

# SAFETY DATA SHEET

## GREY MORNING FRAGRANCE OIL

### 1. PRODUCT INFORMATION AND COMPANY IDENTIFICATION

Product Name: Grey Morning Fragrance Oil

Company: Natural Bulk Supplies, 318 Half Day Rd, # 348,  
Buffalo Grove, IL 60089 Phone: 847-489-7180

Emergency Contact: Infotrac: 800-535-5053(North America) +1-352-323-3500 (International)

### 2. HAZARD IDENTIFICATION

#### Classification of the substance or mixture

##### GHS US classification

Flammable liquid, Category 4 H227 Combustible liquid.

Skin corrosion/irritation, Category 2 H315 Causes skin irritation.

Serious eye damage/eye irritation, Category 2 H319 Causes serious eye irritation.

Skin sensitization, Category 1 H317 May cause an allergic skin reaction.

Reproductive toxicity, Category 2 H361 Suspected of damaging fertility or the unborn child.

Full text of H statements : see section 16

#### GHS Label elements, including precautionary statements

##### GHS US labeling

Hazard pictograms (GHS US)



Signal word (GHS US) : Warning

Hazard statements (GHS US) :

H227 - Combustible liquid

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction

H319 - Causes serious eye irritation

H361 - Suspected of damaging fertility or the unborn child

Precautionary statements (GHS US) :

P201 - Obtain special instructions before use.

P202 - Do not handle until all safety precautions have been read and understood.

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P261 - Avoid breathing dust, fume, gas, mist, vapors, spray.

P264 - Wash hands, forearms and face thoroughly after handling.

P272 - Contaminated work clothing must not be allowed out of the workplace.

P280 - Wear protective gloves.

P302+P352 - If on skin: Wash with plenty of water.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P308+P313 - If exposed or concerned: Get medical advice/attention.

P321 - Specific treatment (see supplemental first aid instruction on this label).

P333+P313 - If skin irritation or rash occurs: Get medical advice or attention.

P337+P313 - If eye irritation persists: Get medical advice or attention.

P362+P364 - Take off contaminated clothing and wash it before reuse.

P370+P378 - In case of fire: Use appropriate media to extinguish.

P403 - Store in a well-ventilated place.

P405 - Store locked up.

P501 - Dispose of contents and/or container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulations.

**Other hazards which do not result in classification**

No additional information available

**Unknown acute toxicity (GHS US)**

Not applicable

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

**Substances**

Not applicable

**Mixtures**

Name	Product identifier	%	GHS US classification
4-tert-butylcyclohexyl acetate	(CAS-No.) 32210-23-4	5 – 10	Skin Sens. 1B, H317

3,7,11-trimethyl-1,6,10-dodecatrien-3-ol	(CAS-No.) 7212-44-4	5 – 10	Eye Irrit. 2B, H320 Skin Sens. 1B, H317
EUGENOL	(CAS-No.) 97-53-0	5 – 10	Eye Irrit. 2A, H319 Skin Sens. 1B, H317
LINALYL ACETATE	(CAS-No.) 115-95-7	5 – 10	Flam. Liq. 4, H227 Skin Irrit. 2, H315 Eye Irrit. 2B, H320 Skin Sens. 1B, H317
BENZYL BENZOATE	(CAS-No.) 120-51-4	1 – 5	Acute Tox. 4 (Oral), H302
VANILLIN	(CAS-No.) 121-33-5	1 – 5	Eye Irrit. 2A, H319
EUGENOL	(CAS-No.) 97-53-0	1 – 5	Eye Irrit. 2A, H319 Skin Sens. 1B, H317
CEDRENE	(CAS-No.) 11028-42-5	1 – 5	Skin Irrit. 2, H315 Asp. Tox. 1, H304
BENZYL ALCOHOL	(CAS-No.) 100-51-6	1 – 5	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation:dust,mist), H332 Eye Irrit. 2A, H319
2,2,7,7-TETRA METHYL TRICYCLO [6.2.1.0 <sup>1,6</sup> ] UNDECAN-5-ONE	(CAS-No.) 23787-90-8	1 – 5	Skin Sens. 1B, H317
alpha-Cedrene	(CAS-No.) 469-61-4	1 – 5	Skin Irrit. 2, H315 Asp. Tox. 1, H304
LIMONENE	(CAS-No.) 5989-27-5	1 – 5	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1B, H317 Asp. Tox. 1, H304
LINALOOL	(CAS-No.) 78-70-6	1 – 5	Flam. Liq. 4, H227 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Skin Sens. 1B, H317
ALPHA PINENE	(CAS-No.) 80-56-8	1 – 5	Flam. Liq. 3, H226 Acute Tox. 4 (Oral),

			H302 Skin Irrit. 2, H315 Skin Sens. 1B, H317 Asp. Tox. 1, H304
p-Mentha-1,4-diene	(CAS-No.) 99-85-4	0.1 – 1	Flam. Liq. 3, H226 Repr. 2, H361 Asp. Tox. 1, H304
4-Carvomenthenol	(CAS-No.) 562-74-3	0.1 – 1	Flam. Liq. 4, H227 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation), H332 Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Irrit. 2, H315 Eye Irrit. 2B, H320 Skin Sens. 1, H317 STOT SE 3, H336

Full text of hazard classes and H-statements : see section 16

#### 4. FIRST AID MEASURES

##### Description of first aid measures

First-aid measures general :

IF exposed or concerned: Get medical advice/attention.

First-aid measures after inhalation :

Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact :

Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs:  
Get medical advice/attention.

First-aid measures after eye contact :

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion :

Call a poison center/doctor/physician if you feel unwell.

##### Most important symptoms and effects (acute and delayed)

Symptoms/effects after inhalation :  
None under normal conditions..

Symptoms/effects after skin contact :  
Irritation. May cause an allergic skin reaction.

Symptoms/effects after eye contact :  
Eye irritation.

Symptoms/effects after ingestion :  
None under normal conditions.

**Immediate medical attention and special treatment, if necessary**  
Treat symptomatically.

## **5. FIRE FIGHTING MEASURES**

### **Suitable (and unsuitable) extinguishing media**

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.  
Unsuitable extinguishing media : Do not use a heavy water stream.

### **Specific hazards arising from the chemical**

Fire hazard : Combustible liquid.  
Explosion hazard : No direct explosion hazard.

### **Special protective equipment and precautions for fire-fighters**

Firefighting instructions :  
Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection.

Protection during firefighting :  
Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

## **6. ACCIDENTAL RELEASE MEASURES**

### **Personal precautions, protective equipment and emergency procedures**

General measures :  
Stop leak if safe to do so. Notify authorities if product enters sewers or public waters. Absorb spillage to prevent material-damage.

### **For non-emergency personnel**

Protective equipment :  
Wear recommended personal protective equipment.

Emergency procedures :

Ventilate spillage area. No open flames, no sparks, and no smoking. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapors/spray.

**For emergency responders**

Protective equipment :

Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

Emergency procedures :

Evacuate unnecessary personnel. Stop leak if safe to do so.

**Environmental precautions**

Avoid release to the environment.

**Methods and material for containment and cleaning up**

For containment :

Absorb spilled material with sand or earth. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Stop leak, if possible without risk.

Methods for cleaning up :

Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.

Other information :

Dispose of materials or solid residues at an authorized site.

**Reference to other sections**

For further information refer to section 13.

**7. HANDLING AND STORAGE**

**Precautions for safe handling**

Additional hazards when processed :

Not expected to present a significant hazard under anticipated conditions of normal use.

Precautions for safe handling :

Ensure good ventilation of the work station. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Wear personal protective equipment. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapors/spray.

Hygiene measures :

Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

**Conditions for safe storage, including any incompatibilities**

Technical measures :

Keep in a cool, well-ventilated place away from heat.

Storage conditions :

Store in a well-ventilated place. Keep cool. Store locked up.

Packaging materials :

Always store product in container of same material as original container.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Control parameters**

**ALPHA PINENE (80-56-8)**

Not applicable.

**BENZYL ALCOHOL (100-51-6)**

Not applicable

**BENZYL BENZOATE (120-51-4)**

Not applicable

**alpha-Cedrene (469-61-4)**

Not applicable

**CEDRENE (11028-42-5)**

Not applicable

**EUGENOL (97-53-0)**

Not applicable

**EUGENOL (97-53-0)**

Not applicable

**LIMONENE (5989-27-5)**

Not applicable

**LINALOOL (78-70-6)**

Not applicable

**p-Mentha-1,4-diene (99-85-4)**

Not applicable

**LINALYL ACETATE (115-95-7)**

Not applicable

**3,7,11-trimethyl-1,6,10-dodecatrien-3-ol (7212-44-4)**

Not applicable

**4-Carvomenthenol (562-74-3)**

Not applicable

**2,2,7,7-TETRA METHYL TRICYCLO [6.2.1.0<sup>1,6</sup>] UNDECAN-5-ONE (23787-90-8)**

Not applicable

**VANILLIN (121-33-5)**

Not applicable

**4-tert-butylcyclohexyl acetate (32210-23-4)**

Not applicable

**Appropriate engineering controls**

Appropriate engineering controls : Ensure good ventilation of the work station.

Environmental exposure controls : Avoid release to the environment.

**Individual protection measures/Personal protective equipment**

**Personal protective equipment:**

Wear recommended personal protective equipment.

**Hand protection:**

Protective gloves

**Eye protection:**

Safety glasses

**Skin and body protection:**

Wear suitable protective clothing

**Respiratory protection:**

In case of insufficient ventilation, wear suitable respiratory equipment

**Personal protective equipment symbol(s):**



## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

Physical state	Liquid
Color	No data available
Odor	No data available
Odor threshold	No data available
pH	No data available
Melting point	Not applicable
Freezing point	No data available
Boiling point	No data available
Flash point	≈ 86.9 °C
Relative evaporation rate (butyl acetate=1)	No data available
Flammability	Not applicable
Vapor pressure	No data available
Relative vapor density at 20°C	No data available
Relative density	No data available
Solubility	No data available
Partition coefficient n-octanol/water (Log Pow)	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
No data available Viscosity, kinematic	No data available
Viscosity, dynamic	No data available

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Explosion limits	No data available
Explosive properties	No data available
Oxidizing properties	No data available

**Other information**

No additional information available

**10. STABILITY AND REACTIVITY**

**Reactivity**

The product is non-reactive under normal conditions of use, storage and transport.

**Chemical stability**

Stable under normal conditions.

**Possibility of hazardous reactions**

No dangerous reactions known under normal conditions of use.

**Conditions to avoid**

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

**Incompatible materials**

No additional information available

**Hazardous decomposition products**

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

**11. TOXICOLOGICAL INFORMATION**

**Information on toxicological effects**

Acute toxicity (oral) : No data available

Acute toxicity (dermal) : No data available

Acute toxicity (inhalation) : No data available

**ALPHA PINENE (80-56-8)**

LD50 oral rat	3700 mg/kg (Rat, Male, Weight of evidence, Oral)
LD50 dermal rabbit	> 5000 mg/kg (24 h, Rabbit, Weight of evidence, Dermal)
ATE US (oral)	500 mg/kg body weight

**BENZYL ALCOHOL (100-51-6)**

LD50 oral rat	1620 mg/kg bw/day (Rat, Male, Experimental value, Oral)
LD50 dermal rabbit	> 2000 mg/kg (Rabbit, Inconclusive, insufficient data, Dermal)
LC50 Inhalation - Rat	> 4.178 mg/l air (OECD 403: Acute Inhalation Toxicity, 4 h, Rat, Male/female, Experimental value, Inhalation (aerosol))
ATE US (oral)	1620 mg/kg body weight
ATE US (dust, mist)	1.5 mg/l/4h

**BENZYL BENZOATE (120-51-4)**

LD50 oral rat	> 2000 mg/kg body weight (OECD 401: Acute Oral Toxicity, Rat, Male/female, Experimental value, Oral, 14 day(s))
LD50 dermal rabbit	> 2 ml/kg (Modification of Draize 1959 method, 4 h, Rabbit, Experimental value, Dermal)
ATE US (oral)	1160 mg/kg body weight

**EUGENOL (97-53-0)**

ATE US (oral)	2500 mg/kg body weight
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**LIMONENE (5989-27-5)**

LD50 oral rat	> 2000 mg/kg body weight (OECD 423: Acute Oral Toxicity – Acute Toxic Class Method, Rat, Female, Read-across, Oral)
LD50 dermal rabbit	> 5000 mg/kg body weight (Equivalent or similar to OECD 402, Rabbit, Weight of evidence, Dermal)

**LINALOOL (78-70-6)**

LD50 oral rat	2790 mg/kg body weight (Equivalent or similar to OECD 401, Rat, Male / female, Experimental value, Oral, 14 day(s))
LD50 dermal rabbit	5610 mg/kg body weight (Equivalent or similar to OECD 402, 24 h, Rabbit, Experimental value, Dermal, 7 day(s))
ATE US (oral)	2790 mg/kg body weight
ATE US (dermal)	5610 mg/kg body weight

**p-Mentha-1,4-diene (99-85-4)**

ATE US (oral)	3650 mg/kg body weight
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**4-Carvomenthenol (562-74-3)**

ATE US (oral)	500 mg/kg body weight
ATE US (dermal)	2500 mg/kg body weight
ATE US (gases)	4500 ppmV/4h
ATE US (vapors)	11 mg/l/4h
ATE US (dust, mist)	1.5 mg/l/4h

**VANILLIN (121-33-5)**

LD50 oral rat	3300 mg/kg body weight (Equivalent or similar to OECD 401, Rat, Male / female, Experimental value, Oral, 14 day(s))
LD50 dermal rat	> 2000 mg/kg body weight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male / female, Experimental value, Dermal, 14 day(s))
ATE US (oral)	3300 mg/kg body weight
ATE US (dermal)	2600 mg/kg body weight

**4-tert-butylcyclohexyl acetate (32210-23-4)**

ATE US (oral)	3370 mg/kg body weight
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Skin corrosion/irritation : Causes skin irritation.

Serious eye damage/irritation : Causes serious eye irritation.

Respiratory or skin sensitization : May cause an allergic skin reaction.

Germ cell mutagenicity : No data available

Carcinogenicity : No data available

**EUGENOL (97-53-0)**

IARC group 3 - Not classifiable

**EUGENOL (97-53-0)**

IARC group 3 - Not classifiable

**LIMONENE (5989-27-5)**

IARC group 3 - Not classifiable

Reproductive toxicity : Suspected of damaging fertility or the unborn child.

STOT-single exposure : No data available

**4-Carvomenthenol (562-74-3)**

STOT-single exposure May cause drowsiness or dizziness.

STOT-repeated exposure : No data available

**LINALOOL (78-70-6)**

NOAEL (dermal, rat/rabbit, 90 days) 250 mg/kg body weight Animal: rat, Guideline: OECD Guideline 411 (Subchronic Dermal Toxicity: 90-Day Study)

Aspiration hazard : No data available

Viscosity, kinematic : No data available

Symptoms/effects after inhalation : None under normal conditions.

Symptoms/effects after skin contact : Irritation. May cause an allergic skin reaction.

Symptoms/effects after eye contact : Eye irritation.

Symptoms/effects after ingestion : None under normal conditions.

**12. ECOLOGICAL INFORMATION**

**Toxicity**

Ecology - general

The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

**BENZYL ALCOHOL (100-51-6)**

LC50 - Fish [1]	460 mg/l (EPA OPP 72-1, 96 h, Pimephales promelas, Static system, Fresh water, Experimental value, Nominal concentration)
EC50 - Crustacea [1]	230 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Fresh water, Experimental value, GLP)
ErC50 algae	770 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, GLP)

**BENZYL BENZOATE (120-51-4)**

LC50 - Fish [1]	2.32 mg/l (EU Method C.1, 96 h, Danio rerio, Semi-static system, Fresh water, Experimental value, GLP)
EC50 - Crustacea [1]	3.09 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, GLP)

**LIMONENE (5989-27-5)**

LC50 - Fish [1]	720 µg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Pimephales promelas, Flow-through system, Fresh water, Experimental value, Lethal)
EC50 - Crustacea [1]	0.36 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, GLP)

**LINALOOL (78-70-6)**

LC50 - Fish [1]	27.8 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Oncorhynchus mykiss, Static system, Fresh water, Experimental value, GLP)
EC50 - Crustacea [1]	59 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, GLP)
ErC50 algae	156.7 mg/l (DIN 38412-9, 96 h, Desmodesmus subspicatus, Static system, Fresh water, Experimental value, Nominal concentration)

**LINALYL ACETATE (115-95-7)**

LC50 - Fish [1]	11 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Cyprinus carpio)
EC50 - Crustacea [1]	15 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna)

**VANILLIN (121-33-5)**

LC50 - Fish [1]	57 mg/l (Equivalent or similar to OECD 203, 96 h, Pimephales promelas, Flow-through system, Fresh water, Experimental value)
EC50 - Crustacea [1]	36.79 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, GLP)
ErC50 algae	120 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, GLP)

**Persistence and degradability**

**ALPHA PINENE (80-56-8)**

Persistence and degradability	Readily biodegradable in water.
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**BENZYL ALCOHOL (100-51-6)**

Persistence and degradability	Biodegradable in the soil. Readily biodegradable in water.
Biochemical oxygen demand (BOD)	1.6 g O <sub>2</sub> /g substance
Chemical oxygen demand (COD)	2.4 g O <sub>2</sub> /g substance
ThOD	2.5 g O <sub>2</sub> /g substance

**BENZYL BENZOATE (120-51-4)**

Persistence and degradability	Readily biodegradable in water.
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**LIMONENE (5989-27-5)**

Persistence and degradability	Readily biodegradable in water.
ThOD	3.29 g O <sub>2</sub> /g substance

**LINALOOL (78-70-6)**

Persistence and degradability	Readily biodegradable in water.
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**LINALYL ACETATE (115-95-7)**

Persistence and degradability	Readily biodegradable in water.
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**VANILLIN (121-33-5)**

Persistence and degradability	Readily biodegradable in water.
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**Bioaccumulative potential**

**ALPHA PINENE (80-56-8)**

BCF - Fish [1]	718 (Pimephales promelas, QSAR)
Partition coefficient	4.487 (Experimental value, OECD 107: Partition Coefficient)

n-octanol/water (Log Pow)	(n-octanol/water): Shake Flask Method, 25 °C)
Bioaccumulative potential	Potential for bioaccumulation ( $500 \leq \text{BCF} \leq 5000$ ).

**BENZYL ALCOHOL (100-51-6)**

Partition coefficient n-octanol/water (Log Pow)	1 – 1.1 (Experimental value, 20 °C)
Bioaccumulative potential	Low potential for bioaccumulation ( $\text{Log Kow} < 4$ ).

**BENZYL BENZOATE (120-51-4)**

BCF - Fish [1]	2.286 (BCFBFAF v3.00, Pisces, QSAR)
Partition coefficient n-octanol/water (Log Pow)	3.97 (Experimental value, 25 °C)
Bioaccumulative potential	Low potential for bioaccumulation ( $\text{Log Kow} < 4$ ).

**LIMONENE (5989-27-5)**

BCF - Fish [1]	864.8 – 1022 (Pisces, QSAR, Fresh weight)
Partition coefficient n-octanol/water (Log Pow)	4.38 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 37 °C)
Bioaccumulative potential	Potential for bioaccumulation ( $4 \geq \text{Log Kow} \leq 5$ ).

**LINALOOL (78-70-6)**

Partition coefficient n-octanol/water (Log Pow)	2.84 (Experimental value, Equivalent or similar to OECD 107, 25 °C)
Bioaccumulative potential	Low potential for bioaccumulation ( $\text{Log Kow} < 4$ ).

**LINALYL ACETATE (115-95-7)**

Partition coefficient n-octanol/water (Log Pow)	3.93 (Experimental value)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).

**VANILLIN (121-33-5)**

Partition coefficient n-octanol/water (Log Pow)	1.17 (Experimental value, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 25 °C)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).

**Mobility in soil**

**ALPHA PINENE (80-56-8)**

Ecology - soil	Low potential for adsorption in soil. May be harmful to plant growth, blooming and fruit formation.
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**BENZYL ALCOHOL (100-51-6)**

Surface tension	39 mN/m (20 °C)
Ecology - soil	No (test)data on mobility of the substance available.

**BENZYL BENZOATE (120-51-4)**

Surface tension	0.027 N/m (210 °C)
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	3.8 (log Koc, OECD 121: Estimation of the Adsorption Coefficient (Koc) on Soil and on Sewage Sludge using High Performance Liquid Chromatography (HPLC), Experimental value)
Ecology - soil	Low potential for mobility in soil.

**LIMONENE (5989-27-5)**

Ecology - soil	Adsorbs into the soil.
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**LINALOOL (78-70-6)**

Surface tension	8.3 mN/m (20 °C, ISO 9101: Surface active agents - Determination of interfacial tension)
Ecology - soil	No (test)data on mobility of the substance available.

**LINALYL ACETATE (115-95-7)**

Ecology - soil	Adsorbs into the soil.
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**VANILLIN (121-33-5)**

Organic Carbon Normalized Adsorption Coefficient (Log Koc)	3.438 (log Koc, Experimental value)
Ecology - soil	Low potential for mobility in soil.

**Other adverse effects**

No additional information available

**13. DISPOSAL CONSIDERATIONS**

**Disposal methods**

Regional waste regulation :

Disposal must be done according to official regulations.

Waste treatment methods :

Dispose of contents/container in accordance with licensed collector's sorting instructions.

Sewage disposal recommendations :

Disposal must be done according to official regulations.

Product/Packaging disposal recommendations :

Disposal must be done according to official regulations.

Additional information :

Do not re-use empty containers.

**14. TRANSPORT INFORMATION**

**Department of Transportation (DOT)**

In accordance with DOT

Not regulated

## 15. REGULATORY INFORMATION

### US Federal regulations

No additional information available

This product or mixture is not known to contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

## 16. OTHER INFORMATION

Full text of hazard classes and H-statements:

- H226 Flammable liquid and vapor
- H227 Combustible liquid
- H302 Harmful if swallowed
- H304 May be fatal if swallowed and enters airways
- H315 Causes skin irritation
- H317 May cause an allergic skin reaction
- H319 Causes serious eye irritation
- H320 Causes eye irritation
- H332 Harmful if inhaled
- H336 May cause drowsiness or dizziness
- H361 Suspected of damaging fertility or the unborn child

**All statements, technical information and recommendations contained herein are based on tests and data which Natural Bulk Supplies believes to be currently reliable, but this accuracy or completeness thereof is not guaranteed and no warranty of any kind is made with respect thereto. This information is not intended as a license to operate under or a recommendation to practice or infringe any patent of this company or others covering any process, composition of matter or use. Since we shall have no control of the use of the product described here in, we assume no Liability for loss or damage incurred from the proper or improper use of such product.**