

Safety Data Sheet

acc. to OSHA HCS

Printing date 02/25/2019

Reviewed on 02/25/2019

1 Identification

- **Product identifier**
- **Trade name:** Meadow Fragrance
- **Part number:** 90-4120-75, 90-0931-75, 34-7600-75, 34-7700-75
- **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

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



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.

- **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:**
 GERANIOL
 PHENYL ETHYL ACETATE
 HEXYL CINNAMIC ALDEHYDE
 CITRONELLOL
 GERANYL ACETATE

(Contd. on page 2)

Safety Data Sheet

acc. to OSHA HCS

Printing date 02/25/2019

Reviewed on 02/25/2019

Trade name: Meadow Fragrance

(Contd. of page 1)

METHYL IONONE GAMMA
LIME OIL DISTILLED
ANETHOLE
BASIL OIL
ISOCYCLOCITRAL
TRIPLAL

· **Hazard statements**

Causes skin irritation.
Causes serious eye damage.
May cause an allergic skin reaction.
Suspected of damaging fertility or the unborn child.

· **Precautionary statements**

If medical advice is needed, have product container or label at hand.
Keep out of reach of children.
Read label before use.
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
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.
Immediately call a poison center/doctor.
IF exposed or concerned: Get medical advice/attention.
Specific treatment (see on this label).
Take off contaminated clothing and wash it before reuse.
If skin irritation or rash occurs: Get medical advice/attention.
Wash contaminated clothing before reuse.
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 = 1
Reactivity = 0

· **HMIS-ratings (scale 0 - 4)**

HEALTH	*3
FIRE	1
REACTIVITY	0

Health = *3
Fire = 1
Reactivity = 0

· **Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.
· **vPvB:** Not applicable.

(Contd. on page 3)

Safety Data Sheet

acc. to OSHA HCS

Printing date 02/25/2019

Reviewed on 02/25/2019

Trade name: Meadow 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:**

140-11-4	BENZYL ACETATE	>10–≤25%
106-24-1	GERANIOL ⚠ Eye Dam. 1, H318; ⚠ Skin Irrit. 2, H315; Skin Sens. 1, H317	≥3–<10%
101-86-0	HEXYL CINNAMIC ALDEHYDE ⚠ Skin Sens. 1, H317	>2.5–≤10%
106-22-9	CITRONELLOL ⚠ Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317	>2.5–<10%
78-69-3	TETRAHYDROLINALOOL ⚠ Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Flam. Liq. 4, H227	>2.5–<10%
60-12-8	PHENYL ETHYL ALCOHOL ⚠ Acute Tox. 3, H311; ⚠ Acute Tox. 4, H302; Eye Irrit. 2A, H319	>2.5–<10%
88-41-5	VERDOX Flam. Liq. 4, H227	>2.5–≤10%
103-45-7	PHENYL ETHYL ACETATE ⚠ Eye Dam. 1, H318	≥3–≤10%
105-87-3	GERANYL ACETATE ⚠ Skin Irrit. 2, H315; Skin Sens. 1, H317	>2.5–<10%
127-51-5	METHYL IONONE GAMMA ⚠ Skin Irrit. 2, H315; Skin Sens. 1, H317; Eye Irrit. 2B, H320	>2.5–<10%
98-55-5	TERPINEOL ALPHA ⚠ Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Flam. Liq. 4, H227	>2.5–<10%
18479-58-8	DIHYDROMYRCENOL ⚠ Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Flam. Liq. 4, H227	>2.5–<10%
8008-26-2	LIME OIL DISTILLED ⚠ Flam. Liq. 3, H226; ⚠ Asp. Tox. 1, H304; ⚠ Skin Irrit. 2, H315; Skin Sens. 1, H317	>2.5–<10%
100-51-6	BENZYL ALCOHOL ⚠ Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332	≤2.5%
4180-23-8	ANETHOLE ⚠ Skin Sens. 1, H317	≥1–≤2.5%
8015-73-4	BASIL OIL ⚠ Asp. Tox. 1, H304; ⚠ Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317; Flam. Liq. 4, H227	≥1–≤2.5%
1191-16-8	PRENYL ACETATE ⚠ Flam. Liq. 3, H226	≤2.5%
6413-10-1	FRUCTONE Flam. Liq. 4, H227	≤2.5%
58430-94-7	VANORIS ⚠ Skin Irrit. 2, H315; Flam. Liq. 4, H227	≤2.5%
123-68-2	ALLYL CAPROATE ⚠ Flam. Liq. 2, H225; ⚠ Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331	≤2.5%

(Contd. on page 4)

Safety Data Sheet

acc. to OSHA HCS

Printing date 02/25/2019

Reviewed on 02/25/2019

Trade name: Meadow Fragrance

(Contd. of page 3)

1423-46-7	ISOCYCLOCITRAL ⚠ Eye Irrit. 2A, H319; Skin Sens. 1, H317; Flam. Liq. 4, H227	≥1–≤2.5%
68039-49-6	TRIPLAL ⚠ Skin Irrit. 2, H315; Skin Sens. 1, H317; Flam. Liq. 4, H227	≥1–≤2.5%
128-37-0	BHT ⚠ Acute Tox. 4, H302	≤2.5%
16409-43-1	ROSE OXIDE ⚠ Repr. 2, H361; ⚠ Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Flam. Liq. 4, H227	≥0.1–≤2.5%

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.

(Contd. on page 5)

US

Safety Data Sheet

acc. to OSHA HCS

Printing date 02/25/2019

Reviewed on 02/25/2019

Trade name: Meadow Fragrance

(Contd. of page 4)

· Protective Action Criteria for Chemicals

· PAC-1:

140-11-4	BENZYL ACETATE	30 ppm
100-51-6	BENZYL ALCOHOL	30 ppm
628-63-7	PENTYL ACETATE	100 ppm

· PAC-2:

140-11-4	BENZYL ACETATE	330 ppm
100-51-6	BENZYL ALCOHOL	52 ppm
628-63-7	PENTYL ACETATE	670 ppm

· PAC-3:

140-11-4	BENZYL ACETATE	2,000 ppm
100-51-6	BENZYL ALCOHOL	740 ppm
628-63-7	PENTYL ACETATE	4000* 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.

· 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 item 7.

· Control parameters

· Components with limit values that require monitoring at the workplace:

140-11-4 BENZYL ACETATE	
TLV	Long-term value: 61 mg/m ³ , 10 ppm
100-51-6 BENZYL ALCOHOL	
WEEL	Long-term value: 10 ppm
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

(Contd. on page 6)

Safety Data Sheet

acc. to OSHA HCS

Printing date 02/25/2019

Reviewed on 02/25/2019

Trade name: Meadow Fragrance

(Contd. of page 5)

· **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.

· **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: Pale yellow

· **Odor:** Characteristic

· **Odor threshold:** Not determined.

· **pH-value:** Not determined.

· **Change in condition**

Melting point/Melting range: Undetermined.

(Contd. on page 7)

Safety Data Sheet

acc. to OSHA HCS

Printing date 02/25/2019

Reviewed on 02/25/2019

Trade name: Meadow Fragrance

(Contd. of page 6)

Boiling point/Boiling range:	110 °C (230 °F)
· Flash point:	>93.3 °C (>199.9 °F)
· Flammability (solid, gaseous):	Not applicable.
· Ignition temperature:	410 °C (770 °F)
· Decomposition temperature:	Not determined.
· Auto igniting:	Product is not selfigniting.
· Danger of explosion:	Product does not present an explosion hazard.
· Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
· Vapor pressure at 25 °C (77 °F):	1.9 hPa (1.4 mm Hg)
· Density at 20 °C (68 °F):	0.94385 g/cm ³ (7.87643 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:	2.5 %
VOC content:	2.50 %
	23.6 g/l / 0.20 lb/gal
Solids content:	2.9 %
· 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.

US

(Contd. on page 8)

Safety Data Sheet

acc. to OSHA HCS

Printing date 02/25/2019

Reviewed on 02/25/2019

Trade name: Meadow Fragrance

(Contd. of page 7)

11 Toxicological information

- Information on toxicological effects
- Acute toxicity:

· LD/LC50 values that are relevant for classification:

ATE (Acute Toxicity Estimate)

Oral	LD50	3,890 mg/kg
Dermal	LD50	7,162 mg/kg
Inhalative	LC50/4 h	183 mg/l

140-11-4 BENZYL ACETATE

Oral	LD50	2,490 mg/kg (rat)
Dermal	LD50	>5,000 mg/kg (rabbit)

106-22-9 CITRONELLOL

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

60-12-8 PHENYL ETHYL ALCOHOL

Oral	LD50	1,790 mg/kg (rat)
Dermal	LD50	790 mg/kg (rabbit)

103-45-7 PHENYL ETHYL ACETATE

Oral	LD50	3,670 mg/kg (rat)
Dermal	LD50	6,210 mg/kg (rabbit)

98-55-5 TERPINEOL ALPHA

Oral	LD50	4,300 mg/kg (rat)
------	------	-------------------

100-51-6 BENZYL ALCOHOL

Oral	LD50	1,230 mg/kg (rat)
Dermal	LD50	2,000 mg/kg (rabbit)

128-37-0 BHT

Oral	LD50	890 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)

140-11-4	BENZYL ACETATE	3
128-37-0	BHT	3

· NTP (National Toxicology Program)

None of the ingredients is listed.

(Contd. on page 9)

Safety Data Sheet

acc. to OSHA HCS

Printing date 02/25/2019

Reviewed on 02/25/2019

Trade name: Meadow Fragrance

(Contd. of page 8)

· **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.
 Must not reach bodies of water or drainage ditch undiluted or unneutralized.
 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 | 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. |

(Contd. on page 10)

Safety Data Sheet

acc. to OSHA HCS

Printing date 02/25/2019

Reviewed on 02/25/2019

Trade name: Meadow Fragrance

(Contd. of page 9)

· **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.

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

All ingredients are listed.

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

8015-73-4 BASIL OIL

1423-46-7 ISOCYCLOCITRAL

· **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)**

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**



GHS05

GHS07

GHS08

· **Signal word** Danger

(Contd. on page 11)

Safety Data Sheet

acc. to OSHA HCS

Printing date 02/25/2019

Reviewed on 02/25/2019

Trade name: Meadow Fragrance

(Contd. of page 10)

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

GERANIOL
 PHENYL ETHYL ACETATE
 HEXYL CINNAMIC ALDEHYDE
 CITRONELLOL
 GERANYL ACETATE
 METHYL IONONE GAMMA
 LIME OIL DISTILLED
 ANETHOLE
 BASIL OIL
 ISOCYCLOCITRAL
 TRIPLAL

· **Hazard statements**

Causes skin irritation.
 Causes serious eye damage.
 May cause an allergic skin reaction.
 Suspected of damaging fertility or the unborn child.

· **Precautionary statements**

If medical advice is needed, have product container or label at hand.
 Keep out of reach of children.
 Read label before use.
 Obtain special instructions before use.
 Do not handle until all safety precautions have been read and understood.
 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.
 Immediately call a poison center/doctor.
 IF exposed or concerned: Get medical advice/attention.
 Specific treatment (see on this label).
 Take off contaminated clothing and wash it before reuse.
 If skin irritation or rash occurs: Get medical advice/attention.
 Wash contaminated clothing before reuse.
 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** 02/25/2019 / -

· **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

(Contd. on page 12)

Safety Data Sheet

acc. to OSHA HCS

Printing date 02/25/2019

Reviewed on 02/25/2019

Trade name: Meadow Fragrance

(Contd. of page 11)

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. 2: Flammable liquids – Category 2
Flam. Liq. 3: Flammable liquids – Category 3
Flam. Liq. 4: Flammable liquids – Category 4
Acute Tox. 4: Acute toxicity – Category 4
Acute Tox. 3: Acute toxicity – Category 3
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
Eye Irrit. 2B: Serious eye damage/eye irritation – Category 2B
Skin Sens. 1: Skin sensitisation – Category 1
Repr. 2: Reproductive toxicity – Category 2
Asp. Tox. 1: Aspiration hazard – Category 1

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

US