

Safety Data Sheet

acc. to OSHA HCS

Printing date 03/11/2024

Reviewed on 03/11/2024

1 Identification

- **Product identifier**
- **Trade name:** Orchard Fragrance
- **Partnumbers:** 34-7600-20, 90-4120-20
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
 Vaportek, Inc.
 W226N6339 Village Drive
 Sussex, Wisconsin 53089
 USA
 800.237.6367
- **Information department:** Regulatory Department
- **Emergency telephone number:**
 Hours of operation: 7:00AM – 4:00 PM Mon-Fri. (CST)
 Domestic North America (262) 246-5060

2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS08 Health hazard

Toxic to Reproduction 1B H360 May damage fertility or the unborn child.

Aspiration Hazard 1 H304 May be fatal if swallowed and enters airways.



GHS07

Skin Irritation 2 H315 Causes skin irritation.

Sensitization - Skin 1 H317 May cause an allergic skin reaction.

Flammable Liquids 4 H227 Combustible liquid.

- **Label elements**
- **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms**



GHS07



GHS08

- **Signal word** Danger
- **Hazard-determining components of labeling:**
 ORANGE TERPENES
 LILIAL
 MINERAL SPIRITS
 ALDEHYDE C-16
 GERANYL ACETATE
 HELIOTROPINE
 AMYL CINNAMIC ALDEHYDE
 HEXYL CINNAMIC ALDEHYDE

(Contd. on page 2)

Safety Data Sheet

acc. to OSHA HCS

Printing date 03/11/2024

Reviewed on 03/11/2024

Trade name: Orchard Fragrance

(Contd. of page 1)

HYDROXYCITRONELLAL
TRANS 2 HEXENAL
LYRAL
METHYL CINNAMATE
TRIPLAL
CARROT SEED OIL

· **Hazard statements**

Combustible liquid.
Causes skin irritation.
May cause an allergic skin reaction.
May damage fertility or the unborn child.
May be fatal if swallowed and enters airways.

· **Precautionary statements**

Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Keep away from flames and hot surfaces. – No smoking.
Avoid breathing dust/fume/gas/mist/vapors/spray
Wash thoroughly after handling.
Contaminated work clothing must not be allowed out of the workplace.
Wear protective gloves/protective clothing/eye protection/face protection.
If swallowed: Immediately call a poison center/doctor.
Specific treatment (see on this label).
Do NOT induce vomiting.
If on skin: Wash with plenty of water.
IF exposed or concerned: Get medical advice/attention.
Take off contaminated clothing and wash it before reuse.
If skin irritation or rash occurs: Get medical advice/attention.
Wash contaminated clothing before reuse.
In case of fire: Use CO₂, powder or water spray to extinguish.
Store in a well-ventilated place. Keep cool.
Store locked up.
Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Classification system:**

· **NFPA ratings (scale 0 - 4)**



· **HMIS-ratings (scale 0 - 4)**



· **Other hazards**

· **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.
- **vPvB:** Not applicable.

* 3 Composition/information on ingredients

- **Chemical characterization: Mixtures**
- **Description:** Mixture of the substances listed below with nonhazardous additions.

(Contd. on page 3)

US

Safety Data Sheet

acc. to OSHA HCS

Printing date 03/11/2024

Reviewed on 03/11/2024

Trade name: Orchard Fragrance

(Contd. of page 2)

· Dangerous components:		
88-41-5	VERDOX Flammable Liquids 4, H227	>10-≤25%
5989-27-5	ORANGE TERPENES ⚠ Flammable Liquids 3, H226; ⚠ Aspiration Hazard 1, H304; ⚠ Skin Irritation 2, H315; Sensitization - Skin 1B, H317	>10-≤25%
64742-48-9	MINERAL SPIRITS ⚠ Aspiration Hazard 1, H304; Flammable Liquids 4, H227	>10-≤25%
77-83-8	ALDEHYDE C-16 ⚠ Sensitization - Skin 1, H317	>2.5-≤10%
140-11-4	BENZYL ACETATE	>2.5-≤10%
98-55-5	TERPINEOL ALPHA ⚠ Skin Irritation 2, H315; Eye Irritation 2A, H319; Flammable Liquids 4, H227	>2.5-<10%
6413-10-1	FRUCTONE Flammable Liquids 4, H227	≤2.5%
100-52-7	BENZALDEHYDE ⚠ Acute Toxicity - Oral 4, H302; Flammable Liquids 4, H227	≤2.5%
105-87-3	GERANYL ACETATE ⚠ Skin Irritation 2, H315; Sensitization - Skin 1, H317	≥1-≤2.5%
4940-11-8	ETHYL MALTOL ⚠ Acute Toxicity - Oral 3, H301	≤2.5%
106-27-4	AMYL BUTYRATE ⚠ Flammable Liquids 3, H226	≤2.5%
120-57-0	HELIOTROPINE ⚠ Sensitization - Skin 1, H317	≥1-≤2.5%
150-84-5	CITRONELLYL ACETATE ⚠ Skin Irritation 2, H315	≤2.5%
122-40-7	AMYL CINNAMIC ALDEHYDE ⚠ Sensitization - Skin 1, H317	≥0.1-<1%
101-86-0	HEXYL CINNAMIC ALDEHYDE ⚠ Sensitization - Skin 1, H317	≥0.1-<1%
118-58-1	benzyl salicylate ⚠ Sensitization - Skin 1B, H317	≥0.1-<1%
107-75-5	HYDROXYCITRONELLAL ⚠ Eye Irritation 2A, H319; Sensitization - Skin 1, H317	≥0.1-<1%
78-70-6	LINALOOL ⚠ Sensitization - Skin 1B, H317; Flammable Liquids 4, H227	≥0.1-<1%
6728-26-3	TRANS 2 HEXENAL ⚠ Flammable Liquids 3, H226; ⚠ Acute Toxicity - Dermal 3, H311; ⚠ Acute Toxicity - Oral 4, H302; Sensitization - Skin 1, H317	≥0.1-<1%
31906-04-4	LYRAL ⚠ Sensitization - Skin 1A, H317	≥0.1-<1%
103-26-4	METHYL CINNAMATE ⚠ Sensitization - Skin 1, H317	≥0.1-<1%
80-54-6	LILLIAL ⚠ Toxic to Reproduction 1B, H360; Flammable Liquids 4, H227	≥0.1-≤2.5%

(Contd. on page 4)

US

Safety Data Sheet

acc. to OSHA HCS

Printing date 03/11/2024

Reviewed on 03/11/2024

Trade name: Orchard Fragrance

(Contd. of page 3)

68039-49-6	TRIPLAL ⚠ Skin Irritation 2, H315; Sensitization - Skin 1, H317; Flammable Liquids 4, H227	≥0.1-<1%
8015-88-1	CARROT SEED OIL ⚠ Flammable Liquids 3, H226; ⚠ Aspiration Hazard 1, H304; ⚠ Skin Irritation 2, H315; Sensitization - Skin 1, H317	≥0.1-<1%

4 First-aid measures

- **Description of first aid measures**
- **General information:** Immediately remove any clothing soiled by the product.
- **After inhalation:**
Supply fresh air and to be sure call for a doctor.
In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:** If symptoms persist consult doctor.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**
CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** No special measures required.

* 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Not required.
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to section 13.
Ensure adequate ventilation.
- **Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.
- **Protective Action Criteria for Chemicals**

· PAC-1:		
103-23-1	DIOCTYL ADIPATE	17 mg/m ³
5989-27-5	ORANGE TERPENES	15 ppm
140-11-4	BENZYL ACETATE	30 ppm
100-52-7	BENZALDEHYDE	4 ppm
141-97-9	ETHYL ACETOACETATE	12 mg/m ³

(Contd. on page 5)

Safety Data Sheet

acc. to OSHA HCS

Printing date 03/11/2024

Reviewed on 03/11/2024

Trade name: Orchard Fragrance

(Contd. of page 4)

64-19-7	ACETIC ACID	5 ppm
91-20-3	NAPTHALENE	15 ppm
71-43-2	BENZENE	52 ppm
98-82-8	Cumene	50 ppm
100-41-4	ETHYLBENZENE	33 ppm
100-42-5	STYRENE	20 ppm
108-88-3	TOLUENE	67 ppm
110-54-3	N-HEXANE	260 ppm

· PAC-2:

103-23-1	DIOCTYL ADIPATE	180 mg/m ³
5989-27-5	ORANGE TERPENES	67 ppm
140-11-4	BENZYL ACETATE	330 ppm
100-52-7	BENZALDEHYDE	9.9 ppm
141-97-9	ETHYL ACETOACETATE	130 mg/m ³
64-19-7	ACETIC ACID	35 ppm
91-20-3	NAPTHALENE	83 ppm
71-43-2	BENZENE	800 ppm
98-82-8	Cumene	300 ppm
100-41-4	ETHYLBENZENE	1100* ppm
100-42-5	STYRENE	130 ppm
108-88-3	TOLUENE	560 ppm
110-54-3	N-HEXANE	2900* ppm

· PAC-3:

103-23-1	DIOCTYL ADIPATE	1,100 mg/m ³
5989-27-5	ORANGE TERPENES	170 ppm
140-11-4	BENZYL ACETATE	2,000 ppm
100-52-7	BENZALDEHYDE	59 ppm
141-97-9	ETHYL ACETOACETATE	790 mg/m ³
64-19-7	ACETIC ACID	250 ppm
91-20-3	NAPTHALENE	500 ppm
71-43-2	BENZENE	4000* ppm
98-82-8	Cumene	730 ppm
100-41-4	ETHYLBENZENE	1800* ppm
100-42-5	STYRENE	1100* ppm
108-88-3	TOLUENE	3700* ppm
110-54-3	N-HEXANE	8600** ppm

7 Handling and storage

· Handling:

· Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.
Open and handle receptacle with care.
Prevent formation of aerosols.

(Contd. on page 6)

Safety Data Sheet

acc. to OSHA HCS

Printing date 03/11/2024

Reviewed on 03/11/2024

Trade name: Orchard Fragrance

(Contd. of page 5)

- **Information about protection against explosions and fires:** Keep respiratory protective device available.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**
Store in a tightly sealed containers in a cool, dry place that is well ventilated. Away from heat, spark, and open flame.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep receptacle tightly sealed.
- **Specific end use(s)** No further relevant information available.

* 8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see section 7.
- **Control parameters**
- **Components with limit values that require monitoring at the workplace:**
The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.
At this time, the other constituents have no known exposure limits.

140-11-4 BENZYL ACETATE

TLV	Long-term value: 10 ppm A4
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100-52-7 BENZALDEHYDE

WEEL	Short-term value: 4 ppm Long-term value: 2 ppm DSEN
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- **Additional information:** The lists that were valid during the creation were used as basis.
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Store protective clothing separately.
Avoid contact with the skin.
Avoid contact with the eyes and skin.
- **Breathing equipment:**
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.
- **Protection of hands:**



Protective gloves

- The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
- **Material of gloves**
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

(Contd. on page 7)

Safety Data Sheet

acc. to OSHA HCS

Printing date 03/11/2024

Reviewed on 03/11/2024

Trade name: Orchard Fragrance

(Contd. of page 6)

- **Penetration time of glove material**
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:** Goggles recommended during refilling.

9 Physical and chemical properties

· Information on basic physical and chemical properties

· General Information

· Appearance:

Form:	Liquid
Color:	Colorless to pale yellow
Odor:	Characteristic
Odor threshold:	Not determined.

· **pH-value:** Not determined.

· Change in condition

Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	173 °C (343.4 °F)

· **Flash point:** 61 °C (141.8 °F)

· **Flammability (solid, gaseous):** Not applicable.

· **Auto igniting:** 240 °C (464 °F)

· **Decomposition temperature:** Not determined.

· **Ignition temperature:** Product is not selfigniting.

· **Danger of explosion:** Not determined.

· Explosion limits:

Lower:	0.3 Vol %
Upper:	7 Vol %

· **Vapor pressure at 197 °C (386.6 °F):** 2.6 hPa (2 mm Hg)

· **Density at 20 °C (68 °F):** 0.92046 g/cm³ (7.68124 lbs/gal)

· **Relative density** Not determined.

· **Vapor density** Not determined.

· **Evaporation rate** Not determined.

· Solubility in / Miscibility with

Water: Not miscible or difficult to mix.

· **Partition coefficient (n-octanol/water):** Not determined.

· Viscosity:

Dynamic:	Not determined.
Kinematic:	Not determined.

· Solvent content:

Organic solvents:	15.1 %
VOC content:	15.10 %
	139.0 g/l / 1.16 lb/gal

Solids content: 3.2 %

(Contd. on page 8)

Safety Data Sheet

acc. to OSHA HCS

Printing date 03/11/2024

Reviewed on 03/11/2024

Trade name: Orchard Fragrance

(Contd. of page 7)

· **Other information** No further relevant information available.

10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

· **Information on toxicological effects**

· **Acute toxicity:**

· **LD/LC50 values that are relevant for classification:**

64742-48-9 MINERAL SPIRITS

Dermal LD50 >3,000 mg/kg (rab)

140-11-4 BENZYL ACETATE

Dermal LD50 >5,000 mg/kg (rabbit)

78-70-6 LINALOOL

Dermal LD50 5,610 mg/kg (rabbit)

6728-26-3 TRANS 2 HEXENAL

Dermal LD50 600 mg/kg (rabbit)

· **Primary irritant effect:**

· **on the skin:** Irritant to skin and mucous membranes.

· **on the eye:** No irritating effect.

· **Sensitization:** Sensitization possible through skin contact.

· **Additional toxicological information:**

The product shows the following dangers according to internally approved calculation methods for preparations:
Irritant

· **Carcinogenic categories**

· **IARC (International Agency for Research on Cancer)**

103-23-1	DIOCTYL ADIPATE	3
5989-27-5	ORANGE TERPENES	3
140-11-4	BENZYL ACETATE	3
91-20-3	NAPHTHALENE	2B
71-43-2	BENZENE	1
98-82-8	Cumene	2B
100-41-4	ETHYLBENZENE	2B
100-42-5	STYRENE	2A
108-88-3	TOLUENE	3

(Contd. on page 9)

US

Safety Data Sheet

acc. to OSHA HCS

Printing date 03/11/2024

Reviewed on 03/11/2024

Trade name: Orchard Fragrance

(Contd. of page 8)

· **NTP (National Toxicology Program)**

91-20-3	NAPHTHALENE	R
71-43-2	BENZENE	K
98-82-8	Cumene	R
100-42-5	STYRENE	R

· **OSHA-Ca (Occupational Safety & Health Administration)**

71-43-2	BENZENE
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12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behavior in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**
Water hazard class 2 (Self-assessment): hazardous for water
Do not allow product to reach ground water, water course or sewage system.
Danger to drinking water if even small quantities leak into the ground.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packagings:**
- **Recommendation:** *Disposal must be made according to official regulations.*

14 Transport information

· UN-Number	
· DOT, ADN, IMDG, IATA	<i>not regulated</i>
· UN proper shipping name	
· DOT, ADN, IMDG, IATA	<i>not regulated</i>
· Transport hazard class(es)	
· DOT, ADN, IMDG, IATA	
· Class	<i>not regulated</i>

(Contd. on page 10)

US

Safety Data Sheet

acc. to OSHA HCS

Printing date 03/11/2024

Reviewed on 03/11/2024

Trade name: Orchard Fragrance

(Contd. of page 9)

· Packing group · DOT, IMDG, IATA	not regulated
· Environmental hazards:	Product contains environmentally hazardous substances: ORANGE TERPENES
· Marine pollutant:	Yes (DOT)
· Special precautions for user · Stowage Category	Not applicable. A
· Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable.
· Transport/Additional information:	
· DOT · Quantity limitations	On passenger aircraft/rail: No limit On cargo aircraft only: No limit
· UN "Model Regulation":	not regulated

* 15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**
· **Sara**

· **Section 355 (extremely hazardous substances):**

None of the ingredients is listed.

· **Section 313 (Specific toxic chemical listings):**

91-20-3 NAPHTHALENE

71-43-2 BENZENE

98-82-8 Cumene

100-41-4 ETHYLBENZENE

100-42-5 STYRENE

108-88-3 TOLUENE

110-54-3 N-HEXANE

· **TSCA (Toxic Substances Control Act):** All substances are active or exempt.

· **Hazardous Air Pollutants**

91-20-3 NAPHTHALENE

71-43-2 BENZENE

98-82-8 Cumene

100-41-4 ETHYLBENZENE

100-42-5 STYRENE

108-88-3 TOLUENE

110-54-3 N-HEXANE

· **Proposition 65**

· **Chemicals known to cause cancer:**

91-20-3 NAPHTHALENE

71-43-2 BENZENE

(Contd. on page 11)

US

Safety Data Sheet

acc. to OSHA HCS

Printing date 03/11/2024

Reviewed on 03/11/2024

Trade name: Orchard Fragrance

(Contd. of page 10)

98-82-8	Cumene
100-41-4	ETHYLBENZENE
100-42-5	STYRENE

· **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for males:**

71-43-2	BENZENE
110-54-3	N-HEXANE

· **Chemicals known to cause developmental toxicity:**

71-43-2	BENZENE
108-88-3	TOLUENE

· **Carcinogenic categories**

· **EPA (Environmental Protection Agency)**

103-23-1	DIOCTYL ADIPATE	C
91-20-3	NAPHTHALENE	C, CBD
71-43-2	BENZENE	A, K/L
98-82-8	Cumene	D, CBD
100-41-4	ETHYLBENZENE	D
108-88-3	TOLUENE	II
110-54-3	N-HEXANE	II

· **TLV (Threshold Limit Value)**

140-11-4	BENZYL ACETATE	A4
91-20-3	NAPHTHALENE	A4
71-43-2	BENZENE	A1
100-41-4	ETHYLBENZENE	A3
100-42-5	STYRENE	A4
108-88-3	TOLUENE	A4

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

71-43-2	BENZENE
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· **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).

· **Hazard pictograms**



GHS07 GHS08

· **Signal word** Danger

· **Hazard-determining components of labeling:**

ORANGE TERPENES

LILIAL

MINERAL SPIRITS

ALDEHYDE C-16

GERANYL ACETATE

HELIOTROPINE

AMYL CINNAMIC ALDEHYDE

(Contd. on page 12)

Safety Data Sheet

acc. to OSHA HCS

Printing date 03/11/2024

Reviewed on 03/11/2024

Trade name: Orchard Fragrance

(Contd. of page 11)

HEXYL CINNAMIC ALDEHYDE
 HYDROXYCITRONELLAL
 TRANS 2 HEXENAL
 LYRAL
 METHYL CINNAMATE
 TRIPLAL
 CARROT SEED OIL

· **Hazard statements**

Combustible liquid.
 Causes skin irritation.
 May cause an allergic skin reaction.
 May damage fertility or the unborn child.
 May be fatal if swallowed and enters airways.

· **Precautionary statements**

Obtain special instructions before use.
 Do not handle until all safety precautions have been read and understood.
 Keep away from flames and hot surfaces. – No smoking.
 Avoid breathing dust/fume/gas/mist/vapors/spray
 Wash thoroughly after handling.
 Contaminated work clothing must not be allowed out of the workplace.
 Wear protective gloves/protective clothing/eye protection/face protection.
 If swallowed: Immediately call a poison center/doctor.
 Specific treatment (see on this label).
 Do NOT induce vomiting.
 If on skin: Wash with plenty of water.
 IF exposed or concerned: Get medical advice/attention.
 Take off contaminated clothing and wash it before reuse.
 If skin irritation or rash occurs: Get medical advice/attention.
 Wash contaminated clothing before reuse.
 In case of fire: Use CO₂, powder or water spray to extinguish.
 Store in a well-ventilated place. Keep cool.
 Store locked up.
 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Department issuing SDS:** Regulatory Department

· **Date of preparation / last revision** 03/11/2024

· **Abbreviations and acronyms:**

IMDG: International Maritime Code for Dangerous Goods
 DOT: US Department of Transportation
 IATA: International Air Transport Association
 EINECS: European Inventory of Existing Commercial Chemical Substances
 ELINCS: European List of Notified Chemical Substances
 CAS: Chemical Abstracts Service (division of the American Chemical Society)
 NFPA: National Fire Protection Association (USA)
 HMIS: Hazardous Materials Identification System (USA)
 VOC: Volatile Organic Compounds (USA, EU)
 LC50: Lethal concentration, 50 percent
 LD50: Lethal dose, 50 percent
 PBT: Persistent, Bioaccumulative and Toxic
 vPvB: very Persistent and very Bioaccumulative

(Contd. on page 13)

Safety Data Sheet
acc. to OSHA HCS

Printing date 03/11/2024

Reviewed on 03/11/2024

Trade name: Orchard Fragrance

(Contd. of page 12)

*NIOSH: National Institute for Occupational Safety**OSHA: Occupational Safety & Health**TLV: Threshold Limit Value**PEL: Permissible Exposure Limit**REL: Recommended Exposure Limit**Flammable Liquids 3: Flammable liquids – Category 3**Flammable Liquids 4: Flammable liquids – Category 4**Acute Toxicity - Oral 3: Acute toxicity – Category 3**Acute Toxicity - Oral 4: Acute toxicity – Category 4**Skin Irritation 2: Skin corrosion/irritation – Category 2**Eye Irritation 2A: Serious eye damage/eye irritation – Category 2A**Sensitization - Skin 1: Skin sensitisation – Category 1**Sensitization - Skin 1A: Skin sensitisation – Category 1A**Sensitization - Skin 1B: Skin sensitisation – Category 1B**Toxic to Reproduction 1B: Reproductive toxicity – Category 1B**Aspiration Hazard 1: Aspiration hazard – Category 1**** Data compared to the previous version altered.**

US