



Date of compilation: 10/21/2022

Version: 1

SECTION 1: IDENTIFICATION

1.1 GHS Product identifier: 5772 - PEONY LYCHEE

Other means of identification:

Non-applicable

1.2 Recommended use of the chemical and restrictions on use:

Relevant uses: Miscellaneous. For professional users/industrial user only.

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

SECTION 2: HAZARD(S) IDENTIFICATION

2.1 Classification of the substance or mixture:

29 CFR 1910.1200:

Classification of this product has been carried out in accordance with paragraph (d) of § 1910.1200.

Eye Dam. 1: Serious eye damage, Category 1, H318

Flam. Liq. 3: Flammable liquids, Category 3, H226

Repr. 2: Reproductive toxicity, Category 2, H361

Skin Irrit. 2: Skin irritation, Category 2, H315

Skin Sens. 1B: Sensitisation, skin, Category 1B, H317

2.2 Label elements:

29 CFR 1910.1200:

Danger



Hazard statements:

Eye Dam. 1: H318 - Causes serious eye damage.

Flam. Liq. 3: H226 - Flammable liquid and vapour.

Repr. 2: H361 - Suspected of damaging fertility or the unborn child.

Skin Irrit. 2: H315 - Causes skin irritation.

Skin Sens. 1B: H317 - May cause an allergic skin reaction.

Precautionary statements:

P201: Obtain special instructions before use.

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P280: Wear protective gloves/protective clothing/respiratory protection/eye protection/protective footwear.

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

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P308+P313: IF exposed or concerned: Get medical advice/attention.

P370+P378: In case of fire: Use ABC powder extinguisher to put it out.

P501: Dispose of contents and / or containers in accordance with regulations on hazardous waste or packaging and packaging waste respectively.

Substances that contribute to the classification

Benzyl salicylate; Geraniol; 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one; Linalyl acetate

2.3 Hazards not otherwise classified (HNOC):

Non-applicable

5772 - PEONY LYCHEE



Date of compilation: 10/21/2022

Version: 1

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances:

Non-applicable

3.2 Mixtures:

Chemical description: Aromatising mixture based on natural and/or synthetic ingredients

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: 118-58-1	Benzyl salicylate Eye Irrit. 2A: H319; Eye Irrit. 2B: H320; Skin Sens. 1: H317 - Warning	2.5 - <10 %
CAS: 106-24-1	Geraniol Eye Dam. 1: H318; Skin Irrit. 2: H315; Skin Sens. 1: H317 - Danger	2.5 - <10 %
CAS: 60-12-8	2-phenylethanol Acute Tox. 4: H302; Eye Irrit. 2A: H319 - Warning	2.5 - <10 %
CAS: 8008-57-9	CITRUS AURANTIUM DULCIS OIL Asp. Tox. 1: H304; Flam. Liq. 3: H226; Skin Irrit. 2: H315; Skin Sens. 1: H317 - Danger	2.5 - <10 %
CAS: 54464-57-2	1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one Skin Irrit. 2: H315; Skin Sens. 1B: H317 - Warning	2.5 - <10 %
CAS: 4940-11-8	2-ethyl-3-hydroxy-4-pyrone Acute Tox. 4: H302 - Warning	2.5 - <10 %
CAS: 115-95-7	Linalyl acetate 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: 63500-71-0	Tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans) Eye Irrit. 2A: H319 - Warning	1 - <2.5 %
CAS: 121-33-5	Vanillin Eye Irrit. 2A: H319 - Warning	1 - <2.5 %
CAS: 5392-40-5	Citral Flam. Liq. 4: H227; Skin Irrit. 2: H315; Skin Sens. 1: H317 - Warning	1 - <2.5 %
CAS: 78-70-6	Linalool Eye Irrit. 2A: H319; Flam. Liq. 4: H227; Skin Irrit. 2: H315; Skin Sens. 1B: H317 - Warning	1 - <2.5 %
CAS: 106-22-9	Citronellol Eye Irrit. 2A: H319; Skin Irrit. 2: H315; Skin Sens. 1B: H317 - Warning	<1 %
CAS: 1205-17-0	a-methyl-1,3-benzodioxole-5-propionaldehyde Repr. 2: H361; Skin Sens. 1B: H317 - Warning	<1 %
CAS: 81786-73-4	(z)-3,4,5,6,6-pentamethylhept-3-en-2-one Flam. Liq. 4: H227; Skin Sens. 1B: H317 - Warning	<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 does not contain substances classified as hazardous for inhalation, however, in case of symptoms of intoxication remove the person affected from the exposure area and provide with fresh air. Seek medical attention if the symptoms get worse or persist.

By skin contact:



Date of compilation: 10/21/2022

Version: 1

SECTION 4: FIRST-AID MEASURES (continued)

Remove contaminated clothing and footwear, rinse skin or shower the person affected if appropriate with plenty of cold water and neutral soap. In serious cases see a doctor. If the product causes burns or freezing, clothing should not be removed as this could worsen the injury caused if it is stuck to the skin. If blisters form on the skin, these should never be burst as this will increase the risk of infection.

By eye contact:

Rinse eyes thoroughly with lukewarm water for at least 15 minutes. Do not allow the person affected to rub or close their eyes. 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:

Non-applicable

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Suitable (and unsuitable) extinguishing media:

Suitable extinguishing media:

If possible use polyvalent powder fire extinguishers (ABC powder), alternatively use foam or carbon dioxide extinguishers (CO₂).

Unsuitable extinguishing media:

IT IS RECOMMENDED NOT to use full jet water as an extinguishing agent.

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 individual respiratory equipment. 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:

See section 8.

6.2 Environmental precautions:

The characteristic of Ignitability per RCRA could apply to the unused product if it becomes a waste material. The EPA hazardous waste number D001 could apply. It is the responsibility of the waste generator to evaluate whether his wastes are hazardous by characteristics or listing.

6.3 Methods and materials for containment and cleaning up:

It is recommended:

5772 - PEONY LYCHEE



Date of compilation: 10/21/2022

Version: 1

SECTION 6: ACCIDENTAL RELEASE MEASURES (continued)

Absorb the spillage using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. For any concern related to disposal consult section 13.

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 standards 29 CFR 1910 Occupational Safety and Health Standards. Keep containers hermetically sealed. Control spills and residues, destroying them with safe methods (section 6). Avoid leakages from the container. Maintain order and cleanliness where dangerous products are used.

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

Because the product is a flammable liquid, storage should meet the requirement of 29 CFR 1910.106, Flammable and Combustible Liquids Code. Transfer in well ventilated areas, preferably through localized extraction. Fully control sources of ignition (mobile phones, sparks,...) and ventilate during cleaning operations. Avoid the existence of dangerous atmospheres inside containers, applying inertization systems where possible. Transfer at a slow speed to avoid the creation of electrostatic charges. Against the possibility of electrostatic charges: ensure a perfect equipotential connection, always use groundings, do not wear work clothes made of acrylic fibres, preferably wearing cotton clothing and conductive footwear. Comply with the essential security requirements for equipment and systems and with the minimum requirements for protecting the security and health of workers. Consult section 10 for conditions and materials that should be avoided.

C.- Technical recommendations on general occupational hygiene

PREGNANT WOMEN SHOULD NOT BE EXPOSED TO THIS PRODUCT. Transfer in fixed places that comply with the necessary security conditions (emergency showers and eyewash stations in close proximity), using personal protection equipment, especially on the hands and face (See section 8). Limit manual transfers to containers of small amounts. 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.- Technical measures for storage

Maximum time: 12 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 monitored in the workplace:

There are no applicable occupational exposure limits for the substances contained in the product

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




Date of compilation: 10/21/2022

Version: 1

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)


Pictogram	PPE	Remarks
 Mandatory respiratory tract protection	Filter mask for gases and vapours	Replace when there is a taste or smell of the contaminant inside the face mask. If the contaminant comes with warnings it is recommended to use isolation equipment. Use respirator in accordance with manufacturer's use limitations and OSHA standard 1910.134 (29CFR)

C.- Specific protection for the hands



Pictogram	PPE	Remarks
 Mandatory hand protection	Protective gloves against minor risks	Replace gloves in case of any sign of damage. For prolonged periods of exposure to the product for professional /industrial users, we recommend using chemical protection gloves. Use gloves in accordance with manufacturer's use limitations and OSHA standard 1910.138 (29CFR)

As the product is a mixture of several substances, the resistance of the glove material can not be calculated in advance with total reliability and has therefore to be checked prior to the application.



D.- Eye and face protection

Pictogram	PPE	Remarks
 Mandatory face protection	Panoramic glasses against splash/projections.	Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing. Use this PPE in accordance with manufacturer's use limitations and OSHA standard 1910.133 (29CFR)

E.- Bodily protection

Pictogram	PPE	Remarks
 Mandatory complete body protection	Antistatic and fireproof protective clothing	Limited protection against flames.
 Mandatory foot protection	Safety footwear with antistatic and heat resistant properties	Replace boots at any sign of deterioration. Use foot protection in accordance with manufacturer's use limitations and OSHA standard 1910.136 (29CFR)

F.- Additional emergency measures

Emergency measure	Standards	Emergency measure	Standards
 Emergency shower	ANSI Z358-1 ISO 3864-1:2011, ISO 3864-4:2011	 Eyewash stations	DIN 12 899 ISO 3864-1:2011, ISO 3864-4:2011

Environmental exposure controls:

In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see subsection 7.1.D

40 CFR Part 59 (VOC):

V.O.C.(weight-percent):	68.71 % weight
V.O.C. at 77 °F:	678.94 kg/m ³ (678.94 g/L)

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

For complete information see the product datasheet.

Appearance:

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

5772 - PEONY LYCHEE



Date of compilation: 10/21/2022

Version: 1

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continued)

Physical state at 68 °F:	Liquid
Appearance:	Translucent
Color:	Yellowish
Odor:	Characteristic
Odour threshold:	Non-applicable *
Volatility:	
Boiling point at atmospheric pressure:	462 °F
Vapour pressure at 77 °F:	14 Pa
Vapour pressure at 122 °F:	67.08 Pa (0.07 kPa)
Evaporation rate at 77 °F:	Non-applicable *
Product description:	
Density at 77 °F:	988.1 kg/m ³
Relative density at 77 °F:	0.988
Dynamic viscosity at 77 °F:	Non-applicable *
Kinematic viscosity at 77 °F:	Non-applicable *
Kinematic viscosity at 104 °F:	Non-applicable *
Concentration:	Non-applicable *
pH:	Non-applicable *
Vapour density at 77 °F:	Non-applicable *
Partition coefficient n-octanol/water 77 °F:	Non-applicable *
Solubility in water at 77 °F:	Non-applicable *
Solubility properties:	Non-applicable *
Decomposition temperature:	Non-applicable *
Melting point/freezing point:	Non-applicable *
Flammability:	
Flash Point:	117 °F
Flammability (solid, gas):	Non-applicable *
Autoignition temperature:	230 °F
Lower flammability limit:	Not available
Upper flammability limit:	Not available
Particle characteristics:	
Median equivalent diameter:	Non-applicable

9.2 Other information:

Information with regard to physical hazard classes:

Explosive properties:	Non-applicable *
Oxidising properties:	Non-applicable *
Corrosive to metals:	Non-applicable *
Heat of combustion:	Non-applicable *
Aerosols-total percentage (by mass) of flammable components:	Non-applicable *

Other safety characteristics:

Surface tension at 77 °F:	Non-applicable *
Refraction index:	Non-applicable *

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



Date of compilation: 10/21/2022

Version: 1

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.

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

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: The consumption of a considerable dose can cause irritation in the throat, abdominal pain, nausea and vomiting.

B- Inhalation (acute effect):

- Acute toxicity : Based on available data, the classification criteria are not met, as it does not contain 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: Produces skin inflammation.
- Contact with the eyes: Produces serious eye damage after contact.

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: Indole (2B); Benzyl acetate (3)
- 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: Suspected of damaging fertility or the unborn child

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:

5772 - PEONY LYCHEE



Date of compilation: 10/21/2022

Version: 1

SECTION 11: TOXICOLOGICAL INFORMATION (continued)

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.

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, as it does not contain substances classified as hazardous for this effect. 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:

Non-applicable

Specific toxicology information on the substances:

Identification	Acute toxicity		Genus
	Route	Toxicity	
Linalyl acetate CAS: 115-95-7	LD50 oral	14500 mg/kg	Rat
	LD50 dermal	5610 mg/kg	Rabbit
	LC50 inhalation	Non-applicable	
Hexyl cinnam-aldehyde CAS: 101-86-0	LD50 oral	3100 mg/kg	Rat
	LD50 dermal	3000 mg/kg	Rabbit
	LC50 inhalation	Non-applicable	
2-phenylethanol CAS: 60-12-8	LD50 oral	1610 mg/kg	Rat
	LD50 dermal	2100 mg/kg	Rabbit
	LC50 inhalation	Non-applicable	
Citral CAS: 5392-40-5	LD50 oral	4950 mg/kg	Rat
	LD50 dermal	2250 mg/kg	Rabbit
	LC50 inhalation	Non-applicable	
Geraniol CAS: 106-24-1	LD50 oral	4200 mg/kg	Rat
	LD50 dermal	5100 mg/kg	Rabbit
	LC50 inhalation	Non-applicable	
Linalool CAS: 78-70-6	LD50 oral	3000 mg/kg	Rat
	LD50 dermal	5610 mg/kg	Rabbit
	LC50 inhalation	Non-applicable	
Benzyl salicylate CAS: 118-58-1	LD50 oral	2200 mg/kg	Rat
	LD50 dermal	14150 mg/kg	Rabbit
	LC50 inhalation	Non-applicable	
2-ethyl-3-hydroxy-4-pyrone CAS: 4940-11-8	LD50 oral	1200 mg/kg	Rat
	LD50 dermal	Non-applicable	
	LC50 inhalation	Non-applicable	
Vanillin CAS: 121-33-5	LD50 oral	3500 mg/kg	Rat
	LD50 dermal	Non-applicable	
	LC50 inhalation	Non-applicable	
Citronellol CAS: 106-22-9	LD50 oral	3450 mg/kg	Rat
	LD50 dermal	2650 mg/kg	
	LC50 inhalation	Non-applicable	
a-methyl-1,3-benzodioxole-5-propionaldehyde CAS: 1205-17-0	LD50 oral	3550 mg/kg	Rat
	LD50 dermal	Non-applicable	
	LC50 inhalation	Non-applicable	

5772 - PEONY LYCHEE



Date of compilation: 10/21/2022

Version: 1

SECTION 12: ECOLOGICAL INFORMATION

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

12.1 Ecotoxicity (aquatic and terrestrial, where available):

Acute toxicity:

Identification	Concentration	Species	Genus	
Benzyl salicylate CAS: 118-58-1	LC50	1.03 mg/L (96 h)	Brachydanio rerio	Fish
	EC50	1.2 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	1.3 mg/L (72 h)	Selenastrum capricornutum	Algae
2-phenylethanol CAS: 60-12-8	LC50	Non-applicable		
	EC50	330 mg/L (24 h)	Daphnia magna	Crustacean
	EC50	490 mg/L (72 h)	Scenedesmus subspicatus	Algae
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
Tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans) CAS: 63500-71-0	LC50	Non-applicable		
	EC50	320 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	Non-applicable		
Vanillin CAS: 121-33-5	LC50	57 mg/L (96 h)	Pimephales promelas	Fish
	EC50	48.1 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	120 mg/L (72 h)	Pseudokirchneriella subcapitata	Algae
Citral CAS: 5392-40-5	LC50	6.1 mg/L (24 h)	Oryzias latipes	Fish
	EC50	11 mg/L (24 h)	Daphnia magna	Crustacean
	EC50	16 mg/L (72 h)	Scenedesmus subspicatus	Algae
a-methyl-1,3-benzodioxole-5-propionaldehyde CAS: 1205-17-0	LC50	5.3 mg/L (96 h)	Oncorhynchus mykiss	Fish
	EC50	8 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	28 mg/L (72 h)	Pseudokirchneriella subcapitata	Algae

12.2 Persistence and degradability:

Identification	Degradability		Biodegradability	
Benzyl salicylate CAS: 118-58-1	BOD5	Non-applicable	Concentration	100 mg/L
	COD	Non-applicable	Period	28 days
	BOD5/COD	Non-applicable	% Biodegradable	93 %
Geraniol CAS: 106-24-1	BOD5	Non-applicable	Concentration	100 mg/L
	COD	Non-applicable	Period	21 days
	BOD5/COD	Non-applicable	% Biodegradable	70 %

5772 - PEONY LYCHEE



Date of compilation: 10/21/2022

Version: 1

SECTION 12: ECOLOGICAL INFORMATION (continued)

Identification	Degradability		Biodegradability	
2-phenylethanol CAS: 60-12-8	BOD5	Non-applicable	Concentration	100 mg/L
	COD	Non-applicable	Period	14 days
	BOD5/COD	Non-applicable	% Biodegradable	87 %
Linalyl acetate CAS: 115-95-7	BOD5	Non-applicable	Concentration	81 mg/L
	COD	Non-applicable	Period	28 days
	BOD5/COD	Non-applicable	% Biodegradable	80 %
Tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans) CAS: 63500-71-0	BOD5	Non-applicable	Concentration	10 mg/L
	COD	Non-applicable	Period	28 days
	BOD5/COD	Non-applicable	% Biodegradable	10 %
Vanillin CAS: 121-33-5	BOD5	Non-applicable	Concentration	100 mg/L
	COD	Non-applicable	Period	14 days
	BOD5/COD	Non-applicable	% Biodegradable	97 %
Citral CAS: 5392-40-5	BOD5	0.56 g O2/g	Concentration	100 mg/L
	COD	1.99 g O2/g	Period	28 days
	BOD5/COD	0.28	% Biodegradable	92 %
Linalool CAS: 78-70-6	BOD5	Non-applicable	Concentration	100 mg/L
	COD	Non-applicable	Period	28 days
	BOD5/COD	Non-applicable	% Biodegradable	90 %
a-methyl-1,3-benzodioxole-5-propionaldehyde CAS: 1205-17-0	BOD5	Non-applicable	Concentration	100 mg/L
	COD	Non-applicable	Period	28 days
	BOD5/COD	Non-applicable	% Biodegradable	65 %

12.3 Bioaccumulative potential:

Identification	Bioaccumulation potential	
Benzyl salicylate CAS: 118-58-1	BCF	311
	Pow Log	4
	Potential	High
Geraniol CAS: 106-24-1	BCF	110
	Pow Log	3.56
	Potential	High
2-phenylethanol CAS: 60-12-8	BCF	6
	Pow Log	1.36
	Potential	Low
Linalyl acetate CAS: 115-95-7	BCF	174
	Pow Log	3.9
	Potential	High



Date of compilation: 10/21/2022

Version: 1

SECTION 12: ECOLOGICAL INFORMATION (continued)

Identification	Bioaccumulation potential	
	BCF	Pow Log
Hexyl cinnam-aldehyde CAS: 101-86-0	17	
		Low
Vanillin CAS: 121-33-5	6	
	1.37	
		Low
Citral CAS: 5392-40-5	10	
	3.45	
		Low
Linalool CAS: 78-70-6		
	2.97	
a-methyl-1,3-benzodioxole-5-propionaldehyde CAS: 1205-17-0		
	2.4	

12.4 Mobility in soil:

Identification	Absorption/desorption		Volatility	
	Koc	Conclusion	Henry	Non-applicable
Benzyl salicylate CAS: 118-58-1	5600	Immobil	Dry soil	Non-applicable
		Non-applicable	Moist soil	Non-applicable
2-phenylethanol CAS: 60-12-8	Non-applicable	Non-applicable	Dry soil	Non-applicable
		3.807E-2 N/m (77 °F)	Moist soil	Non-applicable
Linalyl acetate CAS: 115-95-7	518	Low	Dry soil	Yes
		Non-applicable	Moist soil	Yes
Tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans) CAS: 63500-71-0	42	Very High	Dry soil	No
		Non-applicable	Moist soil	No
Vanillin CAS: 121-33-5	130	Very High	Dry soil	Non-applicable
		1.622E-2 N/m (559.13 °F)	Moist soil	Non-applicable

5772 - PEONY LYCHEE



Date of compilation: 10/21/2022

Version: 1

SECTION 12: ECOLOGICAL INFORMATION (continued)

Identification	Absorption/desorption		Volatility	
a-methyl-1,3-benzodioxole-5-propionaldehyde CAS: 1205-17-0	Koc	71	Henry	Non-applicable
	Conclusion	Very High	Dry soil	Non-applicable
	Surface tension	Non-applicable	Moist soil	Non-applicable

12.5 Results of PBT and vPvB assessment:

Non-applicable

12.6 Other adverse effects:

Not described

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Disposal methods:

Waste management (disposal and evaluation):

Consult the authorized waste service manager on the assessment and disposal operations. In case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-dangerous residue. Waste should not be disposed of to drains. See epigraph 6.2.

Regulations related to waste management:

Legislation related to waste management:

40 CFR Part 261- IDENTIFICATION AND LISTING OF HAZARDOUS WASTE

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:** UN1993
14.2 UN proper shipping name: FLAMMABLE LIQUID, N.O.S. (CITRUS AURANTIUM DULCIS OIL)
14.3 Transport hazard class(es): 3
 Labels: 3
14.4 Packing group, if applicable: III
14.5 Marine pollutant: Yes
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

Limited quantities: 5 L

49 CFR 173.150: A flammable liquid with a flash point at or above 38 °C (100 °F) that does not meet the definition of any other hazard class may be reclassified as a combustible liquid. This provision does not apply to transportation by vessel or aircraft, except where other means of transportation is impracticable. It can be shipped as a non-hazardous material if the container is under 120 gallons. Under 49 CFR 171.4, Except when transporting aboard a vessel, the requirements of this subchapter specific to marine pollutants do not apply to non-bulk packagings transported by motor vehicles, rail cars, and aircraft

- 14.7 Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code):** Non-applicable

Transport of dangerous goods by sea:

With regard to IMDG 40-20:

5772 - PEONY LYCHEE



Date of compilation: 10/21/2022

Version: 1

SECTION 14: TRANSPORT INFORMATION (continued)



- 14.1 UN number:** UN1993
14.2 UN proper shipping name: FLAMMABLE LIQUID, N.O.S. (CITRUS AURANTIUM DULCIS OIL)
14.3 Transport hazard class(es): 3
Labels: 3
14.4 Packing group, if applicable: III
14.5 Marine pollutant: Yes
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: 274, 223, 955
EmS Codes: F-E, S-E
Physico-Chemical properties: see section 9
Limited quantities: 5 L
Segregation group: Non-applicable
14.7 Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code): Non-applicable

Transport of dangerous goods by air:

With regard to IATA/ICAO 2022:



- 14.1 UN number:** UN1993
14.2 UN proper shipping name: FLAMMABLE LIQUID, N.O.S. (CITRUS AURANTIUM DULCIS OIL)
14.3 Transport hazard class(es): 3
Labels: 3
14.4 Packing group, if applicable: III
14.5 Marine pollutant: Yes
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): Non-applicable

SECTION 15: REGULATORY INFORMATION

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

Toxic chemical release reporting under EPCRA section 313 (40 CFR Part 372): Non-applicable
California Proposition 65 (the Safe Drinking Water and Toxic Enforcement Act of 1986) - Cancer: Non-applicable
The Toxic Substances Control Act (TSCA) : Benzyl salicylate ; Geraniol ; 2-phenylethanol ; CITRUS AURANTIUM DULCIS OIL ; 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one ; 2-ethyl-3-hydroxy-4-pyrone ; Linalyl acetate ; Hexyl cinnam-aldehyde ; Tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans) ; Vanillin ; Citral ; Linalool ; Citronellol ; a-methyl-1,3-benzodioxole-5-propionaldehyde
Massachusetts RTK - Substance List: Non-applicable
New Jersey Worker and Community Right-to-Know Act: Non-applicable
New York RTK - Substance list: Non-applicable
Pennsylvania Worker and Community Right-to-Know Law: Non-applicable
CANADA-Domestic Substances List (DSL): Benzyl salicylate ; Geraniol ; 2-phenylethanol ; CITRUS AURANTIUM DULCIS OIL ; 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one ; 2-ethyl-3-hydroxy-4-pyrone ; Linalyl acetate ; Hexyl cinnam-aldehyde ; Tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans) ; Vanillin ; Citral ; Linalool ; Citronellol ; a-methyl-1,3-benzodioxole-5-propionaldehyde ; (z)-3,4,5,6,6-pentamethylhept-3-en-2-one
CANADA-Non-Domestic Substances List (NDSL): Non-applicable
NTP (National Toxicology Program): Non-applicable
Minnesota - Hazardous substances ERTK: Non-applicable
Rhode Island - Hazardous substances RTK: Non-applicable
OSHA Specifically Regulated Substances (29 CFR 1910.1001-1096): Non-applicable
Hazardous Air Pollutants (Clean Air Act): Non-applicable
CALIFORNIA LABOR CODE - The Hazardous Substances List: Non-applicable
California Proposition 65 (the Safe Drinking Water and Toxic Enforcement Act of 1986) - Birth defects or other reproductive harm: Non-applicable
Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) - Reportable Quantities: Non-applicable

- CONTINUED ON NEXT PAGE -



Date of compilation: 10/21/2022

Version: 1

SECTION 15: REGULATORY INFORMATION (continued)

Specific provisions in terms of protecting people or the environment:

It is recommended to use the information included in this safety data sheet as data used in a risk evaluation of the local circumstances in order to establish the necessary risk prevention measures for the manipulation, use, storage and disposal 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.

H315: Causes skin irritation.

H318: Causes serious eye damage.

H361: Suspected of damaging fertility or the unborn child.

H226: Flammable liquid and vapour.

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:

Acute Tox. 4: H302 - Harmful if swallowed.

Asp. Tox. 1: H304 - May be fatal if swallowed and enters airways.

Eye Dam. 1: H318 - Causes serious eye damage.

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.

Repr. 2: H361 - Suspected of damaging fertility or the unborn child.

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.

Advice related to training:

Minimal training is recommended to prevent industrial risks for staff using this product, in order to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

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

Date of compilation: 10/21/2022

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END OF SAFETY DATA SHEET