

Safety Data Sheet

acc. to OSHA HCS

Printing date 03/29/2019

Reviewed on 03/29/2019

1 Identification

- **Product identifier**
- **Trade name:** *Summer Orange Fragrance*
- **Part number:** 90-4120-04, 90-0931-04, 34-7600-04, 34-7700-04
- **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

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



GHS05 Corrosion

Eye Dam. 1 H318 Causes serious eye damage.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction.

Flam. Liq. 4 H227 Combustible liquid.

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



GHS05



GHS07



GHS08

- **Signal word** *Danger*
- **Hazard-determining components of labeling:**
ORANGE OIL 5X
CITRONELLA OIL
CITRAL
GERANIOL

(Contd. on page 2)

US

Safety Data Sheet

acc. to OSHA HCS

Printing date 03/29/2019

Reviewed on 03/29/2019

Trade name: Summer Orange Fragrance

(Contd. of page 1)

LINALOOL
 CITRONELLOL
 HEXYL SALICYLATE
 HEXYL CINNAMIC ALDEHYDE
 SINENSAL NATURAL
 ALDEHYDE C-11 UNDECYLENIC
 VERTENEX

· **Hazard statements**

Combustible liquid.
 Causes skin irritation.
 Causes serious eye damage.
 May cause an allergic skin reaction.
 May be fatal if swallowed and enters airways.

· **Precautionary statements**

If medical advice is needed, have product container or label at hand.
 Keep out of reach of children.
 Read label before use.
 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 in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
 Continue rinsing.
 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 for extinction: CO₂, powder or water spray.
 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 = 3
 Fire = 2
 Reactivity = 0

· **HMIS-ratings (scale 0 - 4)**

HEALTH	*3
FIRE	2
REACTIVITY	0

Health = *3
 Fire = 2
 Reactivity = 0

· **Other hazards**

· **Results of PBT and vPvB assessment**

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

US

(Contd. on page 3)

Safety Data Sheet

acc. to OSHA HCS

Printing date 03/29/2019

Reviewed on 03/29/2019

Trade name: Summer Orange Fragrance

(Contd. of page 2)

3 Composition/information on ingredients

· **Chemical characterization: Mixtures**

· **Description:** Mixture of the substances listed below with nonhazardous additions.

· **Dangerous components:**

8028-48-6	ORANGE OIL 5X ⚠ Flam. Liq. 3, H226; ⚠ Asp. Tox. 1, H304; ⚠ Skin Irrit. 2, H315; Skin Sens. 1, H317	>10–≤25%
5392-40-5	CITRAL ⚠ Skin Irrit. 2, H315; Skin Sens. 1, H317	>10–≤25%
78-70-6	LINALOOL ⚠ Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1B, H317; Flam. Liq. 4, H227	>10–≤25%
134-20-3	METHYL ANTHRANILATE ⚠ Eye Irrit. 2A, H319	>2.5–<10%
112-31-2	ALDEHYDE C-10 ⚠ Eye Irrit. 2A, H319; Flam. Liq. 4, H227	>2.5–<10%
8000-29-1	CITRONELLA OIL ⚠ Asp. Tox. 1, H304; ⚠ Eye Dam. 1, H318; ⚠ Skin Irrit. 2, H315; Skin Sens. 1, H317; Flam. Liq. 4, H227	≥3–<10%
58430-94-7	VANORIS ⚠ Skin Irrit. 2, H315; Flam. Liq. 4, H227	>2.5–<10%
98-55-5	TERPINEOL ALPHA ⚠ Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Flam. Liq. 4, H227	>2.5–<10%
106-24-1	GERANIOL ⚠ Eye Dam. 1, H318; ⚠ Skin Irrit. 2, H315; Skin Sens. 1, H317	≥3–<10%
115-95-7	LINALYL ACETATE ⚠ Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Flam. Liq. 4, H227	≤2.5%
124-13-0	ALDEHYDE C-8 ⚠ Flam. Liq. 3, H226; ⚠ Skin Irrit. 2, H315; Eye Irrit. 2A, H319	≤2.5%
106-22-9	CITRONELLOL ⚠ Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317	≥1–≤2.5%
6259-76-3	HEXYL SALICYLATE ⚠ Skin Irrit. 2, H315; Skin Sens. 1, H317	≥1–≤2.5%
93-92-5	STYRALLYL ACETATE Flam. Liq. 4, H227	≤2.5%
128-37-0	BHT ⚠ Acute Tox. 4, H302	≤2.5%
61792-11-8	LEMONILE Flam. Liq. 4, H227	≤2.5%
85-91-6	DIMETHYL ANTHRANILATE Flam. Liq. 4, H227	≤2.5%
101-86-0	HEXYL CINNAMIC ALDEHYDE ⚠ Skin Sens. 1, H317	≥0.1–<1%
8028-48-6	SINENSAL NATURAL ⚠ Flam. Liq. 3, H226; ⚠ Asp. Tox. 1, H304; ⚠ Skin Irrit. 2, H315; Skin Sens. 1, H317	≥0.1–<1%

(Contd. on page 4)

Safety Data Sheet

acc. to OSHA HCS

Printing date 03/29/2019

Reviewed on 03/29/2019

Trade name: Summer Orange Fragrance

(Contd. of page 3)

112-45-8	ALDEHYDE C-11 UNDECYLENIC ⚠ Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317	≥0.1–<1%
32210-23-4	VERTENEX ⚠ Skin Sens. 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. Then consult a doctor.
- **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**
Wear protective equipment. Keep unprotected persons away.
- **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).
Use neutralizing agent.
Dispose contaminated material as waste according to item 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
124-13-0	ALDEHYDE C-8	17 mg/m ³
140-11-4	BENZYL ACETATE	30 ppm

(Contd. on page 5)

Safety Data Sheet

acc. to OSHA HCS

Printing date 03/29/2019

Reviewed on 03/29/2019

Trade name: Summer Orange Fragrance

(Contd. of page 4)

· PAC-2:		
112-31-2	ALDEHYDE C-10	19 ppm
124-13-0	ALDEHYDE C-8	190 mg/m ³
140-11-4	BENZYL ACETATE	330 ppm
· PAC-3:		
112-31-2	ALDEHYDE C-10	120 ppm
124-13-0	ALDEHYDE C-8	1,100 mg/m ³
140-11-4	BENZYL ACETATE	2,000 ppm

7 Handling and storage

- **Handling:**
- **Precautions for safe handling**
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
- **Information about protection against explosions and fires:** Keep ignition sources away - Do not smoke.
- **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 item 7.
- **Control parameters**

· Components with limit values that require monitoring at the workplace:	
5392-40-5 CITRAL	
TLV	Long-term value: 32* mg/m ³ , 5* ppm Skin; DSEN; *inhalable fraction + vapor
128-37-0 BHT	
REL	Long-term value: 10 mg/m ³
TLV	Long-term value: 2* mg/m ³ *as inhalable fraction and vapor

- **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.

(Contd. on page 6)

Safety Data Sheet

acc. to OSHA HCS

Printing date 03/29/2019

Reviewed on 03/29/2019

Trade name: Summer Orange Fragrance

(Contd. of page 5)

· **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.

· **Eye protection:**

Safety glasses



Tightly sealed goggles

9 Physical and chemical properties

· **Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

· Form:	Liquid
· Color:	Dark orange color
· Odor:	Characteristic
· Odor threshold:	Not determined.

· **pH-value:** Not determined.

· **Change in condition**

· Melting point/Melting range:	Undetermined.
· Boiling point/Boiling range:	36 °C (96.8 °F)

· **Flash point:** 71.1 °C (160 °F)

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

· **Ignition temperature:** 200 °C (392 °F)

· **Decomposition temperature:** Not determined.

· **Auto igniting:** Product is not selfigniting.

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

(Contd. on page 7)

Safety Data Sheet

acc. to OSHA HCS

Printing date 03/29/2019

Reviewed on 03/29/2019

Trade name: Summer Orange Fragrance

(Contd. of page 6)

· Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
· Vapor pressure: Not determined.	
· Density at 20 °C (68 °F): 0.90576 g/cm ³ (7.55857 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: 9.3 %	
· 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:**

ATE (Acute Toxicity Estimate)

Oral	LD50	6,799 mg/kg (rat)
Dermal	LD50	147,222 mg/kg (rabbit)

5392-40-5 CITRAL

Oral	LD50	4,960 mg/kg (rat)
------	------	-------------------

78-70-6 LINALOOL

Oral	LD50	2,790 mg/kg (rat)
Dermal	LD50	5,610 mg/kg (rabbit)

(Contd. on page 8)

Safety Data Sheet

acc. to OSHA HCS

Printing date 03/29/2019

Reviewed on 03/29/2019

Trade name: Summer Orange Fragrance

(Contd. of page 7)

134-20-3 METHYL ANTHRANILATE		
Oral	LD50	2,910 mg/kg (rat)
Dermal	LD50	>5,000 mg/kg (rabbit)
112-31-2 ALDEHYDE C-10		
Oral	LD50	3,730 mg/kg (rat)
Dermal	LD50	5,040 mg/kg (rabbit)
98-55-5 TERPINEOL ALPHA		
Oral	LD50	4,300 mg/kg (rat)
124-13-0 ALDEHYDE C-8		
Oral	LD50	5,630 mg/kg (rat)
Dermal	LD50	6,350 mg/kg (rabbit)
106-22-9 CITRONELLOL		
Oral	LD50	3,450 mg/kg (rat)
Dermal	LD50	2,650 mg/kg (rabbit)
128-37-0 BHT		
Oral	LD50	890 mg/kg (rat)
32210-23-4 VERTENEX		
Oral	LD50	5,000 mg/kg (rat)

· **Primary irritant effect:**

- **on the skin:** Irritant to skin and mucous membranes.
- **on the eye:** Strong irritant with the danger of severe eye injury.
- **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)		
128-37-0	BHT	3
140-11-4	BENZYL ACETATE	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.

(Contd. on page 9)

Safety Data Sheet

acc. to OSHA HCS

Printing date 03/29/2019

Reviewed on 03/29/2019

Trade name: Summer Orange Fragrance

(Contd. of page 8)

- **Additional ecological information:**
- **General notes:**
Water hazard class 3 (Self-assessment): extremely hazardous for water
Do not allow product to reach ground water, water course or sewage system, even in small quantities.
Must not reach bodies of water or drainage ditch undiluted or unneutralized.
Danger to drinking water if even extremely 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** *not regulated*
- **UN proper shipping name**
- **DOT, ADN, IMDG, IATA** *not regulated*
- **Transport hazard class(es)**
- **DOT, ADN, IMDG, IATA**
- **Class** *not regulated*
- **Packing group**
- **DOT, IMDG, IATA** *not regulated*
- **Environmental hazards:** *Not applicable.*
- **Special precautions for user** *Not applicable.*
- **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** *Not applicable.*
- **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):**
None of the ingredients is listed.

(Contd. on page 10)

Safety Data Sheet

acc. to OSHA HCS

Printing date 03/29/2019

Reviewed on 03/29/2019

Trade name: Summer Orange Fragrance

(Contd. of page 9)

· **TSCA (Toxic Substances Control Act):**

All ingredients are listed.

· **TSCA new (21st Century Act) (Substances not listed)**

8028-48-6 ORANGE OIL 5X

85-91-6 DIMETHYL ANTHRANILATE

8028-48-6 SINENSAL NATURAL

· **Proposition 65**

· **Chemicals known to cause cancer:**

None of the ingredients is listed.

· **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 established by ACGIH)**

128-37-0 BHT

A4

140-11-4 BENZYL ACETATE

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**



GHS05

GHS07

GHS08

· **Signal word** *Danger*

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

ORANGE OIL 5X

CITRONELLA OIL

CITRAL

GERANIOL

LINALOOL

CITRONELLOL

HEXYL SALICYLATE

HEXYL CINNAMIC ALDEHYDE

SINENSAL NATURAL

ALDEHYDE C-11 UNDECYLENIC

VERTENEX

· **Hazard statements**

Combustible liquid.

(Contd. on page 11)

Safety Data Sheet

acc. to OSHA HCS

Printing date 03/29/2019

Reviewed on 03/29/2019

Trade name: Summer Orange Fragrance

(Contd. of page 10)

Causes skin irritation.

Causes serious eye damage.

May cause an allergic skin reaction.

May be fatal if swallowed and enters airways.

· Precautionary statements

If medical advice is needed, have product container or label at hand.

Keep out of reach of children.

Read label before use.

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 in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

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 for extinction: CO₂, powder or water spray.

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 03/29/2019 / -

· Abbreviations and acronyms:

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

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

Flam. Liq. 3: Flammable liquids – Category 3

Flam. Liq. 4: Flammable liquids – Category 4

(Contd. on page 12)

Safety Data Sheet
acc. to OSHA HCS

Printing date 03/29/2019

Reviewed on 03/29/2019

Trade name: Summer Orange Fragrance

(Contd. of page 11)

Acute Tox. 4: Acute toxicity – Category 4
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A
Skin Sens. 1: Skin sensitisation – Category 1
Skin Sens. 1B: Skin sensitisation – Category 1B
Asp. Tox. 1: Aspiration hazard – Category 1
· *** Data compared to the previous version altered.**

US