

## SECTION 1: Identification

### 1.1. Identification

Product form : Mixture  
Product name : PEANUT BUTTER BREATH SOLVENT FREE TERPENE FLAVOR  
Product code : TPBL162

### 1.2. Recommended use and restrictions on use

### 1.3. Supplier

EXTRACT CONSULTANTS, LLC.  
TERPENES - FLAVORS - BASES  
PO BOX 11433, DENVER, CO 80211  
www.extractconsultants.com  
INFORMATION: 1-888-541-9089

### 1.4. Emergency telephone number

Emergency number : CHEMTREC - USA: 800-424-9300 International: +1 703-527-3887 / 1-800-424-9300  
CCN 13010

## SECTION 2: Hazard(s) identification

### 2.1. Classification of the substance or mixture

#### GHS US classification

|   |   |
|---|---|
| Flammable liquids Category 4                                  | Combustible liquid  |
| Serious eye damage/eye irritation Category 2A                 | Causes serious eye irritation                                     |
| Skin sensitization, Category 1                                | May cause an allergic skin reaction                               |
| Specific target organ toxicity (repeated exposure) Category 2 | May cause damage to organs through prolonged or repeated exposure |

### 2.2. GHS Label elements, including precautionary statements

#### GHS US labeling

Hazard pictograms (GHS US) :



GHS07

GHS08

Signal word (GHS US) :

Warning

Hazard statements (GHS US) :

Combustible liquid  
May cause an allergic skin reaction  
Causes serious eye irritation  
May cause damage to organs through prolonged or repeated exposure

Precautionary statements (GHS US) :

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
Do not breathe dust/fume/gas/mist/vapors/spray.  
Avoid breathing dust/fume/gas/mist/vapors/spray.  
Wash hands, forearms and face 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.  
Get medical advice/attention if you feel unwell.  
Specific treatment (see supplemental first aid instruction on this label).  
If skin irritation or rash occurs: Get medical advice/attention.  
If eye irritation persists: Get medical advice/attention.  
Wash contaminated clothing before reuse.  
In case of fire: Use media other than water to extinguish.  
Store in a well-ventilated place. Keep cool.  
Dispose of contents/container to hazardous or special waste collection point, in accordance

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with local, regional, national and/or international regulation.

### 2.3. Other hazards which do not result in classification

No additional information available

### 2.4. Unknown acute toxicity (GHS US)

Not applicable

## SECTION 3: Composition/Information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

| Name               | Product identifier   | %       | GHS US classification   |
|--------------------|----------------------|---------|---|
| VANILLIN           | (CAS-No.) 121-33-5   | 10 – 25 | Eye Irrit. 2A, H319   |
| HELIOTROPINE       | (CAS-No.) 120-57-0   | 5 – 10  | Skin Sens. 1B, H317   |
| MYRCENE            | (CAS-No.) 123-35-3   | 1 – 5   | Flam. Liq. 3, H226<br>Skin Irrit. 2, H315<br>Eye Irrit. 2A, H319<br>Asp. Tox. 1, H304                                   |
| BETA-PINENES       | (CAS-No.) 127-91-3   | 1 – 5   | Flam. Liq. 3, H226<br>Skin Irrit. 2, H315<br>Skin Sens. 1B, H317<br>Asp. Tox. 1, H304                                   |
| ISOAMYL SALICYLATE | (CAS-No.) 87-20-7    | 1 – 5   | Acute Tox. 4 (Oral), H302   |
| ETHYL BUTYRATE     | (CAS-No.) 105-54-4   | 1 – 5   | Flam. Liq. 3, H226<br>Eye Irrit. 2A, H319   |
| ACETOIN            | (CAS-No.) 513-86-0   | 1 – 5   | Flam. Liq. 3, H226<br>STOT RE 2, H373   |
| MALTOL             | (CAS-No.) 118-71-8   | 1 – 5   | Acute Tox. 4 (Oral), H302   |
| BETA CARYOPHYLLENE | (CAS-No.) 87-44-5    | 1 – 5   | Skin Sens. 1B, H317<br>Asp. Tox. 1, H304  |
| delta-3-Carene     | (CAS-No.) 13466-78-9 | 1 – 5   | Flam. Liq. 3, H226<br>Acute Tox. 4 (Inhalation), H332<br>Skin Irrit. 2, H315<br>Skin Sens. 1, H317<br>Asp. Tox. 1, H304 |

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

## SECTION 4: First-aid measures

### 4.1. Description of first aid measures

- First-aid measures general : Get medical advice/attention if you feel unwell.
- 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.

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

- Symptoms/effects after skin contact : May cause an allergic skin reaction.
- Symptoms/effects after eye contact : Eye irritation.

### 4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

## SECTION 5: Fire-fighting measures

### 5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

### 5.2. Specific hazards arising from the chemical

- Fire hazard : Combustible liquid.
- Reactivity : The product is non-reactive under normal conditions of use, storage and transport.

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### 5.3. Special protective equipment and precautions for fire-fighters

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

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. No open flames, no sparks, and no smoking. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid contact with skin and eyes.

#### 6.1.2. 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".

### 6.2. Environmental precautions

Avoid release to the environment.

### 6.3. Methods and material for containment and cleaning up

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.

### 6.4. Reference to other sections

For further information refer to section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

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. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid contact with skin and eyes.

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

### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep cool.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

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No additional information available

#### MALTOL (118-71-8)

No additional information available

#### ACETOIN (513-86-0)

No additional information available

#### BETA-PINENES (127-91-3)

##### USA - ACGIH - Occupational Exposure Limits

|                      |  |
|----------------------|--|
| Local name           | β-Pimene   |
| ACGIH OEL TWA [ppm]  | 20 ppm   |
| Remark (ACGIH)       | TLV® Basis: Lung irr. Notations: DSEN; A4 (Not classifiable as a Human Carcinogen) |
| Regulatory reference | ACGIH 2022   |

#### BETA CARYOPHYLLENE (87-44-5)

No additional information available

#### ISOAMYL SALICYLATE (87-20-7)

No additional information available

#### MYRCENE (123-35-3)

No additional information available

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|                                     |
|-------------------------------------|
| <b>VANILLIN (121-33-5)</b>          |
| No additional information available |
| <b>ETHYL BUTYRATE (105-54-4)</b>    |
| No additional information available |
| <b>delta-3-Carene (13466-78-9)</b>  |
| No additional information available |
| <b>HELIOTROPINE (120-57-0)</b>      |
| No additional information available |

### 8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.  
Environmental exposure controls : Avoid release to the environment.

### 8.3. Individual protection measures/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



## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

|   |  |
|---|--|
| Physical state                                  | : Liquid                                   |
| Color   | : AMBER TO ORANGE                          |
| Odor  | : CHARACTERISTIC, MATCHING RETAINER SAMPLE |
| 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                                     | : 68 °C                                    |
| Relative evaporation rate (butyl acetate=1)     | : No data available                        |
| Flammability (solid, gas)                       | : Not applicable.                          |
| Vapor pressure                                  | : No data available                        |
| Relative vapor density at 20°C                  | : No data available                        |
| Relative density                                | : 1.0032 (0.9932 – 1.0132)                 |
| Solubility                                      | : Insoluble.                               |
| Partition coefficient n-octanol/water (Log Pow) | : No data available                        |
| Auto-ignition temperature                       | : No data available                        |
| Decomposition temperature                       | : 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 |

### 9.2. Other information

|                  |                               |
|------------------|-------------------------------|
| Refractive index | : 1.47157 (1.46157 – 1.48157) |
|------------------|-------------------------------|

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

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

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

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

### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

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

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

|                             |                  |
|-----------------------------|------------------|
| Acute toxicity (oral)       | : Not classified |
| Acute toxicity (dermal)     | : Not classified |
| Acute toxicity (inhalation) | : Not classified |

| <b>MALTOL (118-71-8)</b>            |  |
|-------------------------------------|--|
| LD50 oral rat                       | 1440 mg/kg body weight (Equivalent or similar to OECD 401, Rat, Male, Experimental value, Oral)  |
| LD50 dermal rat                     | > 2000 mg/kg body weight Animal: rat, Animal sex: female, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)  |
| ATE US (oral)                       | 1440 mg/kg body weight   |
| <b>ACETOIN (513-86-0)</b>           |  |
| LD50 oral rat                       | > 5000 mg/kg (Rat, Oral)   |
| LD50 dermal rat                     | > 5000 mg/kg (Rat, Dermal)   |
| <b>BETA-PINENES (127-91-3)</b>      |  |
| LD50 oral rat                       | 4700 mg/kg (Rat, Oral)   |
| ATE US (oral)                       | 4700 mg/kg body weight   |
| <b>ISOAMYL SALICYLATE (87-20-7)</b> |  |
| ATE US (oral)                       | 1406 mg/kg body weight   |
| <b>MYRCENE (123-35-3)</b>           |  |
| LD50 oral rat                       | > 11390 mg/kg body weight Animal: rat  |
| LD50 dermal rabbit                  | > 5000 mg/kg body weight Animal: rabbit, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)   |
| <b>VANILLIN (121-33-5)</b>          |  |
| 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   |
| <b>ETHYL BUTYRATE (105-54-4)</b>    |  |
| LD50 oral rat                       | > 2000 mg/kg body weight Animal: rat, Animal sex: female, Guideline: OECD Guideline 423 (Acute Oral toxicity - Acute Toxic Class Method), Remarks on results: other: |

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| <b>ETHYL BUTYRATE (105-54-4)</b> |   |
|----------------------------------|---|
| LD50 dermal rat                  | > 2000 mg/kg body weight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Remarks on results: other: |
| LC50 Inhalation - Rat [ppm]      | > 4000 ppm Animal: rat, Guideline: other:, Remarks on results: other:   |

| <b>delta-3-Carene (13466-78-9)</b> |                        |
|------------------------------------|------------------------|
| ATE US (oral)                      | 4800 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            |

| <b>HELIOTROPINE (120-57-0)</b> |                        |
|--------------------------------|------------------------|
| ATE US (oral)                  | 2700 mg/kg body weight |

|                                   |  |
|-----------------------------------|--|
| Skin corrosion/irritation         | : Not classified                       |
| Serious eye damage/irritation     | : Causes serious eye irritation.       |
| Respiratory or skin sensitization | : May cause an allergic skin reaction. |
| Germ cell mutagenicity            | : Not classified                       |
| Carcinogenicity                   | : Not classified                       |

| <b>MYRCENE (123-35-3)</b> |                                      |
|---------------------------|--------------------------------------|
| IARC group                | 2B - Possibly carcinogenic to humans |

Reproductive toxicity : Not classified

STOT-single exposure : Not classified

STOT-repeated exposure : May cause damage to organs through prolonged or repeated exposure.

| <b>MALTOL (118-71-8)</b>   |  |
|----------------------------|--|
| NOAEL (oral, rat, 90 days) | 500 mg/kg body weight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents) |

| <b>ACETOIN (513-86-0)</b> |  |
|---------------------------|--|
| STOT-repeated exposure    | May cause damage to organs through prolonged or repeated exposure. |

| <b>MYRCENE (123-35-3)</b>                        |  |
|--|--|
| LOAEL (oral, rat, 90 days)                       | 250 mg/kg body weight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)                       |
| NOAEL (subchronic, oral, animal/male, 90 days)   | 500 mg/kg body weight Animal: mouse, Animal sex: male, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)   |
| NOAEL (subchronic, oral, animal/female, 90 days) | 250 mg/kg body weight Animal: mouse, Animal sex: female, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents) |

|                                     |  |
|-------------------------------------|--|
| Aspiration hazard                   | : Not classified                       |
| Viscosity, kinematic                | : No data available                    |
| Symptoms/effects after skin contact | : May cause an allergic skin reaction. |
| Symptoms/effects after eye contact  | : Eye irritation.                      |

## SECTION 12: Ecological information

### 12.1. Toxicity

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

| <b>MALTOL (118-71-8)</b> |  |
|--------------------------|--|
| LC50 - Fish [1]          | > 100 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Danio rerio, Static system, Experimental value) |

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| <b>MALTOL (118-71-8)</b>            |  |
|-------------------------------------|--|
| EC50 - Crustacea [1]                | 27 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, Locomotor effect)         |
| ErC50 algae                         | 7.2 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, GLP)            |
| <b>BETA-PINENES (127-91-3)</b>      |  |
| LC50 - Fish [1]                     | 0.557 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Cyprinus carpio, Semi-static system, Fresh water, Weight of evidence, Other isomer)               |
| ErC50 algae                         | 0.826 mg/l (OECD 201: Alga, Growth Inhibition Test, 48 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Weight of evidence, Other isomer) |
| <b>BETA CARYOPHYLLENE (87-44-5)</b> |  |
| EC50 - Crustacea [1]                | > 0.17 mg/l Test organisms (species): Daphnia magna  |
| <b>MYRCENE (123-35-3)</b>           |  |
| EC50 - Crustacea [1]                | 1.47 mg/l Test organisms (species): Daphnia magna  |
| <b>VANILLIN (121-33-5)</b>          |  |
| 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)                   |
| LC50 - Fish [2]                     | 123 mg/l Test organisms (species): Pimephales promelas   |
| ErC50 algae                         | 120 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, GLP)            |
| LOEC (chronic)                      | 10 mg/l Test organisms (species): Daphnia magna Duration: '21 d'   |
| NOEC (chronic)                      | 5.9 mg/l Test organisms (species): Daphnia magna Duration: '21 d'  |
| <b>ETHYL BUTYRATE (105-54-4)</b>    |  |
| LC50 - Fish [1]                     | ≥ 100 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)  |
| EC50 - Crustacea [1]                | 116.6 mg/l Test organisms (species): Daphnia magna   |
| NOEC (chronic)                      | 28833 mg/l Test organisms (species): Daphnia magna Duration: '21 d'  |
| NOEC chronic fish                   | 1483 mg/l Test organisms (species): other: Duration: '28 d'  |
| <b>HELIOTROPINE (120-57-0)</b>      |  |
| LC50 - Fish [1]                     | 2.5 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Cyprinus carpio, Static system, Fresh water, Experimental value)                                    |
| EC50 - Crustacea [1]                | 52 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value)                           |
| ErC50 algae                         | 31 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value)                  |

### 12.2. Persistence and degradability

| <b>MALTOL (118-71-8)</b>       |  |
|--------------------------------|--|
| Persistence and degradability  | Readily biodegradable in water.                            |
| ThOD                           | 1.52 g O <sub>2</sub> /g substance                         |
| <b>ACETOIN (513-86-0)</b>      |  |
| Persistence and degradability  | Biodegradability in water: no data available.              |
| <b>BETA-PINENES (127-91-3)</b> |  |
| Persistence and degradability  | Readily biodegradable in water.                            |
| <b>VANILLIN (121-33-5)</b>     |  |
| Persistence and degradability  | Readily biodegradable in water.                            |
| <b>HELIOTROPINE (120-57-0)</b> |  |
| Persistence and degradability  | Biodegradable in the soil. Readily biodegradable in water. |
| ThOD                           | 1.71 g O <sub>2</sub> /g substance                         |

### 12.3. Bioaccumulative potential

| <b>MALTOL (118-71-8)</b>                        |  |
|---|--|
| Partition coefficient n-octanol/water (Log Pow) | 2.3 (Experimental value, Equivalent or similar to OECD 117, 25 °C) |

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| <b>MALTOL (118-71-8)</b>                        |   |
|---|---|
| Bioaccumulative potential                       | Low potential for bioaccumulation (Log Kow < 4).  |
| <b>ACETOIN (513-86-0)</b>                       |   |
| Bioaccumulative potential                       | No bioaccumulation data available.  |
| <b>BETA-PINENES (127-91-3)</b>                  |   |
| BCF - Fish [1]                                  | 1125 l/kg (BCFBAF v3.01, Pisces, Fresh water, QSAR, Other isomer)   |
| Partition coefficient n-octanol/water (Log Pow) | 4.425 (Similar product, Read-across, Equivalent or similar to OECD 107, 25 °C)                                |
| Bioaccumulative potential                       | Potential for bioaccumulation (4 ≤ Log Kow ≤ 5).  |
| <b>VANILLIN (121-33-5)</b>                      |   |
| 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).  |
| <b>HELIOTROPINE (120-57-0)</b>                  |   |
| Partition coefficient n-octanol/water (Log Pow) | 1.2 (Practical experience/observation, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 35 °C) |
| Bioaccumulative potential                       | Low potential for bioaccumulation (Log Kow < 4).  |

### 12.4. Mobility in soil

| <b>MALTOL (118-71-8)</b>                                   |   |
|--|---|
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | 0.668 (log Koc, SRC PCKOCWIN v2.0, Calculated value)    |
| Ecology - soil   | Highly mobile in soil.                                  |
| <b>BETA-PINENES (127-91-3)</b>                             |   |
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | 3.009 – 3.836 (log Koc, Calculated value, Other isomer) |
| Ecology - soil   | Low potential for mobility in soil.                     |
| <b>VANILLIN (121-33-5)</b>                                 |   |
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | 3.438 (log Koc, Experimental value)                     |
| Ecology - soil   | Low potential for mobility in soil.                     |
| <b>HELIOTROPINE (120-57-0)</b>                             |   |
| Ecology - soil   | No (test)data on mobility of the substance available.   |

### 12.5. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Disposal methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

## SECTION 14: Transport information

### Department of Transportation (DOT)

In accordance with DOT

Transport document description (DOT) : NA1993 Combustible liquid, n.o.s. (Myrcene, Iso Amyl Butyrate) - Regulated for Bulk only, Comb Liq, III

UN-No.(DOT) : NA1993

Proper Shipping Name (DOT) : Combustible liquid, n.o.s.  
(Myrcene, Iso Amyl Butyrate) - Regulated for Bulk only

Class (DOT) : Comb Liq - Combustible liquid

Packing group (DOT) : III - Minor Danger

DOT Packaging Non Bulk (49 CFR 173.xxx) : 203

DOT Packaging Bulk (49 CFR 173.xxx) : 241



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|  |  |
|--|--|
| DOT Symbols  | : D - Proper shipping name for domestic use only, or to and from Canada, G - Identifies PSN requiring a technical name   |
| DOT Special Provisions (49 CFR 172.102)                          | : 148 - For domestic transportation, this entry directs to § 173.66 for: a. The standards for transporting a single bulk hazardous material for blasting by cargo tank motor vehicles (CTMV); and b. The standards for CTMVs capable of transporting multiple hazardous materials for blasting in bulk and non-bulk packagings (i.e. a multipurpose bulk truck (MBT)).<br>IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672).<br>T1 - 1.5 178.274(d)(2) Normal..... 178.275(d)(2)<br>TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = $97 / 1 + a (tr - tf)$ Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling. |
| DOT Packaging Exceptions (49 CFR 173.xxx)                        | : 150  |
| DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) | : 60 L   |
| DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)     | : 220 L  |
| DOT Vessel Stowage Location                                      | : A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.  |
| Other information  | : No supplementary information available.  |

### Transportation of Dangerous Goods

Not applicable

### Transport by sea

Not regulated

### Air transport

Not regulated

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

#### MALTOL (118-71-8)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### ISOAMYL SALICYLATE (87-20-7)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

### 15.2. International regulations

#### CANADA

#### MALTOL (118-71-8)

Listed on the Canadian DSL (Domestic Substances List)

#### ACETOIN (513-86-0)

Listed on the Canadian DSL (Domestic Substances List)

#### BETA-PINENES (127-91-3)

Listed on the Canadian DSL (Domestic Substances List)

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### BETA CARYOPHYLLENE (87-44-5)

Listed on the Canadian DSL (Domestic Substances List)

### ISOAMYL SALICYLATE (87-20-7)

Listed on the Canadian DSL (Domestic Substances List)

### MYRCENE (123-35-3)

Listed on the Canadian DSL (Domestic Substances List)

### VANILLIN (121-33-5)

Listed on the Canadian DSL (Domestic Substances List)

### ETHYL BUTYRATE (105-54-4)

Listed on the Canadian DSL (Domestic Substances List)

### delta-3-Carene (13466-78-9)

Listed on the Canadian DSL (Domestic Substances List)

### HELIOTROPINE (120-57-0)

Listed on the Canadian DSL (Domestic Substances List)

### EU-Regulations

No additional information available

### National regulations

#### ACETOIN (513-86-0)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active  
Listed on INSQ (Mexican National Inventory of Chemical Substances)

#### BETA-PINENES (127-91-3)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active  
Listed on INSQ (Mexican National Inventory of Chemical Substances)

#### BETA CARYOPHYLLENE (87-44-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active

#### MYRCENE (123-35-3)

Listed on IARC (International Agency for Research on Cancer)  
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active  
Listed on INSQ (Mexican National Inventory of Chemical Substances)

#### VANILLIN (121-33-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active  
Listed on INSQ (Mexican National Inventory of Chemical Substances)

#### ETHYL BUTYRATE (105-54-4)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active  
Listed on INSQ (Mexican National Inventory of Chemical Substances)

#### delta-3-Carene (13466-78-9)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active

#### HELIOTROPINE (120-57-0)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active  
Listed on INSQ (Mexican National Inventory of Chemical Substances)

### 15.3. US State regulations

#### WARNING:

This product can expose you to methyl eugenol, which is known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

This product can expose you to myrcene, which is known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

| Component         | State or local regulations                                 |
|-------------------|--|
| ACETOIN(513-86-0) | U.S. - New Jersey - Right to Know Hazardous Substance List |

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| Component                | State or local regulations  |
|--------------------------|---|
| ETHYL BUTYRATE(105-54-4) | U.S. - Massachusetts - Right To Know List; U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - Pennsylvania - RTK (Right to Know) List |

### SECTION 16: Other information

Revision date : 03/08/2023

Full text of H-phrases:

|      |   |
|------|---|
| H226 | Flammable liquid and vapor  |
| 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                                     |
| H332 | Harmful if inhaled  |
| H373 | May cause damage to organs through prolonged or repeated exposure |

SDS US (GHS HazCom 2012)

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.*