/2019

Version: 1.0

SECTION 1: Identification

1.1. Identification

Product form : Mixture
Product name : Honey Orange

1.2. Recommended use and restrictions on use

Use of the substance/mixture : Perfume ingredient. Not for use in food or feed.

1.3. Supplier

AAA Candle Supplies, Inc.
10460 Brockwood Rd
Dallas, Texas 75238
T (214) 342-9898
www.AAACandleSupply.com

1.4. Emergency telephone number

No additional information available

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS US classification

Flammable liquids Category 3	H226	Flammable liquid and vapor.
Skin corrosion/irritation Category 2	H315	Causes skin irritation
Serious eye damage/eye irritation Category 2	H319	Causes serious eye irritation
Skin sensitization, Category 1	H317	May cause an allergic skin reaction
Germ cell mutagenicity Category 1B	H340	May cause genetic defects
Aspiration hazard Category 1	H304	May be fatal if swallowed and enters airways

Full text of H statements : see section 16

2.2. GHS Label elements, including precautionary statements

GHS US labeling

Hazard pictograms (GHS US) :



Signal word (GHS US) : Danger

Hazard statements (GHS US) :
H226 - Flammable liquid and vapor.
H304 - May be fatal if swallowed and enters airways
H315 - Causes skin irritation
H317 - May cause an allergic skin reaction
H319 - Causes serious eye irritation
H340 - May cause genetic defects

Precautionary statements (GHS US) :
P201 - Obtain special instructions before use.
P202 - Do not handle until all safety precautions have been read and understood.
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233 - Keep container tightly closed.
P240 - Ground and bond container and receiving equipment
P241 - Use explosion-proof equipment
P242 - Use only non-sparking tools.
P243 - Take precautionary measures against static discharge.
P261 - Avoid breathing mist, vapors and spray.
P264 - Wash hands, forearms and face thoroughly after handling.
P272 - Contaminated work clothing must not be allowed out of the workplace
P280 - Wear protective gloves, protective clothing, eye and face protection
P301+P310 - If swallowed: Immediately call a poison center or doctor
P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower
P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P308+P313 - If exposed or concerned: Get medical attention.
P331 - Do NOT induce vomiting.
P333+P313 - If skin irritation or rash occurs: Get medical attention.
P337+P313 - If eye irritation persists: Get medical attention.
P362+P364 - Take off contaminated clothing and wash it before reuse.

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P363 - Wash contaminated clothing before reuse.
P370+P378 - In case of fire: Use media other than water to extinguish.
P403+P235 - Store in a well-ventilated place. Keep cool.
P405 - Store locked up.
P501 - Dispose of contents and container in accordance with applicable regulations.

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%*	GHS US classification
benzyl benzoate	(CAS-No.) 120-51-4	5 - 20	Acute Tox. 4 (Oral), H302
Citrus paradisi peel oil	(CAS-No.) 8016-20-4	5 - 20	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Skin Sens. 1, H317 STOT SE 3, H335 Asp. Tox. 1, H304
linalol	(CAS-No.) 78-70-6	< 5	Flam. Liq. 4, H227 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Skin Sens. 1, H317 STOT SE 3, H336
octanal	(CAS-No.) 124-13-0	< 5	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2A, H319
decanal	(CAS-No.) 112-31-2	< 5	Flam. Liq. 4, H227 Skin Irrit. 2, H315 Eye Irrit. 2A, H319
alpha-pentylcinnamaldehyde	(CAS-No.) 122-40-7	< 5	Skin Irrit. 2, H315 Skin Sens. 1, H317
2,6-dimethyl-7-octen-2-ol	(CAS-No.) 18479-58-8	< 5	Flam. Liq. 4, H227 Skin Irrit. 2, H315 Eye Irrit. 2B, H320
(+/-)-beta-citronellol	(CAS-No.) 106-22-9	< 5	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Skin Sens. 1, H317 Asp. Tox. 1, H304
citral, isomer mixture	(CAS-No.) 5392-40-5	< 5	Flam. Liq. 4, H227 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Skin Sens. 1, H317
Pelargonium graveolens flower oil	(CAS-No.) 8000-46-2	< 5	Flam. Liq. 4, H227 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B, H317 STOT SE 3, H336 Asp. Tox. 1, H304
ethyl methylphenylglycidate	(CAS-No.) 77-83-8	< 5	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335
Geranyl nitrile	(CAS-No.) 5146-66-7	< 5	Muta. 1B, H340
eugenol	(CAS-No.) 97-53-0	< 5	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Skin Sens. 1, H317
geraniol	(CAS-No.) 106-24-1	< 5	Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Skin Sens. 1A, H317
trans-anethol	(CAS-No.) 4180-23-8	< 5	Skin Sens. 1, H317
cinnamaldehyde	(CAS-No.) 104-55-2	< 5	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Skin Sens. 1, H317

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*Exact concentrations have been withheld as a trade secret
Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures

4.1. Description of first aid measures

- | | |
|---------------------------------------|---|
| First-aid measures general | : Call a physician immediately. |
| First-aid measures after inhalation | : Remove person to fresh air and keep comfortable for breathing. |
| First-aid measures after skin contact | : Rinse skin with water or shower. Take off immediately all contaminated clothing. If skin irritation or rash occurs: Get medical attention. |
| First-aid measures after eye contact | : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention. |
| First-aid measures after ingestion | : Do not induce vomiting. Call a physician immediately. |

4.2. Most important symptoms and effects (acute and delayed)

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|-------------------------------------|--|
| Symptoms/effects after skin contact | : Irritation. May cause an allergic skin reaction. |
| Symptoms/effects after eye contact | : Eye irritation. |
| Symptoms/effects after ingestion | : Risk of lung edema. |

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

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|------------------------------|--|
| Suitable extinguishing media | : Water spray. Dry powder. Foam. Carbon dioxide. |
|------------------------------|--|

5.2. Specific hazards arising from the chemical

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|-------------|-------------------------------|
| Fire hazard | : Flammable liquid and vapor. |
| Reactivity | : Flammable liquid and vapor. |

5.3. Special protective equipment and precautions for fire-fighters

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|--------------------------------|--|
| Protection during firefighting | : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. |
|--------------------------------|--|

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

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| Emergency procedures | : No open flames, no sparks, and no smoking. Only qualified personnel equipped with suitable protective equipment may intervene. Avoid breathing mist, vapors and spray. |
|----------------------|--|

6.1.2. For emergency responders

- | | |
|----------------------|---|
| Protective equipment | : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection". |
|----------------------|---|

6.2. Environmental precautions

Avoid release to the environment. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

- | | |
|-------------------------|---|
| Methods for cleaning up | : Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters. |
| Other information | : Dispose of materials or solid residues at an authorized site. |

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- | | |
|-------------------------------|---|
| Precautions for safe handling | : Ensure good ventilation of the work station. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground and bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapors may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Take all necessary technical measures to avoid or minimize the release of the product on the workplace. Limit quantities of product at the minimum necessary for handling and limit the number of exposed workers. Provide local exhaust or general room ventilation. Floors, walls and other surfaces in the hazard area must be cleaned regularly. Avoid contact with skin and eyes. Avoid breathing mist, vapors and spray. |
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Hygiene measures : Separate working clothes from town clothes. Launder separately. Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Ground and bond container and receiving equipment.

Storage conditions : Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

decanal (112-31-2)		
Not applicable		
ethyl methylphenylglycidate (77-83-8)		
Not applicable		
octanal (124-13-0)		
Not applicable		
alpha-pentylcinnamaldehyde (122-40-7)		
Not applicable		
trans-anethol (4180-23-8)		
Not applicable		
benzyl benzoate (120-51-4)		
Not applicable		
cinnamaldehyde (104-55-2)		
Not applicable		
citral, isomer mixture (5392-40-5)		
ACGIH	ACGIH TWA (ppm)	5 ppm (Citral; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value; Inhalable fraction and vapor)
geraniol (106-24-1)		
Not applicable		
(+/-)-beta-citronellol (106-22-9)		
Not applicable		
Pelargonium graveolens flower oil (8000-46-2)		
Not applicable		
2,6-dimethyl-7-octen-2-ol (18479-58-8)		
Not applicable		
eugenol (97-53-0)		
Not applicable		
linalol (78-70-6)		
Not applicable		
Citrus paradisi peel oil (8016-20-4)		
Not applicable		
Geranyl nitrile (5146-66-7)		
Not applicable		

8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.

Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Hand protection : Protective gloves

Eye protection : Safety glasses

Skin and body protection : Wear suitable protective clothing

Respiratory protection : Wear respiratory protection.

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Color	: Colorless to light yellow
Odor	: Fruity – Honey Orange
Odor threshold	: No data available
pH	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: > 115 °F
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Not applicable.
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: No data available
Solubility	: Insoluble in water. Soluble in oil. Soluble in organic solvents.
Log Pow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: < 100 mm ² /s
Viscosity, dynamic	: < 100 cP
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Flammable liquid and vapor.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

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

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

decanal (112-31-2)	
LD50 oral rat	3096 mg/kg (Rat)
LD50 dermal rabbit	4183 mg/kg (Rabbit)
ATE US (oral)	3096 mg/kg body weight
ATE US (dermal)	4183 mg/kg body weight
ethyl methylphenylglycidate (77-83-8)	
LD50 oral rat	5470 mg/kg (Rat)

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ethyl methylphenylglycidate (77-83-8)	
ATE US (oral)	5470 mg/kg body weight
octanal (124-13-0)	
LD50 oral rat	> 2000 mg/kg (Rat)
LD50 dermal rabbit	> 2000 mg/kg (Rabbit)
alpha-pentylcinnamaldehyde (122-40-7)	
LD50 oral rat	3730 mg/kg (Rat)
LD50 dermal rabbit	> 2000 mg/kg (Rabbit)
ATE US (oral)	3730 mg/kg body weight
trans-anethol (4180-23-8)	
LD50 oral rat	2090 mg/kg (Rat)
LD50 dermal rabbit	> 5000 mg/kg (Rabbit)
ATE US (oral)	2090 mg/kg body weight
benzyl benzoate (120-51-4)	
LD50 oral rat	1870 mg/kg (Rat; OECD 401: Acute Oral Toxicity; Experimental value; >2000 mg/kg bodyweight; Rat)
LD50 dermal rat	4400 mg/kg (Rat)
LD50 dermal rabbit	4000 mg/kg (Rabbit; Experimental value; Modification of Draize 1959 method; >2; Rabbit)
ATE US (oral)	1870 mg/kg body weight
ATE US (dermal)	4000 mg/kg body weight
cinnamaldehyde (104-55-2)	
LD50 oral rat	2220 mg/kg (Rat)
LD50 dermal rabbit	> 2000 mg/kg (Rabbit)
ATE US (oral)	2220 mg/kg body weight
citral, isomer mixture (5392-40-5)	
LD50 oral rat	4960 mg/kg (Rat)
LD50 dermal rat	> 2000 mg/kg (Rat)
LD50 dermal rabbit	2250 mg/kg (Rabbit)
ATE US (oral)	4960 mg/kg body weight
ATE US (dermal)	2250 mg/kg body weight
geraniol (106-24-1)	
LD50 oral rat	3600 mg/kg body weight (Rat; Experimental value)
LD50 dermal rabbit	> 5000 mg/kg body weight (Rabbit; Experimental value)
ATE US (oral)	3600 mg/kg body weight
(+/-)-beta-citronellol (106-22-9)	
LD50 oral rat	3450 mg/kg (Rat; Inconclusive, insufficient data)
LD50 dermal rabbit	2650 mg/kg (Rabbit; Inconclusive, insufficient data)
ATE US (oral)	3450 mg/kg body weight
ATE US (dermal)	2650 mg/kg body weight
2,6-dimethyl-7-octen-2-ol (18479-58-8)	
LD50 oral rat	3600 mg/kg (Rat)
LD50 dermal rabbit	> 5000 mg/kg (Rabbit)
ATE US (oral)	3600 mg/kg body weight
eugenol (97-53-0)	
LD50 oral rat	2680 mg/kg (Rat)
ATE US (oral)	2680 mg/kg body weight
linalol (78-70-6)	
LD50 oral rat	2790 mg/kg (Rat)
LD50 dermal rat	5610 mg/kg (Rat)
LD50 dermal rabbit	> 5000 mg/kg (Rabbit)
ATE US (oral)	2790 mg/kg body weight
ATE US (dermal)	5610 mg/kg body weight

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Geranyl nitrile (5146-66-7)	
LD50 oral rat	2600 mg/kg body weight (Equivalent or similar to OECD 401, Rat, Experimental value, Oral)
LD50 dermal rabbit	> 5000 mg/kg (Equivalent or similar to OECD 402, Rabbit, Experimental value, Dermal)
LC50 inhalation rat (mg/l)	> 5.2 mg/l air (4 h, Rat, Male/female, Experimental value, Inhalation, 4 day(s))
ATE US (oral)	2600 mg/kg body weight

Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitization	: May cause an allergic skin reaction.
Germ cell mutagenicity	: May cause genetic defects.
Carcinogenicity	: Not classified

eugenol (97-53-0)	
IARC group	3 - Not classifiable

Reproductive toxicity	: Not classified
Specific target organ toxicity – single exposure	: Not classified

ethyl methylphenylglycidate (77-83-8)	
Specific target organ toxicity – single exposure	May cause respiratory irritation.

Pelargonium graveolens flower oil (8000-46-2)	
Specific target organ toxicity – single exposure	May cause drowsiness or dizziness.

linalol (78-70-6)	
Specific target organ toxicity – single exposure	May cause drowsiness or dizziness.

Citrus paradisi peel oil (8016-20-4)	
Specific target organ toxicity – single exposure	May cause respiratory irritation.

Specific target organ toxicity – repeated exposure	: Not classified
Aspiration hazard	: May be fatal if swallowed and enters airways.
Viscosity, kinematic	: < 100 mm²/s
Symptoms/effects after skin contact	: Irritation. May cause an allergic skin reaction.
Symptoms/effects after eye contact	: Eye irritation.
Symptoms/effects after ingestion	: Risk of lung edema.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general	: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.
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ethyl methylphenylglycidate (77-83-8)	
LC50 fish 1	1 - 10 mg/l For this family of materials: moderately toxic to aquatic organisms on an acute basis in the most sensitive species tested.
LC50 fish 2	3.8 - 6.2 ml/l For this family of materials: Pimephales promelas (fathead minnow), 96 Hour, OECD Test Guideline

alpha-pentylcinnamaldehyde (122-40-7)	
LC50 fish 1	3 mg/l (LC50; OECD 203: Fish, Acute Toxicity Test; 96 h; Brachydanio rerio)
EC50 Daphnia 1	1.1 mg/l (EC50; OECD 202: Daphnia sp. Acute Immobilization Test; 96 h; Daphnia magna)

citral, isomer mixture (5392-40-5)	
LC50 fish 1	4.6 - 10 mg/l (LC50; 96 h)
EC50 Daphnia 1	7 mg/l (EC50; 48 h)
Threshold limit algae 1	16 mg/l (EC50; 72 h)

geraniol (106-24-1)	
LC50 fish 1	> 9.8 mg/l (LC50; 96 h)

(+/-)-beta-citronellol (106-22-9)	
LC50 fish 1	> mg/l >10 <22, LC50; 96 h
EC50 Daphnia 1	17 mg/l (EC50; 48 h)
Threshold limit algae 1	2.4 mg/l (EC50; 72 h)

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eugenol (97-53-0)	
LC50 fish 1	24 mg/l (LC50; 96 h)
linalol (78-70-6)	
EC50 Daphnia 1	59 mg/l (EC50; OECD 202: Daphnia sp. Acute Immobilization Test; 48 h; Daphnia magna)
EC50 other aquatic organisms 1	>= 100 mg/l (3 h; Activated sludge)
LC50 fish 2	27.8 mg/l (LC50; OECD 203: Fish, Acute Toxicity Test; 96 h; Salmo gairdneri)
Threshold limit algae 1	88.3 mg/l (EC50; 96 h)
Geranyl nitrile (5146-66-7)	
LC50 fish 1	6.619 mg/l (96 h, Danio rerio, Static system, Fresh water, QSAR)
ErC50 (algae)	3.174 mg/l (72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, QSAR)
12.2. Persistence and degradability	
decanal (112-31-2)	
Persistence and degradability	Not readily biodegradable in water.
BOD (% of ThOD)	0.022 (5 days; Literature study)
ethyl methylphenylglycidate (77-83-8)	
Persistence and degradability	Biodegradability in water: no data available.
octanal (124-13-0)	
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil.
alpha-pentylcinnamaldehyde (122-40-7)	
Persistence and degradability	Readily biodegradable in water. Biodegradability in soil: no data available. Adsorbs into the soil.
trans-anethol (4180-23-8)	
Persistence and degradability	Ozonation in the air. Photodegradation in the air.
benzyl benzoate (120-51-4)	
Persistence and degradability	Readily biodegradable in water. Low potential for mobility in soil.
cinnamaldehyde (104-55-2)	
Persistence and degradability	Readily biodegradable in water.
citral, isomer mixture (5392-40-5)	
Persistence and degradability	Readily biodegradable in water. Forming sediments in water. Ozonation in the air. Photodegradation in the air.
Biochemical oxygen demand (BOD)	0.556 g O ₂ /g substance
Chemical oxygen demand (COD)	1.99 g O ₂ /g substance
ThOD	2.84 g O ₂ /g substance
geraniol (106-24-1)	
Persistence and degradability	Readily biodegradable in water.
ThOD	2.9 g O ₂ /g substance
(+/-)-beta-citronellol (106-22-9)	
Persistence and degradability	Readily biodegradable in water.
Chemical oxygen demand (COD)	2.05 g O ₂ /g substance
ThOD	2.961 g O ₂ /g substance
2,6-dimethyl-7-octen-2-ol (18479-58-8)	
Persistence and degradability	Biodegradability in water: no data available.
eugenol (97-53-0)	
Persistence and degradability	Biodegradability in water: no data available.
linalol (78-70-6)	
Persistence and degradability	Readily biodegradable in water.
Biochemical oxygen demand (BOD)	1.531 g O ₂ /g substance
Chemical oxygen demand (COD)	2.808 g O ₂ /g substance

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Geranyl nitrile (5146-66-7)	
Persistence and degradability	Readily biodegradable in water.
12.3. Bioaccumulative potential	
decanal (112-31-2)	
BCF other aquatic organisms 1	420 (BCF)
Log Pow	3.76 (Estimated value)
Bioaccumulative potential	Bioaccumable.
ethyl methylphenylglycidate (77-83-8)	
Bioaccumulative potential	No bioaccumulation data available.
octanal (124-13-0)	
BCF other aquatic organisms 1	17 (BCF)
Bioaccumulative potential	Not bioaccumulative.
alpha-pentylcinnamaldehyde (122-40-7)	
Log Pow	4.3 - 4.7
benzyl benzoate (120-51-4)	
BCF fish 1	2286 (BCF; BCFBAF v3.00; Pisces)
Log Pow	3.88 - 4
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
cinnamaldehyde (104-55-2)	
Log Pow	1.9 - 2.22
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
citral, isomer mixture (5392-40-5)	
BCF other aquatic organisms 1	250 (BCF)
Log Pow	2.76 - 3.45 (Estimated value)
Bioaccumulative potential	Bioaccumable.
geraniol (106-24-1)	
Bioaccumulative potential	No bioaccumulation data available.
(+/-)-beta-citronellol (106-22-9)	
Log Pow	3.41 - 3.91
2,6-dimethyl-7-octen-2-ol (18479-58-8)	
Log Pow	3.47 (Estimated value)
eugenol (97-53-0)	
Log Pow	2.27
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
linalol (78-70-6)	
Log Pow	2.84 - 3.145
Bioaccumulative potential	Bioaccumable.
Geranyl nitrile (5146-66-7)	
BCF fish 1	89.99 (BCFBAF v3.01, Pisces, Calculated value)
Log Pow	3.47 (Calculated, KOWWIN)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
12.4. Mobility in soil	
decanal (112-31-2)	
Surface tension	0.028 N/m
benzyl benzoate (120-51-4)	
Surface tension	0.027 N/m (210 °C)
Log Koc	log Koc, OECD 121: Estimation of the Adsorption Coefficient (Koc) on Soil and on Sewage Sludge using High Performance Liquid Chromatography (HPLC); 3,8; Experimental value
Geranyl nitrile (5146-66-7)	
Surface tension	29.5 mN/m
Ecology - soil	Low potential for adsorption in soil.

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12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods : Dispose of contents and container in accordance with licensed collector's sorting instructions.

Additional information : Flammable vapors may accumulate in the container.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Transport document description : ID8000 Consumer commodity, 9

UN-No.(DOT) : ID8000

Proper Shipping Name (DOT) : Consumer commodity

Class (DOT) : 9 - Class 9 - Miscellaneous hazardous material 49 CFR 173.140

Hazard labels (DOT) : 9 - Class 9 (Miscellaneous dangerous materials)



DOT Packaging Non Bulk (49 CFR 173.xxx) : 167

DOT Packaging Bulk (49 CFR 173.xxx) : None

DOT Packaging Exceptions (49 CFR 173.xxx) : 167

DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) : 30 kg gross

DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) : 30 kg gross

Emergency Response Guide (ERG) Number : 171

Other information : No supplementary information available.

Transport by sea

Not regulated

Air transport

Transport document description (IATA) : UN 8000 Consumer commodity, 9

UN-No. (IATA) : 8000

Proper Shipping Name (IATA) : Consumer commodity

Class (IATA) : 9 - Miscellaneous Dangerous Goods

SECTION 15: Regulatory information

15.1. US Federal regulations

decanal (112-31-2)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

ethyl methylphenylglycidate (77-83-8)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

octanal (124-13-0)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

alpha-pentylcinnamaldehyde (122-40-7)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

trans-anethol (4180-23-8)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

benzyl benzoate (120-51-4)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

cinnamaldehyde (104-55-2)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

citral, isomer mixture (5392-40-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Honey Orange

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

geraniol (106-24-1)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

(+/-)-beta-citronellol (106-22-9)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

pelargonium graveolens flower oil (8000-46-2)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

2,6-dimethyl-7-octen-2-ol (18479-58-8)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

eugenol (97-53-0)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

linalol (78-70-6)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2. International regulations

CANADA

No additional information available

EU-Regulations

No additional information available

National regulations

No additional information available

15.3. US State regulations

No additional information available

SECTION 16: Other information

Full text of H-phrases:

H226	Flammable liquid and vapor.
H227	Combustible liquid
H302	Harmful if swallowed
H304	May be fatal if swallowed and enters airways
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H319	Causes serious eye irritation
H320	Causes eye irritation
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness
H340	May cause genetic defects

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.