

SECTION 1: Identification

1.1. Identification

Product form : Mixture
 Product name : Monkey Farts

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
Respiratory sensitization, Category 1	H334	May cause an allergy or asthma symptoms or breathing difficulties if inhaled
Skin sensitization, Category 1	H317	May cause an allergic skin reaction
Reproductive toxicity Category 2	H361	Suspected of damaging fertility or the unborn child
Specific target organ toxicity (single exposure) Category 2	H371	May cause damage to organs
Specific target organ toxicity (single exposure) Category 3	H335	May cause respiratory irritation
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
 H334 - May cause an allergy or asthma symptoms or breathing difficulties if inhaled
 H335 - May cause respiratory irritation
 H361 - Suspected of damaging fertility or the unborn child
 H371 - May cause damage to organs

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.
 P260 - Do not breathe mist, vapors and spray.
 P264 - Wash hands, forearms and face thoroughly after handling.
 P270 - Do not eat, drink or smoke when using this product.
 P271 - Use only outdoors or in a well-ventilated area.
 P272 - Contaminated work clothing must not be allowed out of the workplace
 P280 - Wear protective gloves, protective clothing, eye and face protection

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P284 - In case of inadequate ventilation, wear respiratory 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
 P304+P341 - If inhaled: If breathing is difficult, remove person to fresh air and keep comfortable for breathing
 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 advice/attention.
 P312 - Call a poison center or doctor if you feel unwell
 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.
 P342+P311 - If experiencing respiratory symptoms: Call a poison center or doctor
 P362+P364 - Take off contaminated clothing and wash it before reuse.
 P363 - Wash contaminated clothing before reuse.
 P370+P378 - In case of fire: Use media other than water to extinguish.
 P403 - Store in a well-ventilated place.
 P235 - 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
n-pentyl butyrate	(CAS-No.) 540-18-1	5 - 20	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335
n-amyl acetate	(CAS-No.) 628-63-7	5 - 20	Flam. Liq. 3, H226 Eye Irrit. 2A, H319 STOT SE 3, H336 STOT SE 3, H335
Orange terpenes	(CAS-No.) 8028-48-6	5 - 20	Flam. Liq. 3, H226 Skin Irrit. 2, H315 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
Citrus paradisi peel oil	(CAS-No.) 8016-20-4	< 5	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Skin Sens. 1, H317 STOT SE 3, H335 Asp. Tox. 1, H304
benzyl acetate	(CAS-No.) 140-11-4	< 5	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335
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
benzyl alcohol	(CAS-No.) 100-51-6	< 5	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2B, H320
benzyl salicylate	(CAS-No.) 118-58-1	< 5	Eye Irrit. 2A, H319 Skin Sens. 1, H317 STOT SE 2, H371

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Name	Product identifier	%*	GHS US classification
alpha-terpineol	(CAS-No.) 98-55-5	< 5	Skin Irrit. 2, H315 Eye Irrit. 2A, H319
ethyl butyrate	(CAS-No.) 105-54-4	< 5	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335
2-(4-tert-butylbenzyl)propionaldehyde	(CAS-No.) 80-54-6	< 5	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Skin Sens. 1B, H317 Repr. 2, H361
coumarin	(CAS-No.) 91-64-5	< 5	Acute Tox. 4 (Oral), H302 Skin Sens. 1, H317 STOT RE 2, H373
alpha-hexylcinnamaldehyde	(CAS-No.) 101-86-0	< 5	Skin Irrit. 2, H315 Eye Irrit. 2B, H320 Skin Sens. 1, H317
Cassis Base 345B		< 5	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Resp. Sens. 1, H334 Repr. 2, H361 Asp. Tox. 1, H304
(+/-)-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
isoeugenol	(CAS-No.) 97-54-1	< 5	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Skin Sens. 1, H317
Vertenex	(CAS-No.) 32210-23-4	< 5	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Skin Sens. 1, H317

*Exact concentration 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. Call a poison center or doctor if you feel unwell.
- 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)

- Symptoms/effects after inhalation : May cause respiratory irritation. May cause an allergy or asthma symptoms or breathing difficulties if inhaled.
- 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

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

5.2. Specific hazards arising from the chemical

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

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5.3. Special protective equipment and precautions for fire-fighters

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

Emergency procedures : Ventilate spillage area. No open flames, no sparks, and no smoking. Do not breathe mist, vapors and spray. Avoid contact with skin and eyes.

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.

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 : 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. Do not breathe mist, vapors and spray. Use only outdoors or in a well-ventilated area. Avoid contact with skin and eyes.

Hygiene measures : 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

n-amyl acetate (628-63-7)		
ACGIH	Local name	Pentyl acetate, all isomers
ACGIH	ACGIH TWA (ppm)	50 ppm
ACGIH	ACGIH STEL (ppm)	50 ppm
OSHA	OSHA PEL (TWA) (mg/m ³)	525 mg/m ³
OSHA	OSHA PEL (TWA) (ppm)	100 ppm
n-pentyl butyrate (540-18-1)		
Not applicable		
benzyl acetate (140-11-4)		
ACGIH	Local name	Benzyl acetate
ACGIH	ACGIH TWA (ppm)	10 ppm
ACGIH	Remark (ACGIH)	URT irr
benzyl alcohol (100-51-6)		
Not applicable		
benzyl salicylate (118-58-1)		
Not applicable		

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Cassis Base 345B		
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)
(+/-)-beta-citronellol (106-22-9)		
Not applicable		
coumarin (91-64-5)		
Not applicable		
2,6-dimethyl-7-octen-2-ol (18479-58-8)		
Not applicable		
ethyl butyrate (105-54-4)		
Not applicable		
Citrus paradisi peel oil (8016-20-4)		
Not applicable		
alpha-hexylcinnamaldehyde (101-86-0)		
Not applicable		
isoeugenol (97-54-1)		
Not applicable		
2-(4-tert-butylbenzyl)propionaldehyde (80-54-6)		
Not applicable		
linalol (78-70-6)		
Not applicable		
Orange terpenes (8028-48-6)		
Not applicable		
alpha-terpineol (98-55-5)		
Not applicable		
Vertenex (32210-23-4)		
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.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid
Color : Light yellow
Odor : Fruity
Odor threshold : No data available
pH : No data available
Melting point : Not applicable
Freezing point : No data available
Boiling point : No data available
Flash point : > 77 °F
Relative evaporation rate (butyl acetate=1) : No data available
Flammability (solid, gas) : Not applicable.

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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

n-amyl acetate (628-63-7)	
LD50 oral rat	6500 mg/kg (Rat)
LD50 dermal rabbit	> 5000 mg/kg (Rabbit)
ATE US (oral)	6500 mg/kg body weight
n-pentyl butyrate (540-18-1)	
LD50 oral rat	12210 mg/kg (Rat)
ATE US (oral)	12210 mg/kg body weight
benzyl acetate (140-11-4)	
LD50 oral rat	2490 mg/kg (Rat)
LD50 dermal rabbit	> 5000 mg/kg (Rabbit)
ATE US (oral)	2490 mg/kg body weight
benzyl alcohol (100-51-6)	
LD50 oral rat	1620 mg/kg bw/day (Rat; Experimental value)
LD50 dermal rabbit	> 2000 mg/kg (Rabbit; Inconclusive, insufficient data)
ATE US (oral)	500 mg/kg body weight
ATE US (dermal)	1100 mg/kg body weight
ATE US (gases)	4500 ppmV/4h
ATE US (vapors)	11 mg/l/4h
ATE US (dust, mist)	1.5 mg/l/4h

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benzyl salicylate (118-58-1)	
LD50 oral rat	2227 mg/kg (Rat)
LD50 dermal rabbit	14150 mg/kg (Rabbit)
ATE US (oral)	2227 mg/kg body weight
ATE US (dermal)	14150 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
(+/-)-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
coumarin (91-64-5)	
LD50 oral rat	300 - 900 mg/kg (Rat)
ATE US (oral)	300 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
ethyl butyrate (105-54-4)	
LD50 oral rat	13000 mg/kg (Rat)
LD50 dermal rabbit	> 2000 mg/kg (Rabbit)
ATE US (oral)	13000 mg/kg body weight
alpha-hexylcinnamaldehyde (101-86-0)	
LD50 oral rat	3100 mg/kg (Rat)
LD50 dermal rabbit	> 3000 mg/kg (Rabbit)
ATE US (oral)	3100 mg/kg body weight
isoeugenol (97-54-1)	
LD50 oral rat	1560 mg/kg (Rat)
ATE US (oral)	1560 mg/kg body weight
2-(4-tert-butylbenzyl)propionaldehyde (80-54-6)	
LD50 oral rat	1390 mg/kg (Rat)
LD50 dermal rat	> 2000 mg/kg (Rat)
LD50 dermal rabbit	> 5000 mg/kg (Rabbit)
ATE US (oral)	1390 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
alpha-terpineol (98-55-5)	
LD50 oral rat	4300 mg/kg (Rat)
ATE US (oral)	4300 mg/kg body weight
Vertenex (32210-23-4)	
LD50 oral rat	5000 mg/kg (Rat)
ATE US (oral)	5000 mg/kg body weight

Skin corrosion/irritation : Causes skin irritation.

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Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitization	: May cause an allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified

benzyl acetate (140-11-4)	
IARC group	3 - Not classifiable

coumarin (91-64-5)	
IARC group	3 - Not classifiable

Reproductive toxicity	: Suspected of damaging fertility or the unborn child.
Specific target organ toxicity – single exposure	: May cause damage to organs. May cause respiratory irritation.

n-amyl acetate (628-63-7)	
Specific target organ toxicity – single exposure	May cause drowsiness or dizziness. May cause respiratory irritation.

n-pentyl butyrate (540-18-1)	
Specific target organ toxicity – single exposure	May cause respiratory irritation.

benzyl acetate (140-11-4)	
Specific target organ toxicity – single exposure	May cause respiratory irritation.

benzyl salicylate (118-58-1)	
Specific target organ toxicity – single exposure	May cause damage to organs.

ethyl butyrate (105-54-4)	
Specific target organ toxicity – single exposure	May cause respiratory irritation.

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

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

Orange terpenes (8028-48-6)	
Specific target organ toxicity – single exposure	May cause respiratory irritation.

Specific target organ toxicity – repeated exposure	: Not classified
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coumarin (91-64-5)	
Specific target organ toxicity – repeated exposure	May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard	: May be fatal if swallowed and enters airways.
Viscosity, kinematic	: < 100 mm ² /s
Symptoms/effects after inhalation	: May cause respiratory irritation. May cause an allergy or asthma symptoms or breathing difficulties if inhaled.
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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n-amyl acetate (628-63-7)	
LC50 fish 1	650 ppm (96 h; <i>Lepomis macrochirus</i>)
LC50 other aquatic organisms 1	10 - 100 mg/l (96 h)
EC50 Daphnia 1	180 mg/l (<i>Daphnia magna</i> ; Nocivity test)
EC50 other aquatic organisms 1	120 mg/l (Algae; Nocivity test)
LC50 fish 2	10 ppm (96 h; <i>Carassius auratus</i>)
TLM fish 1	65 mg/l (96 h; <i>Gambusia affinis</i>)
TLM fish 2	10 ppm (96 h; <i>Carassius auratus</i>)

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Threshold limit other aquatic organisms 1	10 - 100,96 h; Protozoa; Toxicity test
Threshold limit other aquatic organisms 2	226 mg/l (72 h)
Threshold limit algae 1	80 mg/l (168 h; Scenedesmus quadricauda; Toxicity test)
Threshold limit algae 2	63 mg/l (192 h; Microcystis aeruginosa; Toxicity test)
benzyl acetate (140-11-4)	
LC50 fish 1	68 mg/l (LC50; 96 h)
benzyl alcohol (100-51-6)	
LC50 fish 1	460 mg/l (LC50; EPA OPP 72-1; 96 h; Pimephales promelas; Static system; Fresh water; Experimental value)
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)
(+/-)-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)
coumarin (91-64-5)	
LC50 fish 1	56 mg/l (LC50; 96 h)
EC50 Daphnia 1	135 mg/l (EC50; 48 h)
ethyl butyrate (105-54-4)	
EC50 Daphnia 1	755 mg/l (EC50)
LC50 fish 2	17 mg/l (LC50; 48 h)
2-(4-tert-butylbenzyl)propionaldehyde (80-54-6)	
LC50 fish 1	> mg/l >2.2/4.6,LC50; OECD 203: Fish, Acute Toxicity Test; 96 h; Brachydanio rerio
EC50 Daphnia 1	10.7 mg/l (EC50; 48 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)
alpha-terpineol (98-55-5)	
LC50 fish 1	10 - 100 mg/l (LC50; 96 h)
Vertenex (32210-23-4)	
LC50 fish 1	15.5 mg/l (48 h; Leuciscus idus; Static system)
EC50 Daphnia 1	9.6 mg/l (24 h; Daphnia magna)
12.2. Persistence and degradability	
n-amyl acetate (628-63-7)	
Persistence and degradability	Readily biodegradable in water.
Biochemical oxygen demand (BOD)	0.31 g O ₂ /g substance
ThOD	2.34 g O ₂ /g substance
BOD (% of ThOD)	(20 day(s)) 0.72
n-pentyl butyrate (540-18-1)	
ThOD	2.53 g O ₂ /g substance
benzyl acetate (140-11-4)	
Persistence and degradability	Readily biodegradable in water.
benzyl alcohol (100-51-6)	
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil. No data on mobility of the substance available.
Biochemical oxygen demand (BOD)	1.6 g O ₂ /g substance
Chemical oxygen demand (COD)	2.4 g O ₂ /g substance

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benzyl alcohol (100-51-6)	
ThOD	2.5 g O ₂ /g substance
benzyl salicylate (118-58-1)	
Persistence and degradability	Biodegradability in water: no data available.
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
(+/-)-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
coumarin (91-64-5)	
Persistence and degradability	Readily biodegradable in water. Photolysis in the air.
2,6-dimethyl-7-octen-2-ol (18479-58-8)	
Persistence and degradability	Biodegradability in water: no data available.
ethyl butyrate (105-54-4)	
Persistence and degradability	Biodegradability in water: no data available. Biodegradability in soil: no data available. Highly mobile in soil.
ThOD	2.479 g O ₂ /g substance
alpha-hexylcinnamaldehyde (101-86-0)	
Persistence and degradability	Readily biodegradable in water.
isoeugenol (97-54-1)	
Persistence and degradability	Biodegradability in water: no data available.
2-(4-tert-butylbenzyl)propionaldehyde (80-54-6)	
Persistence and degradability	Readily biodegradable in water.
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
Orange terpenes (8028-48-6)	
Persistence and degradability	Biodegradability in water: no data available.
alpha-terpineol (98-55-5)	
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil. Photodegradation in the air.
ThOD	2.9 g O ₂ /g substance
12.3. Bioaccumulative potential	
n-amyl acetate (628-63-7)	
BCF fish 1	31 (QSAR)
Log Pow	2.3
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
n-pentyl butyrate (540-18-1)	
Log Pow	3.32 (Estimated value)
benzyl acetate (140-11-4)	
Log Pow	1.96 - 2.0 (QSAR)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).

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benzyl alcohol (100-51-6)	
Log Pow	1-1.1, Experimental value; Other; 20 °C
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
benzyl salicylate (118-58-1)	
Log Pow	4.31 (Estimated value)
citral, isomer mixture (5392-40-5)	
BCF other aquatic organisms 1	250 (BCF)
Log Pow	2.76 - 3.45 (Estimated value)
Bioaccumulative potential	Bioaccumable.
(+/-)-beta-citronellol (106-22-9)	
Log Pow	3.41 - 3.91
coumarin (91-64-5)	
BCF fish 1	< 10 (BCF; 72 h)
BCF other aquatic organisms 1	42 (BCF; 24 h; Chlorella sp.)
Log Pow	1.39
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
2,6-dimethyl-7-octen-2-ol (18479-58-8)	
Log Pow	3.47 (Estimated value)
ethyl butyrate (105-54-4)	
BCF other aquatic organisms 1	12 (BCF)
Log Pow	1.73 (Calculated)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
alpha-hexylcinnamaldehyde (101-86-0)	
BCF other aquatic organisms 1	3120 (BCF)
Log Pow	4.7
Bioaccumulative potential	Potential for bioaccumulation (500 ≤ BCF ≤ 5000).
isoeugenol (97-54-1)	
Log Pow	3.04
Bioaccumulative potential	No bioaccumulation data available.
2-(4-tert-butylbenzyl)propionaldehyde (80-54-6)	
Log Pow	4.3
linalol (78-70-6)	
Log Pow	2.84 - 3.145
Bioaccumulative potential	Bioaccumable.
Orange terpenes (8028-48-6)	
Bioaccumulative potential	No bioaccumulation data available.
alpha-terpineol (98-55-5)	
Log Pow	2.57 (Estimated value)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
Vertenex (32210-23-4)	
Log Pow	4.8

12.4. Mobility in soil

n-amyl acetate (628-63-7)	
Surface tension	0.012 N/m (30 °C)
benzyl alcohol (100-51-6)	
Surface tension	0.04 N/m (20 °C)
ethyl butyrate (105-54-4)	
Surface tension	0.025 N/m
Log Koc	Koc,41; Estimated value

12.5. Other adverse effects

No additional information available

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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

n-amyl acetate (628-63-7)

Listed on the United States TSCA (Toxic Substances Control Act) inventory
Not subject to reporting requirements of the United States SARA Section 313

CERCLA RQ : 5000 lb

n-pentyl butyrate (540-18-1)

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

benzyl acetate (140-11-4)

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

benzyl alcohol (100-51-6)

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

benzyl salicylate (118-58-1)

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

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

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

coumarin (91-64-5)

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

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

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

ethyl butyrate (105-54-4)

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

alpha-hexylcinnamaldehyde (101-86-0)

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

isoeugenol (97-54-1)

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

2-(4-tert-butylbenzyl)propionaldehyde (80-54-6)

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

Orange terpenes (8028-48-6)

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

alpha-terpineol (98-55-5)

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

Vertenex (32210-23-4)

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

Component	State or local regulations
n-amyl acetate(628-63-7)	U.S. - Massachusetts - Right To Know List; U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - Pennsylvania - RTK (Right to Know) List
n-pentyl butyrate(540-18-1)	U.S. - New Jersey - Right to Know Hazardous Substance List
benzyl acetate(140-11-4)	U.S. - New Jersey - Right to Know Hazardous Substance List
ethyl butyrate(105-54-4)	U.S. - New Jersey - Right to Know Hazardous Substance List

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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
H312	Harmful in contact with skin
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H320	Causes eye irritation
H332	Harmful if inhaled
H334	May cause an allergy or asthma symptoms or breathing difficulties if inhaled
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness
H361	Suspected of damaging fertility or the unborn child
H371	May cause damage to organs
H373	May cause damage to organs through prolonged or repeated exposure

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.