

Safety Data Sheet
acc. to OSHA HCS

Printing date 10/03/2020

Reviewed on 06/13/2019

1 Identification

- **Product identifier**
- **Trade name:** VECTAIR VIBE - CITRUS MANGO FRAGRANCE
- **Article number:** VIBE-YELLOW
- **Application of the substance / the mixture** Air Freshener
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
Vectair Systems Inc.
PO Box 11068
Memphis, TN 38134 United States
info@vectairsystems.com
- **Information department:** Product safety department.
- **Emergency telephone number:** +1-877-697-7276

2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS07

Skin Irrit. 2 H315 Causes skin irritation.
Eye Irrit. 2A H319 Causes serious eye 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**



GHS07

- **Signal word** Warning
- **Hazard-determining components of labeling:**
Citral
Geraniol
Linalool
Citronellol
Benzyl salicylate
2-Methyl-3-(p-isopropylphenyl)propionaldehyde
- **Hazard statements**
Combustible liquid.
Causes skin irritation.
Causes serious eye irritation.

(Contd. on page 2)

Safety Data Sheet

acc. to OSHA HCS

Printing date 10/03/2020

Reviewed on 06/13/2019

Trade name: VECTAIR VIBE - CITRUS MANGO FRAGRANCE

(Contd. of page 1)

May cause an allergic skin reaction.

· **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 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.

Specific treatment (see on this label).

If eye irritation persists: 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.

Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Classification system:**

· **NFPA ratings (scale 0 - 4)**



Health = 2

Fire = 2

Reactivity = 0

· **HMIS-ratings (scale 0 - 4)**

HEALTH	*2
FIRE	2
REACTIVITY	0

Health = *2

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:**

141-97-9	ethyl acetoacetate	10-50%
76-22-2	1,7,7-Trimethylbicyclo[2.2.1]heptan-2-one	10-50%
88917-22-0	Dipropylene glycol monomethyl ether acetate	≥10-<20%
5392-40-5	Citral	≥1-≤2.5%
106-24-1	Geraniol	≥1-≤2.5%
78-70-6	Linalool	≥1-≤2.5%
106-22-9	Citronellol	≥0.1-<1%
118-58-1	Benzyl salicylate	≥0.1-<1%

(Contd. on page 3)

US

Safety Data Sheet

acc. to OSHA HCS

Printing date 10/03/2020

Reviewed on 06/13/2019

Trade name: VECTAIR VIBE - CITRUS MANGO FRAGRANCE

(Contd. of page 2)

103-95-7 2-Methyl-3-(p-isopropylphenyl)propionaldehyde

≥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. If symptoms persist, 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).
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:**

141-97-9	ethyl acetoacetate	12 mg/m ³
112-31-2	decanal	1.8 ppm

· **PAC-2:**

141-97-9	ethyl acetoacetate	130 mg/m ³
112-31-2	decanal	19 ppm

(Contd. on page 4)

Safety Data Sheet

acc. to OSHA HCS

Printing date 10/03/2020

Reviewed on 06/13/2019

Trade name: VECTAIR VIBE - CITRUS MANGO FRAGRANCE

(Contd. of page 3)

· PAC-3:		
141-97-9	ethyl acetoacetate	790 mg/m ³
112-31-2	decanal	120 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:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Store in a cool place away from heat and sources of ignition.
- **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:**
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.

76-22-2 1,7,7-Trimethylbicyclo[2.2.1]heptan-2-one	
PEL	Long-term value: 2 mg/m ³
REL	Long-term value: 2 mg/m ³
TLV	Short-term value: 19 mg/m ³ , 3 ppm Long-term value: 12 mg/m ³ , 2 ppm
5392-40-5 Citral	
TLV	Long-term value: 32* mg/m ³ , 5* ppm Skin; DSEN; *inhalable fraction + 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 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.

(Contd. on page 5)

Safety Data Sheet

acc. to OSHA HCS

Printing date 10/03/2020

Reviewed on 06/13/2019

Trade name: VECTAIR VIBE - CITRUS MANGO FRAGRANCE

(Contd. of page 4)

· **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:**



Tightly sealed goggles

9 Physical and chemical properties

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

· **General Information**

· **Appearance:**

Form:	Liquid
Color:	Colorless - Yellow
Odor:	Citrus
Odor threshold:	Not determined.

· **pH-value:** Not determined.

· **Change in condition**

Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	>100 °C (>212 °F)

· **Flash point:** 70 °C (158 °F)

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

· **Ignition temperature:** 350 °C (662 °F)

· **Decomposition temperature:** Not determined.

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

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

· **Explosion limits:**

Lower:	1 Vol %
Upper:	10.4 Vol %

· **Vapor pressure at 20 °C (68 °F):** <2 hPa (<1.5 mm Hg)

· **Density at 20 °C (68 °F):** 1.015 g/cm³ (8.47017 lbs/gal)

(Contd. on page 6)

Safety Data Sheet

acc. to OSHA HCS

Printing date 10/03/2020

Reviewed on 06/13/2019

Trade name: VECTAIR VIBE - CITRUS MANGO FRAGRANCE

(Contd. of page 5)

· 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:	44.8 %
VOC content:	83.80 %
	850.6 g/l / 7.10 lb/gal
VOC (EU)	83.80 %
· Solids content:	0.2 %
· 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:**

141-97-9 ethyl acetoacetate

Oral	LD50	3,980 mg/kg (rat)
------	------	-------------------

76-22-2 1,7,7-Trimethylbicyclo[2.2.1]heptan-2-one

Oral	LD50	>5,000 mg/kg (rat)
------	------	--------------------

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)

106-22-9 Citronellol

Oral	LD50	3,450 mg/kg (rat)
Dermal	LD50	2,650 mg/kg (rabbit)

(Contd. on page 7)

Safety Data Sheet

acc. to OSHA HCS

Printing date 10/03/2020

Reviewed on 06/13/2019

Trade name: VECTAIR VIBE - CITRUS MANGO FRAGRANCE

(Contd. of page 6)

118-58-1 Benzyl salicylate

Oral	LD50	2,227 mg/kg (rat)
------	------	-------------------

- **Primary irritant effect:**
- **on the skin:** Irritant to skin and mucous membranes.
- **on the eye:** 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)**

None of the ingredients is listed.

- **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 1 (Self-assessment): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **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**
- **Waste Disposal Recommendations:** Dispose in a safe manner in accordance with local/national regulations.
- **Additional Information:**
Empty container and removable plastic components should be recycled or placed in waste in accordance with local regulation.
- **Ecology – waste materials:**
Avoid release to the environment, waste can be hazardous due to toxicity.
Avoid release to the environment, waste can be hazardous due to toxicity.

US

(Contd. on page 8)

Safety Data Sheet

acc. to OSHA HCS

Printing date 10/03/2020

Reviewed on 06/13/2019

Trade name: VECTAIR VIBE - CITRUS MANGO FRAGRANCE

(Contd. of page 7)

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 MARPOL 73/78 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.
· TSCA (Toxic Substances Control Act):	
	All components have the value ACTIVE.
· Hazardous Air Pollutants	
	None of the ingredients is listed.
· 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.

(Contd. on page 9)

Safety Data Sheet

acc. to OSHA HCS

Printing date 10/03/2020

Reviewed on 06/13/2019

Trade name: VECTAIR VIBE - CITRUS MANGO FRAGRANCE

(Contd. of page 8)

· **TLV (Threshold Limit Value established by ACGIH)**

76-22-2	1,7,7-Trimethylbicyclo[2.2.1]heptan-2-one	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

· **Signal word** Warning

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

Citral

Geraniol

Linalool

Citronellol

Benzyl salicylate

2-Methyl-3-(p-isopropylphenyl)propionaldehyde

· **Hazard statements**

Combustible liquid.

Causes skin irritation.

Causes serious eye irritation.

May cause an allergic skin reaction.

· **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 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.

Specific treatment (see on this label).

If eye irritation persists: 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.

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:** Product safety department.

· **Date of preparation / last revision** 10/03/2020 / -

· **Abbreviations and acronyms:**

IMDG: International Maritime Code for Dangerous Goods

(Contd. on page 10)

Safety Data Sheet
acc. to OSHA HCS

Printing date 10/03/2020

Reviewed on 06/13/2019

Trade name: VECTAIR VIBE - CITRUS MANGO FRAGRANCE

(Contd. of page 9)

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. 4: Flammable liquids – Category 4
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A
Skin Sens. 1: Skin sensitisation – Category 1

US