AIR401 - Black Frost Vent Clip Air Freshener

SECTION 1: IDENTIFICATION

1.1 Product identifier: AIR401 - Black Frost Vent Clip Air Freshener

Other means of identification:

Not relevant

1.2 Recommended use of the chemical and restrictions on use:

Relevant uses (Consumer use): Air freshener for vehicles

Uses advised against: All uses not specified in this section or in section 7.3

1.3 Name, U.S. address, and U.S. telephone number of the chemical manufacturer, importer, or other responsible party:

Chemical Guys
3501 Sepulveda Blvd
90505 Torrance - California - United States
Phone: 866-822-3670 - Fax: 310-988-1061
info@ChemicalGuys.com
www.ChemicalGuys.com

1.4 Emergency phone number: INFOTRAC Acct. #116262
US: 1-800-535-5053 International: +1-352-323-3500

SECTION 2: HAZARD(S) IDENTIFICATION

2.1 Classification of the substance or mixture:

29 CFR 1910.1200:

Classification of the chemical in accordance with paragraph (d)(1)(i) of §1910.1200
Flam. Liq. 4: Flammable liquids, Category 4, H227
Skin Sens. 1B: Sensitisation, skin, Category 1B, H317

2.2 Label elements:

29 CFR 1910.1200:

Warning

Hazard statements:

Flam. Liq. 4: H227 - Combustible liquid.
Skin Sens. 1B: H317 - May cause an allergic skin reaction.

Precautionary statements:

P101: If medical advice is needed, have product container or label at hand.
P102: Keep out of reach of children.
P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P280: Wear protective gloves/protective clothing/eye protection/protective footwear.
P302+P352: IF ON SKIN: Wash with plenty of soap and water.
P370+P378: In case of fire: Use Foam extinguisher (AB), Dry Chemical Powder (ABC) Fire Extinguisher, Carbon dioxide extinguisher (BC) to extinguish.
P403: Store in a well-ventilated place.
P501: Dispose of the contents/containers according to the local, state and federal regulations.

2.3 Hazards not otherwise classified (HNOC):

Not relevant

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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances:

Not relevant

3.2 Mixtures:

Chemical description: Miscellaneous products

Components:

Remaining components are non-hazardous and/or present at amounts below reportable limits. The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200.Therefore, in accordance with Appendix D to § 1910.1200, the product contains:

Identification	Chemical name/Classification	Concentration
CAS: 64742-48-9	**Naphtha (petroleum), hydrotreated heavy, < 0.1 % EC 200-753-7** Asp. Tox. 1: H304; Flam. Liq. 3: H226 - Danger	**10 - <25%**
CAS: 78-70-6	**Linalool** Eye Irrit. 2A: H319; Flam. Liq. 4: H227; Skin Irrit. 2: H315; Skin Sens. 1B: H317 - Warning	**10 - <25%**
CAS: 115-95-7	**Linalyl acetate** Eye Irrit. 2A: H319; Flam. Liq. 4: H227; Skin Irrit. 2: H315; Skin Sens. 1B: H317 - Warning	**2.5 - <10%**
CAS: 118-58-1	**benzyl salicylate** Eye Irrit. 2B: H320; Skin Sens. 1B: H317 - Warning	**2.5 - <10%**
CAS: 5989-27-5	**(R)-p-mentha-1,8-diene** Asp. Tox. 1: H304; Flam. Liq. 3: H226; Skin Irrit. 2: H315; Skin Sens. 1: H317 - Danger	**2.5 - <10%**
CAS: 32210-23-4	**4-tert-butylcyclohexyl acetate** Skin Sens. 1B: H317 - Warning	**2.5 - <10%**
CAS: 63500-71-0	**Tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans)** Eye Irrit. 2A: H319 - Warning	**1 - <2.5%**
CAS: 18479-58-8	**2,6-dimethyloct-7-en-2-ol** Eye Irrit. 2A: H319; Flam. Liq. 4: H227; Skin Irrit. 2: H315; STOT SE 3: H336 - Warning	**1 - <2.5%**
CAS: 78-69-3	**3,7-dimethyloctan-3-ol** Eye Irrit. 2A: H319; Flam. Liq. 4: H227; Skin Irrit. 2: H315; Skin Sens. 1B: H317 - Warning	**1 - <2.5%**
CAS: 101-86-0	**Hexyl cinnam-aldehyde** Skin Sens. 1B: H317 - Warning	**1 - <2.5%**
CAS: 8000-41-7	**Terpineol** Eye Irrit. 2A: H319; Flam. Liq. 4: H227; Skin Irrit. 2: H315 - Warning	**1 - <2.5%**
CAS: 68039-49-6	**2,4-dimethylcyclohex-3-ene-1-carbaldehyde** Flam. Liq. 4: H227; Skin Irrit. 2: H315; Skin Sens. 1B: H317 - Warning	**<1%**
CAS: 5392-40-5	**Citral** Flam. Liq. 4: H227; Skin Irrit. 2: H315; Skin Sens. 1: H317 - Warning	**<1%**
CAS: 94333-86-5	**Artemisia, ext.** Acute Tox. 3: H301; Asp. Tox. 1: H304; Skin Sens. 1: H317; STOT RE 2: H373 - Danger	**<1%**
CAS: 67634-00-8	**Allyl (3-methylbutoxy)acetate** Acute Tox. 2: H330; Acute Tox. 4: H302; Flam. Liq. 4: H227 - Danger	**<1%**

To obtain more information on the hazards of the substances consult sections 11, 12 and 16.

SECTION 4: FIRST-AID MEASURES

4.1 Description of necessary measures:

The symptoms resulting from intoxication can appear after exposure, therefore, in case of doubt, seek medical attention for direct exposure to the chemical product or persistent discomfort, showing the SDS of this product.

By inhalation:

This product is not classified as hazardous through inhalation,however, it is recommended in case of intoxication symptoms to remove the person affected from the area of exposure, provide clean air and keep at rest. Request medical attention if symptoms persist.

By skin contact:

May cause an allergic skin reaction. In case of contact it is recommended to clean the affected area thoroughly with water and neutral soap. In case of changes on the skin (stinging, redness, rashes, blisters), seek medical advice with this Safety Data Sheet

By eye contact:

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SECTION 4: FIRST-AID MEASURES (continued)

Rinse eyes thoroughly with water for at least 15 minutes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, as this could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS of the product.

By ingestion/aspiration:

Do not induce vomiting, but if it does happen keep the head down to avoid aspiration. Keep the person affected at rest. Rinse out the mouth and throat, as they may have been affected during ingestion.

4.2 Most important symptoms/effects, acute and delayed:

Acute and delayed effects are indicated in sections 2 and 11.

4.3 Indication of immediate medical attention and special treatment needed, if necessary:

Not relevant

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Suitable (and unsuitable) extinguishing media:

Suitable extinguishing media:

Foam extinguisher (AB), Dry Chemical Powder (ABC) Fire Extinguisher, Carbon dioxide extinguisher (BC)

Unsuitable extinguishing media:

Water jet

5.2 Specific hazards arising from the chemical:

As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.

5.3 Special protective equipment and precautions for fire-fighters:

Depending on the magnitude of the fire it may be necessary to use full protective clothing and Self Contained Breathing Apparatus. Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...)

Additional provisions:

As in any fire, prevent human exposure to fire, smoke, fumes or products of combustion. Only properly trained personnel should be involved in firefighting. Evacuate nonessential personnel from the fire area. Destroy any source of ignition. In case of fire, refrigerate the storage containers and tanks for products susceptible to inflammation. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

For non-emergency personnel:

Isolate leaks provided that there is no additional risk for the people performing this task. Evacuate the area and keep out those without protection. Personal protection equipment must be used against potential contact with the spilt product (See section 8). Above all prevent the formation of any vapour-air flammable mixtures, through either ventilation or the use of an inert medium. Remove any source of ignition. Eliminate electrostatic charges by interconnecting all the conductive surfaces on which static electricity could form, and also ensuring that all surfaces are connected to the ground.

For emergency responders:

Wear protective equipment. Keep unprotected persons away. See section 8.

6.2 Environmental precautions:

This product is not classified as hazardous to the environment. Keep product away from drains, surface and underground water.

6.3 Methods and materials for containment and cleaning up:

For accidental releases in excess of reportables quantities (RQ) (Table 302.4), refer to 40 CFR 302 for detailed instructions concerning reporting requirements and notify the National Response Center (800) 424-8802.

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SECTION 6: ACCIDENTAL RELEASE MEASURES (continued)

Prevent the entrance of product in drains, sewers or watercourses. Absorb the spill using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. Collect the product in appropriate containers and manage it according to current legislation.
Spillages in water or sea:
Small spillages:
Contain spillage using barriers or similar equipment. Use suitable absorbents for collection and treat the waste in accordance with current regulations.
Large spillages:
If possible, contain spillage in open water using barriers or similar equipment. If this is not possible, try to control its spread and collect the product with suitable mechanical means. Always consult experts before using dispersants and make sure you have the necessary approvals if they are to be used. Treat the waste according to current regulations.

6.4 Reference to other sections:

See sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling:

A.- General precautions for safe use

Comply with the current legislation concerning the prevention of industrial risks with regards manually handling weights. Maintain order, cleanliness and dispose of using safe methods (section 6).

B.- Technical recommendations for the prevention of fires and explosions

Avoid the evaporation of the product as it contains flammable substances, which could form flammable vapour/air mixtures in the presence of sources of ignition. Control sources of ignition (mobile phones, sparks,...) and transfer at slow speeds to avoid the creation of electrostatic charges. Consult section 10 for conditions and materials that should be avoided.

C.- Technical recommendations on general occupational hygiene

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

D.- Technical recommendations to prevent environmental risks

It is recommended to have absorbent material available at close proximity to the product (See subsection 6.3)

7.2 Conditions for safe storage, including any incompatibilities:

A.- Specific storage requirements

Minimum Temp.: 41 ºF

Maximum Temp.: 86 ºF

Maximum time: 6 Months

B.- General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

7.3 Specific end use(s):

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters:

Substances whose occupational exposure limits have to be assessed in the workplace:

US. ACGIH Threshold Limit Values (2026):

Identification	Occupational exposure limits		
(R)-p-mentha-1,8-diene	TLV-TWA	3 ppm	
CAS: 5989-27-5	TLV-STEL		
Citral	TLV-TWA	5 ppm	
CAS: 5392-40-5	TLV-STEL		

CALIFORNIA- TABLE AC-1 PERMISSIBLE EXPOSURE LIMITS FOR CHEMICAL CONTAMINANTS:

Identification	Occupational exposure limits		
Naphtha (petroleum), hydrotreated heavy, < 0.1 % EC 200-753-7	PEL	100 ppm	400 mg/m³
CAS: 64742-48-9	STEL		

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

8.2 Appropriate engineering controls:

A.- Individual protection measures, such as personal protective equipment

As a preventative measure it is recommended to use basic Personal Protection Equipment. For more information on Personal Protection Equipment (storage, use, cleaning, maintenance, class of protection,…) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1. All information contained herein is a recommendation, the information on clothing performance must be combined with professional judgment, and a clear understanding of the clothing application, to provide the best protection to the worker. All chemical protective clothing use must be based on a hazard assessment to determine the risks for exposure to chemicals and other hazards. Conduct hazard assessments in accordance with 29 CFR 1910.132.

B.- Respiratory protection

If the working conditions and/or safety measures adopted do not allow keeping the airborne concentration of the product below the exposure limits (if any) or at acceptable levels (if no exposure limits exist), suitable respiratory protection equipment chosen by a qualified professional should be used.

C.- Specific protection for the hands

Not relevant

D.- Eye and face protection

Not relevant

E.- Bodily protection

Not relevant

F.- Additional emergency measures

It is advised to implement additional emergency equipments in workplaces that are particularly exposed to the product or in situations where risk assessments highlight the necessity of such equipments.

It is not necessary to take additional emergency measures.

Environmental exposure controls:

To comply with environmental protection regulations, it is recommended to prevent any spillage of the product and its container. For more detailed information, please refer to subsection 7.1.D.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

Appearance:

Physical state at 68 ºF:	Liquid
Appearance:	Transparent
Color:	Colorless
Odor:	Cologne

Volatility:

Boiling point at atmospheric pressure:	268 ºF
Vapour pressure at 68 ºF:	2097 Pa
Vapour pressure at 122 ºF:	11064.34 Pa (11.06 kPa)
Evaporation rate at 68 ºF:	Not relevant *

Product description:

Density at 68 ºF:	904.5 kg/m³
Relative density at 68 ºF:	0.904
Dynamic viscosity at 68 ºF:	0 mPa·s
Kinematic viscosity at 68 ºF:	0 mm²/s
Kinematic viscosity at 104 ºF:	Not relevant *
Concentration:	Not relevant *
pH:	Not relevant *
Relative vapour density at 68 ºF:	Not relevant *

*Not relevant due to the nature of the product, not providing information property of its hazards.

- CONTINUED ON NEXT PAGE -

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continued)

Partition coefficient n-octanol/water 68 ºF:	Not relevant *
Solubility in water at 68 ºF:	Not relevant *
Solubility properties:	Not relevant *
Decomposition temperature:	Not relevant *
Melting point/freezing point:	Not relevant *
Flammability:	
Flash Point:	>149 ºF
Flammability (solid, gas):	Not relevant *
Autoignition temperature:	392 ºF
Lower flammability limit:	Not relevant *
Upper flammability limit:	Not relevant *
Particle characteristics:	
Median equivalent diameter:	Not relevant *

9.2 Other information:

Information with regard to physical hazard classes:

Explosive properties:	Not relevant *
Oxidising properties:	Not relevant *
Corrosive to metals:	Not relevant *
Heat of combustion:	Not relevant *
Aerosols-total percentage (by mass) of flammable components:	Not relevant *
Other safety characteristics:	
Surface tension at 68 ºF:	Not relevant *
Refraction index:	Not relevant *
MIR (Maximum Incremental Reactivity):	0.29

*Not relevant due to the nature of the product, not providing information property of its hazards.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity:

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7 from Safety Data Sheet.

10.2 Chemical stability:

Chemically stable under the indicated conditions of storage, handling and use.

10.3 Possibility of hazardous reactions:

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

10.4 Conditions to avoid:

Applicable for handling and storage at room temperature:

Shock and friction	Contact with air	Increase in temperature	Sunlight	Humidity
Not applicable	Not applicable	Risk of combustion	Avoid direct impact	Not applicable

10.5 Incompatible materials:

Acids	Water	Oxidising materials	Combustible materials	Others
Avoid strong acids	Not applicable	Avoid direct impact	Not applicable	Avoid alkalis or strong bases

10.6 Hazardous decomposition products:

Contains substances which require external energy for spontaneous decomposition. Form explosive peroxides when distilled, evaporated or otherwise concentrated.

SECTION 11: TOXICOLOGICAL INFORMATION

- CONTINUED ON NEXT PAGE -

SECTION 11: TOXICOLOGICAL INFORMATION (continued)

11.1 Information on toxicological effects:

The experimental information related to the toxicological properties of the product itself is not available

Dangerous health implications:

In case of exposure that is repetitive, prolonged or at concentrations higher than recommended by the occupational exposure limits, it may result in adverse effects on health depending on the means of exposure:

A- Ingestion (acute effect):

- Acute toxicity: Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous for consumption. For more information see section 3.
- Corrosivity/Irritability: Based on available data, the classification criteria are not met. However, it does contain substances classified as hazardous for this effect. For more information see section 3.

B- Inhalation (acute effect):

- Acute toxicity : Based on available data, the classification criteria are not met. However, it contains substances classified as hazardous for inhalation. For more information see section 3.
- Corrosivity/Irritability: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

C- Contact with the skin and the eyes (acute effect):

- Contact with the skin: Based on available data, the classification criteria are not met. However, it contains substances classified as hazardous for skin contact. For more information see section 3.
- Contact with the eyes: Based on available data, the classification criteria are not met. However, it does contain substances classified as hazardous for this effect. For more information see section 3.

D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):

- Carcinogenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for the effects mentioned. For more information see section 3.
  IARC: (R)-p-mentha-1,8-diene (3: Not classifiable as to its carcinogenicity to humans); Benzyl acetate (3: Not classifiable as to its carcinogenicity to humans); Naphtha (petroleum), hydrotreated heavy, < 0.1 % EC 200-753-7 (3: Not classifiable as to its carcinogenicity to humans)
- Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- Reproductive toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

E- Sensitizing effects:

- Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous with sensitising effects. For more information see section 3.
- Skin: Prolonged contact with the skin can result in episodes of allergic contact dermatitis.

F- Specific target organ toxicity (STOT) - single exposure:

Based on available data, the classification criteria are not met. However, it contains substances classified as hazardous for inhalation. For more information see section 3.

G- Specific target organ toxicity (STOT)-repeated exposure:

- Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met, however, it does contain substances which are classified as dangerous due to repetitive exposure. For more information see section 3.
- Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

H- Aspiration hazard:

Based on available data, the classification criteria are not met. However, it does contain substances classified as hazardous for this effect. For more information see section 3.

Other information:

Not relevant

Specific toxicology information on the substances:

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SECTION 11: TOXICOLOGICAL INFORMATION (continued)

Identification	Acute toxicity		Genus
Linalool CAS: 78-70-6	LD50 oral	2790 mg/kg	Rat
	LD50 dermal	5610 mg/kg	Rabbit
	LC50 inhalation vapour		
Linalyl acetate CAS: 115-95-7	LD50 oral	14500 mg/kg	Rat
	LD50 dermal	5610 mg/kg	Rabbit
	LC50 inhalation vapour		
benzyl salicylate CAS: 118-58-1	LD50 oral	3031 mg/kg	Rat
	LD50 dermal	14150 mg/kg	Rabbit
	LC50 inhalation vapour		
2,6-dimethyloct-7-en-2-ol CAS: 18479-58-8	LD50 oral	3020 mg/kg	Rat
	LD50 dermal		
	LC50 inhalation vapour		
Hexyl cinnam-aldehyde CAS: 101-86-0	LD50 oral	3100 mg/kg	Rat
	LD50 dermal	3000 mg/kg	Rabbit
	LC50 inhalation vapour		
Artemisia, ext. CAS: 94333-86-5	LD50 oral	100 mg/kg	
	LD50 dermal		
	LC50 inhalation vapour		
4-tert-butylcyclohexyl acetate CAS: 32210-23-4	LD50 oral	3370 mg/kg	
	LD50 dermal		
	LC50 inhalation vapour		
Terpineol CAS: 8000-41-7	LD50 oral	4300 mg/kg	
	LD50 dermal		
	LC50 inhalation vapour		
Naphtha (petroleum), hydrotreated heavy, < 0.1 % EC 200-753-7 CAS: 64742-48-9	LD50 oral	15000 mg/kg	Rat
	LD50 dermal	3160 mg/kg	Rabbit
	LC50 inhalation vapour		
Allyl (3-methylbutoxy)acetate CAS: 67634-00-8	LD50 oral	500 mg/kg	Rat
	LD50 dermal		
	LC50 inhalation mist	0.46 mg/L	Rat
2,4-dimethylcyclohex-3-ene-1-carbaldehyde CAS: 68039-49-6	LD50 oral	2500 mg/kg	
	LD50 dermal		
	LC50 inhalation vapour		
Citral CAS: 5392-40-5	LD50 oral	4950 mg/kg	Rat
	LD50 dermal	2250 mg/kg	Rabbit
	LC50 inhalation vapour		

SECTION 12: ECOLOGICAL INFORMATION

The experimental information related to the eco-toxicological properties of the product itself is not available

Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

12.1 Ecotoxicity (aquatic and terrestrial, where available):

Acute toxicity:

Identification	Concentration		Species	Genus
Linalyl acetate CAS: 115-95-7	LC50	11 mg/L (96 h)	Cyprinus carpio	Fish
	EC50	15 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	62 mg/L (72 h)	Desmodesmus subspicatus	Algae
(R)-p-mentha-1,8-diene CAS: 5989-27-5	LC50	>0.1 - 1 mg/L (96 h)		Fish
	EC50	>0.1 - 1 mg/L (48 h)		Crustacean
	EC50	>0.1 - 1 mg/L (72 h)		Algae

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SECTION 12: ECOLOGICAL INFORMATION (continued)

Identification	Concentration		Species	Genus
Tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans)	LC50	Not relevant		
CAS: 63500-71-0	EC50	320 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	Not relevant		
3,7-dimethyloctan-3-ol	LC50	8.9 mg/L (96 h)	Brachydanio rerio	Fish
CAS: 78-69-3	EC50	14.2 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	21.6 mg/L (72 h)	Scenedesmus subspicatus	Algae
Hexyl cinnam-aldehyde	LC50	>0.1 - 1 mg/L (96 h)		Fish
CAS: 101-86-0	EC50	>0.1 - 1 mg/L (48 h)		Crustacean
	EC50	>0.1 - 1 mg/L (72 h)		Algae
2,4-dimethylcyclohex-3-ene-1-carbaldehyde	LC50	>1 - 10 mg/L (96 h)		Fish
CAS: 68039-49-6	EC50	>1 - 10 mg/L (48 h)		Crustacean
	EC50	>1 - 10 mg/L (72 h)		Algae
Citral	LC50	6.1 mg/L (24 h)	Oryzias latipes	Fish
CAS: 5392-40-5	EC50	11 mg/L (24 h)	Daphnia magna	Crustacean
	EC50	16 mg/L (72 h)	Scenedesmus subspicatus	Algae
Artemisia, ext.	LC50	>1 - 10 mg/L (96 h)		Fish
CAS: 94333-86-5	EC50	>1 - 10 mg/L (48 h)		Crustacean
	EC50	>1 - 10 mg/L (72 h)		Algae
Allyl (3-methylbutoxy)acetate	LC50	0.77 mg/L (96 h)	N/A	Fish
CAS: 67634-00-8	EC50	5.09 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	2.06 mg/L (72 h)	Pseudokirchneriella subcapitata	Algae

12.2 Persistence and degradability:

Substance-specific information:

Identification	Degradability		Biodegradability	
Linalool	BOD5	Not relevant	Concentration	2 mg/L
CAS: 78-70-6	COD	Not relevant	Period	28 days
	BOD5/COD	Not relevant	% Biodegradable	64.2 %
Linalyl acetate	BOD5	Not relevant	Concentration	81 mg/L
CAS: 115-95-7	COD	Not relevant	Period	28 days
	BOD5/COD	Not relevant	% Biodegradable	80 %
benzyl salicylate	BOD5	Not relevant	Concentration	100 mg/L
CAS: 118-58-1	COD	Not relevant	Period	28 days
	BOD5/COD	Not relevant	% Biodegradable	93 %
4-tert-butylcyclohexyl acetate	BOD5	Not relevant	Concentration	20.7 mg/L
CAS: 32210-23-4	COD	Not relevant	Period	29 days
	BOD5/COD	Not relevant	% Biodegradable	75 %
Tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans)	BOD5	Not relevant	Concentration	10 mg/L
CAS: 63500-71-0	COD	Not relevant	Period	28 days
	BOD5/COD	Not relevant	% Biodegradable	10 %
2,6-dimethyloct-7-en-2-ol	BOD5	Not relevant	Concentration	10 mg/L
CAS: 18479-58-8	COD	Not relevant	Period	28 days
	BOD5/COD	Not relevant	% Biodegradable	72 %
3,7-dimethyloctan-3-ol	BOD5	Not relevant	Concentration	Not relevant
CAS: 78-69-3	COD	Not relevant	Period	28 days
	BOD5/COD	Not relevant	% Biodegradable	61 %
Citral	BOD5	0.56 g O2/g	Concentration	100 mg/L
CAS: 5392-40-5	COD	1.99 g O2/g	Period	28 days
	BOD5/COD	0.28	% Biodegradable	92 %
Allyl (3-methylbutoxy)acetate	BOD5	Not relevant	Concentration	240 mg/L
CAS: 67634-00-8	COD	Not relevant	Period	13 days
	BOD5/COD	Not relevant	% Biodegradable	78 %

12.3 Bioaccumulative potential:

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SECTION 12: ECOLOGICAL INFORMATION (continued)

Substance-specific information:

Identification	Bioaccumulation potential	
Linalool CAS: 78-70-6	BCF	
	Pow Log	2.9
	Potential	
Linalyl acetate CAS: 115-95-7	BCF	174
	Pow Log	3.9
	Potential	High
benzyl salicylate CAS: 118-58-1	BCF	311
	Pow Log	4
	Potential	High
4-tert-butylcyclohexyl acetate CAS: 32210-23-4	BCF	335
	Pow Log	4.8
	Potential	High
2,6-dimethyloct-7-en-2-ol CAS: 18479-58-8	BCF	
	Pow Log	3.25
	Potential	
3,7-dimethyloctan-3-ol CAS: 78-69-3	BCF	99
	Pow Log	3.3
	Potential	Moderate
Hexyl cinnam-aldehyde CAS: 101-86-0	BCF	17
	Pow Log	
	Potential	Low
Citral CAS: 5392-40-5	BCF	10
	Pow Log	3.45
	Potential	Low
Allyl (3-methylbutoxy)acetate CAS: 67634-00-8	BCF	
	Pow Log	1.85
	Potential	

12.4 Mobility in soil:

Identification	Absorption/desorption		Volatility	
Linalool CAS: 78-70-6	Koc	75	Henry	Not relevant
	Conclusion	High	Dry soil	Not relevant
	Surface tension	Not relevant	Moist soil	Not relevant
Linalyl acetate CAS: 115-95-7	Koc	518	Henry	177 Pa·m³/mol
	Conclusion	Low	Dry soil	Yes
	Surface tension	Not relevant	Moist soil	Yes
benzyl salicylate CAS: 118-58-1	Koc	5623	Henry	Not relevant
	Conclusion	Immobile	Dry soil	Not relevant
	Surface tension	Not relevant	Moist soil	Not relevant
4-tert-butylcyclohexyl acetate CAS: 32210-23-4	Koc	3923	Henry	Not relevant
	Conclusion	Low	Dry soil	Not relevant
	Surface tension	Not relevant	Moist soil	Not relevant
Tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans) CAS: 63500-71-0	Koc	42	Henry	1.71E-3 Pa·m³/mol
	Conclusion	Very High	Dry soil	Not relevant
	Surface tension	Not relevant	Moist soil	Not relevant
2,6-dimethyloct-7-en-2-ol CAS: 18479-58-8	Koc	177.83	Henry	Not relevant
	Conclusion	Moderate	Dry soil	Not relevant
	Surface tension	Not relevant	Moist soil	Not relevant
3,7-dimethyloctan-3-ol CAS: 78-69-3	Koc	56	Henry	5.54 Pa·m³/mol
	Conclusion	Very High	Dry soil	Yes
	Surface tension	2.678E-2 N/m (77 ºF)	Moist soil	Yes

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SECTION 12: ECOLOGICAL INFORMATION (continued)

Identification	Absorption/desorption		Volatility	
Allyl (3-methylbutoxy)acetate	Koc	80	Henry	Not relevant
CAS: 67634-00-8	Conclusion	Very High	Dry soil	Not relevant
	Surface tension	Not relevant	Moist soil	Not relevant

12.5 Results of PBT and vPvB assessment:

Not relevant

12.6 Other adverse effects:

Not described

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Disposal methods:

Wastes generated by normal household activities (e.g., routine house and yard maintenance) are excluded from the definition of hazardous waste (Title 40 of the Code of Federal Regulations Part 261.4)

Waste management (disposal and evaluation):

Follow RCRA framework and EPA regulation for to ensure that hazardous waste is managed safely and properly.Waste should not be disposed of to drains. Remind, It is the responsibility of the waste generator to evaluate whether his wastes are hazardous by characteristics or listing.See section 6 for further information about Accidental release measures.

Regulations related to waste management:

Legislation related to waste management:

40 CFR Solid Wastes - Part 239 through 282.
State regulatory requirements for generators may be more stringent than those in the federal program. Be sure to check the state´s policies.

SECTION 14: TRANSPORT INFORMATION

Transport of dangerous goods by land:

With regard to 49 CFR on the Transport of Dangerous Goods:

14.1 UN number: Not relevant

14.2 UN proper shipping name: Not relevant

14.3 Transport hazard class(es): Not relevant

Labels: Not relevant

14.4 Packing group, if applicable: Not relevant

14.5 Marine pollutant: No

14.6 Special precautions which a user needs to be aware of, or needs to comply with, in connection with transport or conveyance either within or outside their premises

Physico-Chemical properties: see section 9

14.7 Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code): Not relevant

Transport of dangerous goods by sea:

With regard to IMDG 42-24:

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SECTION 14: TRANSPORT INFORMATION (continued)

14.1	**UN number:**	Not relevant
14.2	**UN proper shipping name:**	Not relevant
14.3	**Transport hazard class(es):**	Not relevant
	Labels:	Not relevant
14.4	**Packing group, if applicable:**	Not relevant
14.5	**Marine pollutant:**	No
14.6	**Special precautions which a user needs to be aware of, or needs to comply with, in connection with transport or conveyance either within or outside their premises**	
	Special regulations:	Not relevant
	EmS Codes:	
	Physico-Chemical properties:	see section 9
	Limited quantities:	Not relevant
	Segregation group:	Not relevant
14.7	**Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code):**	Not relevant

Transport of dangerous goods by air:

With regard to IATA/ICAO 2026:

14.1	**UN number:**	Not relevant
14.2	**UN proper shipping name:**	Not relevant
14.3	**Transport hazard class(es):**	Not relevant
	Labels:	Not relevant
14.4	**Packing group, if applicable:**	Not relevant
14.5	**Marine pollutant:**	No
14.6	**Special precautions which a user needs to be aware of, or needs to comply with, in connection with transport or conveyance either within or outside their premises**	
	Physico-Chemical properties:	see section 9
14.7	**Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code):**	Not relevant

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations specific for the product in question:

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SECTION 15: REGULATORY INFORMATION (continued)

- CALIFORNIA LABOR CODE - The Hazardous Substances List: Benzyl acetate (140-11-4)

- California Proposition 65 (the Safe Drinking Water and Toxic Enforcement Act of 1986) - Birth defects or other reproductive harm: Not relevant

- California Proposition 65 (the Safe Drinking Water and Toxic Enforcement Act of 1986) - Cancer: Not relevant

- CANADA-Domestic Substances List (DSL): All components of this product comply with the inventory requirements administered by the governing country.

- CANADA-Non-Domestic Substances List (NDSL): Not relevant

- The Toxic Substances Control Act (TSCA) : All components of this product comply with the inventory requirements administered by the governing country.

Specific provisions in terms of protecting people or the environment:

It is recommended to use the information provided in this safety data sheet as a foundation for conducting workplace-specific risk assessments. These assessments will help establish the appropriate risk prevention measures for handling, using, storing, and disposing of this product.

Other legislation:

Take into consideration other applicable federal, state, and local laws and local regulations.

SECTION 16: OTHER INFORMATION

Legislation related to safety data sheets:

This safety data sheet has been designed in accordance with Appendix d to §1910.1200 - Safety data sheets

Texts of the legislative phrases mentioned in section 2:

H317: May cause an allergic skin reaction.
H227: Combustible liquid.

Texts of the legislative phrases mentioned in section 3:

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3

29 CFR 1910.1200:

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SECTION 16: OTHER INFORMATION (continued)

Acute Tox. 2: H330 - Fatal if inhaled.
Acute Tox. 3: H301 - Toxic if swallowed.
Acute Tox. 4: H302 - Harmful if swallowed.
Asp. Tox. 1: H304 - May be fatal if swallowed and enters airways.
Eye Irrit. 2A: H319 - Causes serious eye irritation.
Eye Irrit. 2B: H320 - Causes eye irritation.
Flam. Liq. 3: H226 - Flammable liquid and vapour.
Flam. Liq. 4: H227 - Combustible liquid.
Skin Irrit. 2: H315 - Causes skin irritation.
Skin Sens. 1: H317 - May cause an allergic skin reaction.
Skin Sens. 1B: H317 - May cause an allergic skin reaction.
STOT RE 2: H373 - May cause damage to organs through prolonged or repeated exposure.
STOT SE 3: H336 - May cause drowsiness or dizziness.

Advice related to training:

According to 29 CFR 1910. 1200, training on chemical hazards is necessary for employees using this product. This training will facilitate their understanding and interpretation of the safety data sheet, as well as the product label.

Principal bibliographical sources:

Occupational Safety & Health Administration (OSHA).

Abbreviations and acronyms:

IMDG: International maritime dangerous goods code
IATA: International Air Transport Association
ICAO: International Civil Aviation Organisation
COD: Chemical Oxygen Demand
BOD5: 5-day biochemical oxygen demand
BCF: Bioconcentration factor
LD50: Lethal Dose 50
CL50: Lethal Concentration 50
EC50: Effective concentration 50
Log-POW: Octanol-water partition coefficient
Koc: Partition coefficient of organic carbon
IARC: International Agency for Research on Cancer

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END OF SAFETY DATA SHEET