

**Escentuals** 

# RUSTIC ESCENTUALS™ ORANGE BLOSSOM TONIC FRAGRANCE OIL

## Safety Data Sheet

according to Federal Register | Vol. 77, No. 58 | Monday, March 26, 2012 | Rules and Regulations Issue date: 04/25/2019 | Revision date: 07/07/2023 | Supersedes: 09/06/2022

Version: 4.1

#### **SECTION 1: Identification**

#### Identification 1.1.

 Mixture Product form

Product name RUSTIC ESCENTUALS™ ORANGE BLOSSOM TONIC FRAGRANCE OIL

CAS-No. MIXTURE

#### Recommended use and restrictions on use

No additional information available

#### **Supplier**

IndiMade Brands, LLC DBA Wholesale Supplies Plus 7820 E Pleasant Valley Road Independence, OH 44131 (800) 359-0944 www.WholesaleSuppliesPlus.com

#### 1.4. **Emergency telephone number**

(800) 255-3924 Domestic USA, Canada, Puerto Rico, and US Virgin Islands **Emergency number** 

+1 813 248-0585 International

Causes skin irritation

#### SECTION 2: Hazard(s) identification

#### Classification of the substance or mixture

#### **GHS US classification**

Flammable liquids H227 Combustible liquid

Category 4 Skin corrosion/irritation H315

Category 2

Serious eye damage/eye H319 Causes serious eve irritation

irritation Category 2 Skin sensitization,

H317 May cause an allergic skin reaction Category 1

Carcinogenicity Category 2 Suspected of causing cancer H351

Reproductive toxicity H361 Suspected of damaging fertility or the unborn child

Category 2

Full text of H statements : see section 16

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

#### **GHS US labeling**

Hazard pictograms (GHS US)





Signal word (GHS US) · Warning

: H227 - Combustible liquid Hazard statements (GHS US)

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction H319 - Causes serious eve irritation H351 - Suspected of causing cancer

H361 - Suspected of damaging fertility or the unborn child

P201 - Obtain special instructions before use. Precautionary statements (GHS US)

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/protective clothing/eye protection/face protection.

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

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

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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).

P332+P313 - If skin irritation occurs: Get medical advice/attention.

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

P337+P313 - If eye irritation persists: Get medical advice/attention. P362+P364 - Take off contaminated clothing and wash it before reuse.

P363 - Wash contaminated clothing before reuse.

P370+P378 - In case of fire: Use media other than water to extinguish.

P403+P235 - Store in a well-ventilated place. Keep cool.

P405 - Store locked up.

P501 - Dispose of contents/container to hazardous or special waste collection point, in

accordance 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  |
|------------------------------|---------------------|---------|--|
| LIMONENE                     | (CAS-No.) 5989-27-5 | 10 – 30 | Flam. Liq. 3, H226<br>Skin Irrit. 2, H315<br>Skin Sens. 1, H317<br>Asp. Tox. 1, H304   |
| 2-ethyl-3-hydroxypyran-4-one | (CAS-No.) 4940-11-8 | 1 – 5   | Acute Tox. 4 (Oral), H302  |
| ETHYL VANILLIN               | (CAS-No.) 121-32-4  | 1 – 5   | Eye Irrit. 2, H319   |
| CITRAL                       | (CAS-No.) 5392-40-5 | 1 – 5   | Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>Skin Sens. 1, H317  |
| ALLYL HEPTOATE               | (CAS-No.) 142-19-8  | 1 – 5   | Flam. Liq. 4, H227<br>Acute Tox. 3 (Oral), H301<br>Acute Tox. 3 (Dermal), H311   |
| FRUCTONE                     | (CAS-No.) 6413-10-1 | 1 – 5   | Flam. Liq. 4, H227<br>Skin Corr. 1C, H314<br>Eye Dam. 1, H318  |
| Myrcene                      | (CAS-No.) 123-35-3  | 0.5 – 1 | Flam. Liq. 3, H226<br>Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>Carc. 2, H351<br>Asp. Tox. 1, H304                                    |
| P-CYMENE                     | (CAS-No.) 99-87-6   | < 0.5   | Flam. Liq. 3, H226<br>Acute Tox. 3 (Inhalation), H331<br>Acute Tox. 3 (Inhalation:dust,mist), H331<br>Repr. 2, H361<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 : 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.

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

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

Symptoms/effects after eye contact : Eye irritation.

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

Treat symptomatically.

#### **SECTION 5: Fire-fighting measures**

#### 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.

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

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**

#### 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. Avoid contact with skin

and eyes. Avoid breathing dust/fume/gas/mist/vapors/spray.

#### 6.1.2. For emergency responders

: Do not attempt to take action without suitable protective equipment. For further information Protective equipment

refer to section 8: "Exposure controls/personal protection".

#### **Environmental precautions**

Avoid release to the environment.

#### 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.

#### Reference to other sections

For further information refer to section 13.

## **SECTION 7: Handling and storage**

#### Precautions for safe handling

: Ensure good ventilation of the work station. Keep away from heat, hot surfaces, sparks, open Precautions for safe handling

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.

Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed Hygiene measures

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

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

#### **SECTION 8: Exposure controls/personal protection**

#### **Control parameters**

| FRUCTONE (6413-           | -10-1)              |  |  |
|---------------------------|---------------------|--|--|
| Not applicable            |                     |  |  |
| ALLYL HEPTOATE (142-19-8) |                     |  |  |
| Not applicable            |                     |  |  |
| CITRAL (5392-40-5)        |                     |  |  |
| ACGIH                     | Local name          | Citral                                     |  |
| ACGIH                     | ACGIH OEL TWA [ppm] | 5 ppm (IFV - Inhalable fraction and vapor) |  |

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| CITRAL (5392-40-5         |                      |   |
|---------------------------|----------------------|---|
| ACGIH                     | Remark (ACGIH)       | TLV® Basis: Body weight eff; URT irr; eye dam.<br>Notations: Skin; DSEN; A4 (Not classifiable as a<br>Human Carcinogen) |
| ACGIH                     | Regulatory reference | ACGIH 2018  |
| ETHYL MALTOL (4           | 940-11-8)            |   |
| Not applicable            |                      |   |
| ETHYL VANILLIN (121-32-4) |                      |   |
| Not applicable            |                      |   |
| Myrcene (123-35-3)        |                      |   |
| Not applicable            |                      |   |
| D-LIMONENE (5989-27-5)    |                      |   |
| Not applicable            |                      |   |
| p-Cymene (99-87-6         | )                    |   |
| Not applicable            |                      |   |

#### 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 inadequate ventilation] wear respiratory protection.

#### **SECTION 9: Physical and chemical properties**

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

Physical state : Liquid

Color : Mixture contains one or more component(s) which have the following colour(s):

Colourless light yellow Colourless to brown Colourless to light yellow On exposure to air: yellow

Colourless to light amber White White to off-white

Odor : There may be no odour warning properties, odour is subjective and inadequate to warn of

overexposure.

Mixture contains one or more component(s) which have the following odour:

Pine odour Characteristic odour Floral odour Fruity odour Aromatic odour Mild odour Strong

odour Lemon odour Sweet odour Pleasant odour Odourless

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

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Relative density : No data available Solubility : No data available Partition coefficient n-octanol/water (Log Pow) : No data available : No data available Auto-ignition temperature Decomposition temperature : No data available No data availableViscosity, kinematic : No data available Viscosity, dynamic : No data available **Explosion limits** : No data available Explosive properties : No data available Oxidizing properties : No data available

#### 9.2. Other information

No additional information available

#### **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

| ALLYL HEPTOATE (142-19-8) |   |
|---------------------------|---|
| ATE US (oral)             | 218 mg/kg body weight   |
| ATE US (dermal)           | 810 mg/kg body weight   |
| ATE US (vapors)           | 3 mg/l/4h   |
| CITRAL (5392-40-5)        |   |
| ATE US (dermal)           | 2250 mg/kg body weight  |
| ETHYL MALTOL (4940-11-8)  |   |
| LD50 oral rat             | 1150 mg/kg (Rat, Oral)  |
| LD50 dermal rabbit        | > 5000 mg/kg (Rabbit, Dermal)   |
| ATE US (oral)             | 1150 mg/kg body weight  |
| ETHYL VANILLIN (121-32-4) |   |
| LD50 oral rat             | > 3160 mg/kg body weight (OECD 401: Acute Oral Toxicity, 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)             | 3000 mg/kg body weight  |
| Myrcene (123-35-3)        |   |
| LD50 oral rat             | > 11390 mg/kg body weight Animal: rat   |

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| LD50 dermal rabbit  | > 5000 mg/kg body weight Animal: rabbit, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)  |  |
|---|---|--|
| D-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)  |  |
| p-Cymene (99-87-6)  |   |  |
| ATE US (oral)   | 4750 mg/kg body weight  |  |
| ATE US (gases)  | 700 ppmV/4h   |  |
| ATE US (vapors)   | 9.7 mg/l/4h   |  |
| ATE US (dust, mist)   | 0.5 mg/l/4h   |  |
| 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  | : Not classified  |  |
| Carcinogenicity   | : Suspected of causing cancer.  |  |
| Myrcene (123-35-3)  |   |  |
| IARC group  | 2B - Possibly carcinogenic to humans  |  |
| D-LIMONENE (5989-27-5)  |   |  |
| IARC group  | 3 - Not classifiable  |  |
|   | : Supported of damaging fortility or the unborn child   |  |
| STOT-single exposure  | Suspected of damaging fertility or the unborn child.     Not classified   |  |
| <u>'</u>  | : Not classified  |  |
| FRUCTONE (6413-10-1) NOAEL (oral,rat,90 days)   | 1000 mg/kg hody weight Animal: ret. Cuideline: OECD Cuideline 422 (Combined Reported  |  |
| NOALL (Grai, rat, 30 days)  | 1000 mg/kg body weight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)   |  |
|   |   |  |
| Myrcene (123-35-3)  |   |  |
| Myrcene (123-35-3) LOAEL (oral,rat,90 days)   | Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)  |  |
|   | Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)  250 mg/kg body weight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day  |  |
| LOAEL (oral,rat,90 days)  | Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)  250 mg/kg body weight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)  500 mg/kg body weight Animal: mouse, Animal sex: male, Guideline: OECD Guideline 408  |  |
| NOAEL (subchronic,oral,animal/male,90 days)  NOAEL (subchronic,oral,animal/female,90 days)  | Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)  250 mg/kg body weight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)  500 mg/kg body weight Animal: mouse, Animal sex: male, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)  250 mg/kg body weight Animal: mouse, Animal sex: female, Guideline: OECD Guideline 408  |  |
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| NOAEL (subchronic,oral,animal/male,90 days)  NOAEL (subchronic,oral,animal/female,90 days)  NOAEL (subchronic,oral,animal/female,90 days)  Aspiration hazard  //iscosity, kinematic  Symptoms/effects after skin contact  | Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)  250 mg/kg body weight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)  500 mg/kg body weight Animal: mouse, Animal sex: male, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)  250 mg/kg body weight Animal: mouse, Animal sex: female, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)  : Not classified : No data available : Irritation. May cause an allergic skin reaction.   |  |
| NOAEL (subchronic,oral,animal/male,90 days)  NOAEL (subchronic,oral,animal/female,90 days)  NOAEL (subchronic,oral,animal/female,90 days)  Aspiration hazard  //iscosity, kinematic  Symptoms/effects after skin contact  | Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)  250 mg/kg body weight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)  500 mg/kg body weight Animal: mouse, Animal sex: male, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)  250 mg/kg body weight Animal: mouse, Animal sex: female, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)  : Not classified  : No data available   |  |
| NOAEL (subchronic, oral, animal/male, 90 days)  NOAEL (subchronic, oral, animal/female, 90 days)  NOAEL (subchronic, oral, animal/female, 90 days)  Aspiration hazard //iscosity, kinematic  Symptoms/effects after skin contact  Symptoms/effects after eye contact  SECTION 12: Ecological information  | Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)  250 mg/kg body weight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)  500 mg/kg body weight Animal: mouse, Animal sex: male, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)  250 mg/kg body weight Animal: mouse, Animal sex: female, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)  : Not classified : No data available : Irritation. May cause an allergic skin reaction.   |  |
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| NOAEL (subchronic, oral, animal/male, 90 days)  NOAEL (subchronic, oral, animal/female, 90 days)  NOAEL (subchronic, oral, animal/female, 90 days)  Aspiration hazard  /iscosity, kinematic  Symptoms/effects after skin contact  Symptoms/effects after eye contact  SECTION 12: Ecological information  12.1. Toxicity                                | Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)  250 mg/kg body weight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)  500 mg/kg body weight Animal: mouse, Animal sex: male, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)  250 mg/kg body weight Animal: mouse, Animal sex: female, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)  : Not classified : No data available : Irritation. May cause an allergic skin reaction.   |  |
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| NOAEL (subchronic,oral,animal/male,90 days)  NOAEL (subchronic,oral,animal/female,90 days)  NOAEL (subchronic,oral,animal/female,90 days)  Aspiration hazard //iscosity, kinematic  Symptoms/effects after skin contact Symptoms/effects after eye contact  SECTION 12: Ecological information  12.1. Toxicity  Ecology - general                       | Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)  250 mg/kg body weight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)  500 mg/kg body weight Animal: mouse, Animal sex: male, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)  250 mg/kg body weight Animal: mouse, Animal sex: female, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)  : Not classified  : Not data available  : Irritation. May cause an allergic skin reaction.  : Eye irritation.  : The product is not considered harmful to aquatic organisms or to cause long-term adverse                         |  |
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| ETHYL VANILLIN (121-32-4) |   |  |
|---------------------------|---|--|
| EC50 - Crustacea [1]      | 36.79 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Read-across, GLP)         |  |
| ErC50 algae               | 120 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Read-across, GLP)  |  |
| Myrcene (123-35-3)        |   |  |
| EC50 - Crustacea [1]      | 0.45 mg/l   |  |
| D-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)   |  |

#### 12.2. Persistence and degradability

| ETHYL MALTOL (4940-11-8)      |   |
|-------------------------------|---|
| Persistence and degradability | Biodegradability in water: no data available. |
| ETHYL VANILLIN (121-32-4)     |   |
| Persistence and degradability | Readily biodegradable in water.               |
| ThOD                          | 1.81 g O <sub>2</sub> /g substance            |
| BOD (% of ThOD)               | 0.529 (5 day(s), Literature study)            |
| D-LIMONENE (5989-27-5)        |   |
| Persistence and degradability | Readily biodegradable in water.               |
| ThOD                          | 3.29 g O <sub>2</sub> /g substance            |

## 12.3. Bioaccumulative potential

| ETHYL MALTOL (4940-11-8)                        |  |  |
|---|--|--|
| Bioaccumulative potential                       | No bioaccumulation data available.   |  |
| ETHYL VANILLIN (121-32-4)                       |  |  |
| Partition coefficient n-octanol/water (Log Pow) | 1.58 (Experimental value, Equivalent or similar to OECD 107, 25 °C)                              |  |
| Bioaccumulative potential                       | Low potential for bioaccumulation (Log Kow < 4).   |  |
| D-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 ≥ Log Kow ≤ 5).   |  |

#### 12.4. Mobility in soil

| ETHYL VANILLIN (121-32-4)                                     |  |  |
|---|--|--|
| Organic Carbon Normalized Adsorption<br>Coefficient (Log Koc) | 3.092 (log Koc, Equivalent or similar to OECD 106, Experimental value) |  |
| Ecology - soil  | Low potential for mobility in soil.                                    |  |
| D-LIMONENE (5989-27-5)  |  |  |
| Ecology - soil  | Adsorbs into the soil.   |  |

#### 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. |
|-------------------------|---|
| Waste treatment methods | . Dispose of contents/container in accordance with nechood concete a serting methodicine.     |

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#### **SECTION 14: Transport information**

#### **Department of Transportation (DOT)**

In accordance with DOT

Transport document description (DOT) : UN3082 Environmentally hazardous substances, liquid, n.o.s. (LIMONENE), 9, III

UN-No.(DOT) : UN3082

Proper Shipping Name (DOT) : Environmentally hazardous substances, liquid, n.o.s.

LIMONENE

Class (DOT) 9 - Class 9 - Miscellaneous hazardous material 49 CFR 173.140

Packing group (DOT) : III - Minor Danger

Hazard labels (DOT) : 9 - Class 9 (Miscellaneous dangerous materials)

: 203

: 241



transit or destination.

DOT Packaging Non Bulk (49 CFR 173.xxx)

DOT Packaging Bulk (49 CFR 173.xxx)

**DOT Symbols** 

DOT Special Provisions (49 CFR 172.102)

: G - Identifies PSN requiring a technical name

: 8 - A hazardous substance that is not a hazardous waste may be shipped under the shipping description "Other regulated substances, liquid or solid, n.o.s.", as appropriate. In addition, for solid materials, special provision B54 applies.

146 - This description may be used for a material that poses a hazard to the environment but does not meet the definition for a hazardous waste or a hazardous substance, as defined in 171.8 of this subchapter, or any hazard class as defined in Part 173 of this subchapter, if it is designated as environmentally hazardous by the Competent Authority of the country of origin,

173 - An appropriate generic entry may be used for this material.

335 - Mixtures of solids that are not subject to this subchapter and environmentally hazardous liquids or solids may be classified as "Environmentally hazardous substances, solid, n.o.s," UN3077 and may be transported under this entry, provided there is no free liquid visible at the time the material is loaded or at the time the packaging or transport unit is closed. Each transport unit must be leak-proof when used as bulk packaging.

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).

T4 - 2.65 178.274(d)(2) Normal..... 178.275(d)(3)

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. TP29 - A portable tank having a minimum test pressure of 1.5 bar (150.0 kPa) may be used provided the calculated test pressure is 1.5 bar or less based on the MAWP of the hazardous materials, as defined in 178.275 of this subchapter, where the test pressure is 1.5 times the MAWP.

DOT Packaging Exceptions (49 CFR 173.xxx) DOT Quantity Limitations Passenger aircraft/rail : No Limit

(49 CFR 173.27)

DOT Quantity Limitations Cargo aircraft only (49 : No Limit

CFR 175.75)

**DOT Vessel Stowage Location** : A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a

passenger vessel.

Emergency Response Guide (ERG) Number

Other information : No supplementary information available.

**Transportation of Dangerous Goods** 

: UN3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (LIMONENE), 9, Transport document description (TDG)

Ш

UN-No. (TDG)

Proper Shipping Name (TDG) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

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TDG Primary Hazard Classes : 9 - Class 9 - Miscellaneous Products, Substances or Organisms

Packing group (TDG) : III - Minor Danger

**TDG Special Provisions** 16 - (1) The technical name of at least one of the most dangerous substances that

predominantly contributes to the hazard or hazards posed by the dangerous goods must be shown, in parentheses, on the shipping document following the shipping name in accordance with clause 3.5(1)(c)(ii)(A) of Part 3 (Documentation). The technical name must also be shown, in parentheses, on a small means of containment or on a tag following the shipping name in accordance with subsections 4.11(2) and (3) of Part 4 (Dangerous Goods Safety Marks). (2) Despite subsection (1), the technical name for the following dangerous goods is not required to be shown on a shipping document or on a small means of containment when Canadian law for domestic transport or an international convention for international transport prohibits the disclosure of the technical name:

(a) UN1544, ALKALOID SALTS, SOLID, N.O.S. or ALKALOIDS, SOLID, N.O.S;

(b) UN1851, MEDICINE, LIQUID, TOXIC, N.O.S;

(c) UN3140, ALKALOID SALTS, LIQUID, N.O.S. or ALKALOIDS, LIQUID, N.O.S;

(d) UN3248, MEDICINE, LIQUID, FLAMMABLE, TOXIC, N.O.S; or

(e) UN3249, MEDICINE, SOLID, TOXIC, N.O.S.

(3) Despite subsection (1), the technical name for the following dangerous goods is not required to be shown on a small means of containment:

(a) UN2814, INFECTIOUS SUBSTANCE, AFFECTING HUMANS; or

(b) UN2900, INFECTIOUS SUBSTANCE, AFFECTING ANIMALS, 99 - (1) Mixtures of solids that are not dangerous goods and liquids or solids that are UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S, or UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S, may be handled, offered for transport or transported as UN3077 if there is no visible liquid when the dangerous goods are loaded into a means containment and during transport.

(2) These Regulations, except for Part 1 (Coming into Force, Repeal, Interpretation, General Provisions and Special Cases) and Part 2 (Classification), do not apply to the handling, offering for transport or transporting of less than 450 kg of UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S, or less than 450 L of UN3082,

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S, on a road vehicle or a railway vehicle. The dangerous goods must be contained in one or more small means of containment designed, constructed, filled, closed, secured and maintained so that under normal conditions of transport, including handling, there will be no accidental release of the dangerous goods that could endanger public safety.

**Explosive Limit and Limited Quantity Index** : 5 L

#### Transport by sea

Transport document description (IMDG) : UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (D-LIMONENE),

9, III, MARINE POLLUTANT

UN-No. (IMDG)

Proper Shipping Name (IMDG) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

Class (IMDG) : 9 - Miscellaneous dangerous substances and articles

Packing group (IMDG) : III - substances presenting low danger

Limited quantities (IMDG) : 5 L

#### Air transport

Transport document description (IATA) : UN 3082 Environmentally hazardous substance, liquid, n.o.s. (D-LIMONENE), 9, III

UN-No. (IATA)

Proper Shipping Name (IATA) : Environmentally hazardous substance, liquid, n.o.s. Class (IATA) : 9 - Miscellaneous Dangerous Substances and Articles

Packing group (IATA) : III - Low danger

#### **SECTION 15: Regulatory information**

15.1. US Federal regulations

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All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

| CAS-No. 6413-10-1 | 1 – 5%  |
|-------------------|---|
| CAS-No. 142-19-8  | 1 – 5%  |
| CAS-No. 5392-40-5 | 1 – 5%  |
| CAS-No. 4940-11-8 | 1 – 5%  |
| CAS-No. 121-32-4  | 1 – 5%  |
| CAS-No. 123-35-3  | 0.5 – 1%  |
| CAS-No. 5989-27-5 | 10 – 30%  |
| CAS-No. 99-87-6   | < 0.5%  |
|                   | CAS-No. 142-19-8<br>CAS-No. 5392-40-5<br>CAS-No. 4940-11-8<br>CAS-No. 121-32-4<br>CAS-No. 123-35-3<br>CAS-No. 5989-27-5 |

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.

#### 15.2. International regulations

#### **CANADA**

#### FRUCTONE (6413-10-1)

Listed on the Canadian DSL (Domestic Substances List)

#### **ALLYL HEPTOATE (142-19-8)**

Listed on the Canadian DSL (Domestic Substances List)

#### CITRAL (5392-40-5)

Listed on the Canadian DSL (Domestic Substances List)

#### ETHYL MALTOL (4940-11-8)

Listed on the Canadian DSL (Domestic Substances List)

#### ETHYL VANILLIN (121-32-4)

Listed on the Canadian DSL (Domestic Substances List)

#### Myrcene (123-35-3)

Listed on the Canadian DSL (Domestic Substances List)

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

Listed on the Canadian DSL (Domestic Substances List)

#### p-Cymene (99-87-6)

Listed on the Canadian DSL (Domestic Substances List)

#### **EU-Regulations**

No additional information available

#### **National regulations**

#### FRUCTONE (6413-10-1)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on the TCSI (Taiwan Chemical Substance Inventory)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on the Japanese ENCS (Existing New Chemical Substances) inventory

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Listed on the EC Inventory

Listed on INSQ (Mexican National Inventory of Chemical Substances)

Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)

Listed on KECL/KECI (Korean Existing Chemicals Inventory)

Listed on KECI (Korean Existing Chemicals Inventory)

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#### **ALLYL HEPTOATE (142-19-8)**

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on the TCSI (Taiwan Chemical Substance Inventory)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on the Japanese ENCS (Existing New Chemical Substances) inventory

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Listed on the EC Inventory

Listed on INSQ (Mexican National Inventory of Chemical Substances)

Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)

Listed on KECL/KECI (Korean Existing Chemicals Inventory)

Listed on KECI (Korean Existing Chemicals Inventory)

#### CITRAL (5392-40-5)

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

Listed on INSQ (Mexican National Inventory of Chemical Substances)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on KECI (Korean Existing Chemicals Inventory)

Listed on the TCSI (Taiwan Chemical Substance Inventory)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on the Japanese ENCS (Existing New Chemical Substances) inventory

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Listed on the EC Inventory

Listed on the Australian HSIS Consolidated List

Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)

#### ETHYL MALTOL (4940-11-8)

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

Listed on INSQ (Mexican National Inventory of Chemical Substances)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on KECI (Korean Existing Chemicals Inventory)

Listed on the TCSI (Taiwan Chemical Substance Inventory)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on the Japanese ENCS (Existing New Chemical Substances) inventory

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Listed on the EC Inventory

Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)

## ETHYL VANILLIN (121-32-4)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on the TCSI (Taiwan Chemical Substance Inventory)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on the Japanese ENCS (Existing New Chemical Substances) inventory

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Listed on the EC Inventory

Listed on INSQ (Mexican National Inventory of Chemical Substances)

Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)

Listed on KECL/KECI (Korean Existing Chemicals Inventory)

Listed on KECI (Korean Existing Chemicals Inventory)

#### 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)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on KECI (Korean Existing Chemicals Inventory)

Listed on the TCSI (Taiwan Chemical Substance Inventory)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on the Japanese ENCS (Existing New Chemical Substances) inventory

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Listed on the EC Inventory

Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)

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

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

Listed on INSQ (Mexican National Inventory of Chemical Substances)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on KECI (Korean Existing Chemicals Inventory)

Listed on the TCSI (Taiwan Chemical Substance Inventory)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on the Japanese ENCS (Existing New Chemical Substances) inventory

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Listed on the EC Inventory

Listed on the Australian HSIS Consolidated List

Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)

#### p-Cymene (99-87-6)

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

Listed on INSQ (Mexican National Inventory of Chemical Substances)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on KECI (Korean Existing Chemicals Inventory)

Listed on the TCSI (Taiwan Chemical Substance Inventory)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on the Japanese ENCS (Existing New Chemical Substances) inventory

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Listed on the EC Inventory

Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)

#### **SECTION 16: Other information**

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#### Full text of H-phrases:

| H226 | Flammable liquid and vapor                          |
|------|---|
| H227 | Combustible liquid                                  |
| H301 | Toxic if swallowed                                  |
| H302 | Harmful if swallowed                                |
| H304 | May be fatal if swallowed and enters airways        |
| H311 | Toxic in contact with skin                          |
| H314 | Causes severe skin burns and eye damage             |
| H315 | Causes skin irritation                              |
| H317 | May cause an allergic skin reaction                 |
| H318 | Causes serious eye damage                           |
| H319 | Causes serious eye irritation                       |
| H331 | Toxic if inhaled                                    |
| H351 | Suspected of causing cancer                         |
| H361 | Suspected of damaging fertility or the unborn child |

#### SDS US

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 quaranteeing any specific property of the product.

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