

# Safety Data Sheet

acc. to OSHA HCS

Printing date 03/04/2024

Reviewed on 03/04/2024

## 1 Identification

- **Product identifier**
- **Trade name:** Lemon Fragrance
- **Part numbers:** 34-7600-05, 80-2310, 90-0926-05, 90-0926-05/4, 90-0953-05, 90-0953-05/5, 90-1801, 90-1803, 90-1805, 90-4120-05
- **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: 7:00 AM - 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

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:**  
CITRAL  
LEMON TERPENES  
HEXYL CINNAMIC ALDEHYDE  
HYDROXYCITRONELLAL  
GERANYL ACETATE  
CYCLAMEN ALDEHYDE  
VERTENEX  
SCENTENAL  
AMYL CINNAMIC ALDEHYDE  
CITRONELLAL

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ALDEHYDE C-12 MNA

LYRAL

TRIPLAL

**· Hazard statements**

Combustible liquid.

Causes skin irritation.

May cause an allergic skin reaction.

May be fatal if swallowed and enters airways.

**· Precautionary statements**

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.

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 CO<sub>2</sub>, 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)**

Health = 1

Fire = 2

Reactivity = 0

**· HMIS-ratings (scale 0 - 4)**

Health = 1

Fire = 2

Reactivity = 0

**· 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.**· Dangerous components:**

5392-40-5	CITRAL ⚠ Skin Irritation 2, H315; Sensitization - Skin 1, H317	>10-≤25%
68917-33-9	LEMON TERPENES ⚠ Flammable Liquids 3, H226; ⚠ Aspiration Hazard 1, H304; ⚠ Skin Irritation 2, H315; Sensitization - Skin 1, H317	>10-≤25%

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101-86-0	HEXYL CINNAMIC ALDEHYDE ⚠ Sensitization - Skin 1, H317	>2.5-≤10%
18479-58-8	2,6-Dimethyl-7-octen-2-ol ⚠ Skin Irritation 2, H315; Eye Irritation 2A, H319; Flammable Liquids 4, H227	>2.5-<10%
107-75-5	HYDROXYCITRONELLAL ⚠ Eye Irritation 2A, H319; Sensitization - Skin 1, H317	>2.5-<10%
105-87-3	GERANYL ACETATE ⚠ Skin Irritation 2, H315; Sensitization - Skin 1, H317	≥1-≤2.5%
61792-11-8	LEMONILE Flammable Liquids 4, H227	≤2.5%
103-95-7	CYCLAMEN ALDEHYDE ⚠ Skin Irritation 2, H315; Sensitization - Skin 1, H317; Flammable Liquids 4, H227	≥1-≤2.5%
88-41-5	VERDOX Flammable Liquids 4, H227	≤2.5%
98-55-5	TERPINEOL ALPHA ⚠ Skin Irritation 2, H315; Eye Irritation 2A, H319; Flammable Liquids 4, H227	≤2.5%
32210-23-4	VERTENEX ⚠ Sensitization - Skin 1, H317	≥1-≤2.5%
86803-90-9	SCENTENAL ⚠ Sensitization - Skin 1, H317	≥0.1-<1%
122-40-7	AMYL CINNAMIC ALDEHYDE ⚠ Sensitization - Skin 1, H317	≥0.1-<1%
118-58-1	benzyl salicylate ⚠ Sensitization - Skin 1B, H317	≥0.1-<1%
106-23-0	CITRONELLAL ⚠ Skin Irritation 2, H315; Eye Irritation 2A, H319; Sensitization - Skin 1, H317; Flammable Liquids 4, H227	≥0.1-<1%
78-70-6	LINALOOL ⚠ Sensitization - Skin 1B, H317; Flammable Liquids 4, H227	≥0.1-<1%
110-41-8	ALDEHYDE C-12 MNA ⚠ Skin Irritation 2, H315; Sensitization - Skin 1, H317; Flammable Liquids 4, H227	≥0.1-<1%
31906-04-4	LYRAL ⚠ Sensitization - Skin 1A, H317	≥0.1-<1%
68039-49-6	TRIPLAL ⚠ Skin Irritation 2, H315; Sensitization - Skin 1, H317; Flammable Liquids 4, H227	≥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.

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- **Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

## 5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**  
CO<sub>2</sub>, 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:

112-31-2	ALDEHYDE C-10	1.8 ppm
140-11-4	BENZYL ACETATE	30 ppm
101-84-8	DIPHENYL OXIDE	2 ppm
124-13-0	ALDEHYDE C-8	17 mg/m <sup>3</sup>

### · PAC-2:

112-31-2	ALDEHYDE C-10	19 ppm
140-11-4	BENZYL ACETATE	330 ppm
101-84-8	DIPHENYL OXIDE	16 ppm
124-13-0	ALDEHYDE C-8	190 mg/m <sup>3</sup>

### · PAC-3:

112-31-2	ALDEHYDE C-10	120 ppm
140-11-4	BENZYL ACETATE	2,000 ppm
101-84-8	DIPHENYL OXIDE	96 ppm
124-13-0	ALDEHYDE C-8	1,100 mg/m <sup>3</sup>

## 7 Handling and storage

- **Handling:**
- **Precautions for safe handling**  
Ensure good ventilation/exhaustion at the workplace.  
Prevent formation of aerosols.

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- **Information about protection against explosions and fires:** No special measures required.
- **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 constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.  
At this time, the other constituents have no known exposure limits.

### 5392-40-5 CITRAL

TLV	Long-term value: 5* ppm Skin; DSEN; *inh. fraction + vapor, A4
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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.  
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.
- **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.

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· **Eye protection:** Goggles recommended during refilling.

## 9 Physical and chemical properties

### · Information on basic physical and chemical properties

#### · General Information

#### · Appearance:

**Form:** Liquid  
**Color:** Clear yellow to yellow green

· **Odor:** Characteristic

· **Odor threshold:** Not determined.

· **pH-value:** Not determined.

#### · Change in condition

**Melting point/Melting range:** Undetermined.

**Boiling point/Boiling range:** Undetermined.

· **Flash point:** 70.6 °C (159.1 °F)

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

· **Decomposition temperature:** Not determined.

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

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

#### · Explosion limits:

**Lower:** Not determined.

**Upper:** Not determined.

· **Vapor pressure:** Not determined.

· **Density at 20 °C (68 °F):** 0.93636 g/cm<sup>3</sup> (7.81392 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:

**VOC content:** 0.00 %  
0.0 g/l / 0.00 lb/gal

**Solids content:** 0.4 %

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

## 10 Stability and reactivity

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

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- **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:**

78-70-6 LINALOOL

Dermal LD50 5,610 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)**

140-11-4 BENZYL ACETATE

3

128-37-0 BHT

3

- **NTP (National Toxicology Program)**

None of the ingredients is listed.

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

None of the ingredients is listed.

## 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.

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· **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

- |  |                 |
|--|-----------------|
| · <b>UN-Number</b>   |                 |
| · <b>DOT, ADN, IMDG, IATA</b>  | not regulated   |
| · <b>UN proper shipping name</b>   |                 |
| · <b>DOT, ADN, IMDG, IATA</b>  | not regulated   |
| · <b>Transport hazard class(es)</b>  |                 |
| · <b>DOT, ADN, IMDG, IATA</b>  |                 |
| · <b>Class</b>   | not regulated   |
| · <b>Packing group</b>   |                 |
| · <b>DOT, IMDG, IATA</b>   | not regulated   |
| · <b>Environmental hazards:</b>  | Not applicable. |
| · <b>Special precautions for user</b>  | Not applicable. |
| · <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b> | Not applicable. |
| · <b>UN "Model Regulation":</b>  | 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):**

None of the ingredients is listed.

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

101-84-8 | DIPHENYL OXIDE

· **Proposition 65**· **Chemicals known to cause cancer:**

None of the ingredients is listed.

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

None of the ingredients is listed.

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

None of the ingredients is listed.

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

None of the ingredients is listed.

· **Carcinogenic categories**

· **EPA (Environmental Protection Agency)**

None of the ingredients is listed.

· **TLV (Threshold Limit Value)**

140-11-4 BENZYL ACETATE

A4

128-37-0 BHT

A4

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

None of the ingredients is listed.

· **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:**

CITRAL

LEMON TERPENES

HEXYL CINNAMIC ALDEHYDE

HYDROXYCITRONELLAL

GERANYL ACETATE

CYCLAMEN ALDEHYDE

VERTENEX

SCENTENAL

AMYL CINNAMIC ALDEHYDE

CITRONELLAL

ALDEHYDE C-12 MNA

LYRAL

TRIPLAL

· **Hazard statements**

Combustible liquid.

Causes skin irritation.

May cause an allergic skin reaction.

May be fatal if swallowed and enters airways.

· **Precautionary statements**

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.

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*Specific treatment (see on this label).*

*Do NOT induce vomiting.*

*If on skin: Wash with plenty of water.*

*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 CO<sub>2</sub>, 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** 03/04/2024

· **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

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

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

Aspiration Hazard 1: Aspiration hazard – Category 1

· **\* Data compared to the previous version altered.**