

MATERIAL SAFETY DATA SHEET - MSDS

*Efficacious Ingredients * Hygienically Stored & Processed * Convenient Deliveries*

Product Name: CINNAMON ORANGE CLOVE

INCI: Fragrance

CAS number: N/A

EINECS number:

Recommended Use: Raw Material for Topical Cosmetic Products

Supplier: Skin Foodie

21, Joel Ogunnaike Street, GRA, Ikeja Lagos, Nigeria

Telephone No. +234-908-269 -8013

Email : Hello@skinfoodie.com.ng

SECTION 1: IDENTIFICATION

1.1. Identification

| | |
|--------------|-----------------------|
| Product form | Mixture |
| Product name | CINNAMON ORANGE CLOVE |
| CAS-No. | N/A |

1.2. Recommended use and restrictions on use

1.3. Supplier

SKIN FOODIE

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 |
| Skin corrosion/irritation Category 2 | Causes skin irritation |
| 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 |
| Aspiration hazard Category 1 | May be fatal if swallowed and enters airways |

2.2. GHS Label elements, including precautionary statements

GHS US labeling

Hazard pictograms (GHS US)



Signal word (GHS US)

: Danger

Hazard statements (GHS US)

: Combustible liquid
May be fatal if swallowed and enters airways
Causes skin irritation
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 swallowed: Immediately call a poison center or doctor.
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).
Do NOT induce vomiting.
If skin irritation occurs: Get medical advice/attention.

If skin irritation or rash occurs: Get medical advice/attention.

If eye irritation persists: Get medical advice/attention.

Take off contaminated clothing and wash it before reuse.

Wash contaminated clothing before reuse.

In case of fire: Use media other than water to extinguish.

Store in a well-ventilated place. Keep cool.

Store locked up.

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 |
|--------------------|---------------------|--------|---|
| BETA-CARYOPHYLLENE | (CAS-No.) 87-44-5 | 5 – 10 | Skin Sens. 1B, H317 Asp. Tox. 1, H304 |
| LINALOOL | (CAS-No.) 78-70-6 | 5 – 10 | Flam. Liq. 4, H227 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Skin Sens. 1B, H317 |
| CINNAMIC ALDEHYDE | (CAS-No.) 104-55-2 | 5 – 10 | Acute Tox. 4 (Dermal), H312 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Skin Sens. 1B, H317 |
| CITRAL | (CAS-No.) 5392-40-5 | 5 – 10 | Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Skin Sens. 1, H317 STOT RE 2, H373 |
| DECANAL | (CAS-No.) 112-31-2 | 5 – 10 | Flam. Liq. 4, H227 Eye Irrit. 2A, H319 |

| | | | |
|---|---------------------|-------|---|
| 2-Methyl-3-(p-isopropylphenyl)propionaldehyde | (CAS-No.) 103-95-7 | 1 – 5 | Skin Irrit. 2, H315 Skin Sens. 1B, H317 |
| ETHYL BUTYRATE | (CAS-No.) 105-54-4 | 1 – 5 | Flam. Liq. 3, H226 Eye Irrit. 2A, H319 |
| D-LIMONENE | (CAS-No.) 5989-27-5 | 1 – 5 | Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1B, H317 Asp. Tox. 1, H304 |
| OCTANAL | (CAS-No.) 124-13-0 | 1 – 5 | Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 |
| ALLYL CYCLOHEXYLPROPIONATE | (CAS-No.) 2705-87-5 | 1 – 5 | Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Skin Sens. 1, H317 |
| PHENYLETHYL ACETATE | (CAS-No.) 103-45-7 | 1 – 5 | Eye Dam. 1, H318 |
| DL-CITRONELLOL | (CAS-No.) 106-22-9 | 1 – 5 | Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Skin Sens. 1B, H317 |
| GERANIOL | (CAS-No.) 106-24-1 | 1 – 5 | Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 |
| ETHYL METHYLPHENYLGLYCIDATE | (CAS-No.) 77-83-8 | 1 – 5 | Skin Sens. 1B, H317 |

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 | : Call a physician immediately. |
| 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 | : Do not induce vomiting. Call a physician immediately. |

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

| | |
|-------------------------------------|---|
| Symptoms/effects after inhalation | : Although no appropriate human or animal health effects data are known to exist, this material is expected to be an inhalation hazard. |
| Symptoms/effects after skin contact | : Irritation. May cause an allergic skin reaction. |

Symptoms/effects after eye contact : Eye irritation.
Symptoms/effects after ingestion : Risk of lung edema.

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.
Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Specific hazards arising from the chemical

Fire hazard : Combustible liquid.
Explosion hazard : No direct explosion hazard.
Reactivity : The product is non-reactive under normal conditions of use, storage and transport.

5.3. 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.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. 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

6.1.1. For non-emergency personnel

Protective equipment : Wear recommended personal protective equipment.
Emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes. Avoid breathing 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".

Emergency procedures : Evacuate unnecessary personnel. Stop leak if safe to do so.

6.2. Environmental precautions

Avoid release to the environment.

6.3. 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.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: HANDLING AND STORAGE

7.1. 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 workstation. Avoid contact with skin and eyes. Wear personal protective equipment. Avoid breathing dust/fume/gas/mist/vapors/spray. Avoid contact with skin and eyes.

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.

7.2. 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 : Store always product in container of same material as original container.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

CINNAMON ORANGE CLOVE

No additional information available

OCTANAL (124-13-0)

No additional information available

DECANAL (112-31-2)

No additional information available

ALLYL CYCLOHEXYLPROPIONATE (2705-87-5)

No additional information available

CITRAL (5392-40-5)

USA - ACGIH - Occupational Exposure Limits

| | |
|----------------------|--|
| Local name | Citral |
| ACGIH OEL TWA | 5 ppm (IFV - Inhalable fraction and vapor) |
| Remark (ACGIH) | TLV® Basis: Body weight eff; URT irr; eye dam. Notations: Skin; DSEN; A4 (Not classifiable as a Human Carcinogen) |
| Regulatory reference | ACGIH 2024 |

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

No additional information available

ETHYL BUTYRATE (105-54-4)

No additional information available

LINALOOL (78-70-6)

No additional information available

PHENYLETHYL ACETATE (103-45-7)

No additional information available

BETA-CARYOPHYLLENE (87-44-5)

No additional information available

D-LIMONENE (5989-27-5)

No additional information available

GERANIOL (106-24-1)

No additional information available

CINNAMIC ALDEHYDE (104-55-2)

No additional information available

DL-CITRONELLOL (106-22-9)

No additional information available

ETHYL METHYLPHENYLGLYCIDATE (77-83-8)

No additional information available

8.2. Appropriate engineering controls

| | |
|----------------------------------|---|
| Appropriate engineering controls | : Ensure good ventilation of the workstation. |
| Environmental exposure controls | : Avoid release to the environment. |

8.3. 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



SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

| | |
|---|--|
| Physical state | : Liquid |
| Colour | : COLOURLESS TO YELLOW |
| Odour: | : CHARACTERISTIC, MATCHING RETAINER SAMPLE |
| Odour threshold | : No data available |
| pH: | : No data available |
| Melting point | : Not applicable |
| Freezing point range: | : No data available |
| Boiling point | : No data available |
| Flash point: | : 71 °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: | : 0.927 (0.917 – 0.937) |
| 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 |
| Explosion limits | : No data available |
| Explosive properties | : No data available |
| Oxidizing properties | : No data available |

9.2. Other information

| | |
|------------------|-------------------------|
| Refractive index | : 1.478 (1.468 – 1.488) |
|------------------|-------------------------|

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

OCTANAL (124-13-0)

LD50 oral rat 4617 mg/kg body weight Animal: rat, Animal sex: male,
Remarks on results: other:

LD50 dermal rabbit 5207 mg/kg body weight Animal: rabbit, Animal sex: male

LC50 Inhalation - Rat > 0.83 mg/l air Animal: rat, Animal sex: male, Remarks on
results: other:

ATE US (oral) 4617 mg/kg body weight

ATE US (dermal) 5207 mg/kg body weight

ALLYL CYCLOHEXYLPROPIONATE (2705-87-5)

LD50 oral rat 585 mg/kg body weight Animal: rat, Guideline: OECD
Guideline 401 (Acute Oral Toxicity), 95% CL: 480 - 714

LD50 dermal rabbit 1600 mg/kg body weight Animal: rabbit, Guideline: OECD
Guideline 402 (Acute Dermal Toxicity), 95% CL: 430 -
2770

ATE US (oral) 380 mg/kg body weight

ATE US (dermal) 1600 mg/kg body weight

CITRAL (5392-40-5)

LD50 oral rat ≈ 6800 mg/kg body weight Animal: rat

LD50 dermal rat > 2000 mg/kg body weight Animal: rat, Remarks on results:
other:

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

| | |
|-----------------|--|
| LD50 oral rat | 3810 mg/kg (Rat, Male / female, Weight of evidence, Oral, 14 day(s)) |
| LD50 dermal rat | > 5000 mg/kg (Rat, Male, Experimental value, Dermal, 14 day(s)) |
| ATE US (oral) | 3810 mg/kg body weight |

ETHYL BUTYRATE (105-54-4)

| | |
|-----------------------------|--|
| 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: |
| 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: |

LINALOOL (78-70-6)

| | |
|---------------|------------------------|
| ATE US (oral) | 2790 mg/kg body weight |
|---------------|------------------------|

PHENYLETHYL ACETATE (103-45-7)

| | |
|---------------|------------------------|
| ATE US (oral) | 2500 mg/kg body weight |
|---------------|------------------------|

D-LIMONENE (5989-27-5)

| | |
|--------------------|---|
| LD50 oral rat | > 2000 mg/kg body weight (OECD 423: Acute Oral Toxicity – Acute Toxic Class Method, Rat, Female, Experimental value, Oral, 14 day(s)) |
| LD50 dermal rabbit | > 5000 mg/kg body weight (Equivalent or similar to OECD 402, 24 h, Rabbit, Read-across, Dermal, 7 day(s)) |

GERANIOL (106-24-1)

| | |
|---------------|------------------------|
| ATE US (oral) | 3600 mg/kg body weight |
|---------------|------------------------|

CINNAMIC ALDEHYDE (104-55-2)

| | |
|-----------------------|--|
| LD50 oral rat | 2220 mg/kg (Rat, Oral) |
| LD50 dermal rabbit | 1260 ml/kg (24 h, Rabbit, Male / female, Experimental value, Dermal) |
| LC50 Inhalation - Rat | 68.88 mg/l (4 h, Rat, Male / female, QSAR, Inhalation) |
| ATE US (oral) | 2200 mg/kg body weight |
| ATE US (dermal) | 1100 mg/kg body weight |
| ATE US (vapors) | 68.88 mg/l/4h |
| ATE US (dust, mist) | 68.88 mg/l/4h |

DL-CITRONELLOL (106-22-9)

| | |
|--------------------|--|
| LD50 oral rat | 3450 mg/kg (Rat, Inconclusive, insufficient data, Oral) |
| LD50 dermal rabbit | 2650 mg/kg (Rabbit, Inconclusive, insufficient data, Dermal) |
| ATE US (oral) | 3450 mg/kg body weight |
| ATE US (dermal) | 2650 mg/kg body weight |

| | |
|-----------------------------------|--|
| 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 : Not classified

CITRAL (5392-40-5)

NOAEL (chronic,oral,animal/male,2 years) 60 mg/kg body weight Animal: mouse, Animal sex: male, Guideline: OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies), Remarks on results: other:

Reproductive toxicity : Not classified

OCTANAL (124-13-0)

NOAEL (animal/female, F1) 300 mg/kg body weight Animal: rat, Animal sex: female

STOT-single exposure : Not classified

STOT-repeated exposure : Not classified

CITRAL (5392-40-5)

LOAEC (inhalation, rat, gas, 90 days) 68 ppm Animal: rat, Animal sex: female

NOAEL (oral, rat, 90 days) 100 mg/kg body weight Animal: rat, Guideline: OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)

NOAEC (inhalation, rat, gas, 90 days) 34 ppm Animal: rat, Animal sex: female

NOAEL (subchronic, oral, animal/male, 90 days) 60 mg/kg body weight Animal: mouse, Animal sex: male, Guideline: OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)

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

Aspiration hazard : May be fatal if swallowed and enters airways.

Viscosity, kinematic : No data available

Symptoms/effects after inhalation : Although no appropriate human or animal health effects data are known to exist, this material is expected to be an inhalation hazard.

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

Symptoms/effects after eye contact : Eye irritation.

Symptoms/effects after ingestion : Risk of lung edema.

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.

OCTANAL (124-13-0)

EC50 - Crustacea [1] 1.54 mg/l Test organisms (species): Daphnia magna

DECANAL (112-31-2)

LC50 - Fish [1] 2.1 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)

EC50 - Crustacea [1] 1.94 mg/l Test organisms (species): Daphnia magna

LC50 - Fish [2] 1.45 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)

EC50 - Crustacea [2] 1.17 mg/l Test organisms (species): Daphnia magna

ALLYL CYCLOHEXYLPROPIONATE (2705-87-5)

LC50 - Fish [1] 0.13 mg/l Test organisms (species): Pimephales promelas

EC50 - Crustacea [1] 3.8 mg/l Test organisms (species): Daphnia magna

CITRAL (5392-40-5)

LC50 - Fish [1] 6.78 mg/l Test organisms (species): Leuciscus idus

EC50 - Crustacea [1] 6.8 mg/l Test organisms (species): Daphnia magna

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

LC50 - Fish [1] 1.092 mg/l (96 h, Calculated value)

EC50 - Crustacea [1] 1.4 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Semi- static system, Fresh water, Experimental value)

LC50 - Fish [2] 2.49 mg/l Test organisms (species):

ETHYL BUTYRATE (105-54-4)

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'

D-LIMONENE (5989-27-5)

LC50 - Fish [1] 720 μ g/l (Equivalent or similar to OECD 203, 96 h, Pimephales promelas, Flow-through system, Fresh water, Experimental value)

EC50 - Crustacea [1] 0.307 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Semi- static system, Fresh water, Experimental value, GLP)

LC50 - Fish [2] 702 μ g/l Test organisms (species): Pimephales promelas

EC50 - Crustacea [2] 0.51 mg/l Test organisms (species): Daphnia magna

CINNAMIC ALDEHYDE (104-55-2)

LC50 - Fish [1] 4.15 mg/l (EU Method C.1, 96 h, Danio rerio, Semi-static system, Fresh water, Experimental value, GLP)

EC50 - Crustacea [1] 3.21 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, Locomotor effect)

DL-CITRONELLOL (106-22-9)

LC50 - Fish [1] 14.66 mg/l (DIN 38412-15, 96 h, Leuciscus idus, Static system, Fresh water, Experimental value)

EC50 - Crustacea [1] 17.48 mg/l (48 h, Daphnia magna, Static system, Fresh water, Experimental value)

12.2. Persistence and degradability

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

Persistence and degradability Readily biodegradable in water.

D-LIMONENE (5989-27-5)

Persistence and degradability Readily biodegradable in water.

ThOD 3.29 g O₂/g substance

CINNAMIC ALDEHYDE (104-55-2)

Persistence and degradability Readily biodegradable in water.

DL-CITRONELLOL (106-22-9)

Persistence and degradability Readily biodegradable in water.

Chemical oxygen demand (COD) 2.05 g O₂/g substance

ThOD 2.961 g O₂/g substance

12.3. Bioaccumulative potential

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

BCF - Fish [1] 155 l/kg (Calculated value)

Partition coefficient n-octanol/water (Log Pow) 3.4 (Practical experience/observation, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 35 °C)

Bioaccumulative potential Low potential for bioaccumulation (BCF < 500).

D-LIMONENE (5989-27-5)

BCF - Fish [1] 864.8 l/kg (BCFBAF v3.01, Pisces, QSAR, Fresh weight)

Partition coefficient n-octanol/water (Log Pow) 4.38 (Experimental value, Equivalent or similar to OECD 117, 37 °C)

Bioaccumulative potential Potential for bioaccumulation ($4 \leq \text{Log Kow} \leq 5$).

CINNAMIC ALDEHYDE (104-55-2)

Partition coefficient n-octanol/water (Log Pow) 2.107 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 25 °C)

Bioaccumulative potential Low potential for bioaccumulation ($\text{Log Kow} < 4$).

DL-CITRONELLOL (106-22-9)

BCF - Fish [1] 82.59 l/kg (BCFBAF v3.00, Estimated value)

Partition coefficient n-octanol/water (Log Pow) 3.41 (Practical experience/observation, EU Method A.8: Partition Coefficient, 25 °C)

Bioaccumulative potential Low potential for bioaccumulation (BCF < 500).

12.4. Mobility in soil

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

| | |
|--|---|
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | 3.05 (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. |

D-LIMONENE (5989-27-5)

| | |
|--|--|
| Surface tension | No data available in the literature |
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | 3.049 – 3.801 (log Koc, SRC PCKOCWIN v2.0, Calculated value) |
| Ecology - soil | Low potential for mobility in soil. |

CINNAMIC ALDEHYDE (104-55-2)

| | |
|--|--|
| Surface tension | 45.3 mN/m (20 °C, Experimental value) |
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | 1.958 (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 | Highly mobile in soil. |

DL-CITRONELLOL (106-22-9)

| | |
|--|--|
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | 1.85 (log Koc, EPIWIN 2.00, Estimated value) |
| Ecology - soil | Highly mobile in soil. |

12.5. Other adverse effects

No additional information available

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. 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. |

SECTION 14: TRANSPORT INFORMATION

Department of Transportation (DOT)

In accordance with DOT

| | |
|--|---|
| Transport document description (DOT) | : UN1266 Perfumery products (Regulated for Bulk only), Comb Liq, III |
| UN-No.(DOT) | : UN1266 |
| Proper Shipping Name (DOT) | : Perfumery products (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) | : 242 |
| DOT Special Provisions (49 CFR 172.102) | : B1 - If the material has a flash point at or above 38 C (100 F) and below 93 C (200 F), then the bulk packaging requirements of 173.241 of this subchapter are applicable. If the material has a flash point of less than 38 C (100 F), then the bulk packaging requirements of 173.242 of this subchapter are applicable. 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). T2 - 1.5 178.274(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. |
| 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. |
| Emergency Response Guide (ERG) Number | : 127 |
| Other information | : No supplementary information available. |

Transportation of Dangerous Goods
Not regulated

Transport by sea
Not regulated

Air transport
Not regulated

SECTION 15: REGULATORY INFORMATION

15.1. US Federal regulations

OCTANAL (124-13-0)

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

DECANAL (112-31-2)

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

ETHYL BUTYRATE (105-54-4)

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

PHENYLETHYL ACETATE (103-45-7)

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

CINNAMIC ALDEHYDE (104-55-2)

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

15.2. International regulations

CANADA

OCTANAL (124-13-0)

Listed on the Canadian DSL (Domestic Substances List)

DECANAL (112-31-2)

Listed on the Canadian DSL (Domestic Substances List)

ALLYL CYCLOHEXYLPROPIONATE (2705-87-5)

Listed on the Canadian DSL (Domestic Substances List)

CITRAL (5392-40-5)

Listed on the Canadian DSL (Domestic Substances List)

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

Listed on the Canadian DSL (Domestic Substances List)

ETHYL BUTYRATE (105-54-4)

Listed on the Canadian DSL (Domestic Substances List)

LINALOOL (78-70-6)

Listed on the Canadian DSL (Domestic Substances List)

PHENYLETHYL ACETATE (103-45-7)

Listed on the Canadian DSL (Domestic Substances List)

BETA-CARYOPHYLLENE (87-44-5)

Listed on the Canadian DSL (Domestic Substances List)

CINNAMIC ALDEHYDE (104-55-2)

Listed on the Canadian DSL (Domestic Substances List)

DL-CITRONELLOL (106-22-9)

Listed on the Canadian DSL (Domestic Substances List)

ETHYL METHYLPHENYLGLYCIDATE (77-83-8)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

No additional information available

National regulations

ALLYL CYCLOHEXYLPROPIONATE (2705-87-5)

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

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)

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

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

LINALOOL (78-70-6)

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

DL-CITRONELLOL (106-22-9)

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

ETHYL METHYLPHENYLGLYCIDATE (77-83-8)

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

15.3. US State regulations

This product can expose you to toluene, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

 **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.

This product can expose you to beta-myrcene, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

Component

State or local regulations

OCTANAL(124-13-0)

U.S. - Massachusetts - Right To Know List

ETHYL BUTYRATE(105-54-4)

U.S. - New Jersey - Right to Know Hazardous Substance List

SECTION 16: OTHER INFORMATION

Full text of H-phrases:

| | |
|------|---|
| H226 | Flammable liquid and vapor |
| H227 | Combustible liquid |
| H302 | Harmful if swallowed |
| H304 | May be fatal if swallowed and enters airways |
| H312 | Harmful in contact with skin |
| H315 | Causes skin irritation |
| H317 | May cause an allergic skin reaction |
| H318 | Causes serious eye damage |
| H319 | Causes serious eye irritation |
| H373 | May cause damage to organs through prolonged or repeated exposure |

DISCLAIMER

Technical information and suggestions for use including any formulations and / or procedures are believed to be correct. However, this does not constitute a guarantee of the accuracy of the information contained herein. Confirming tests in your own laboratory or facility are recommended. This information is for general research purposes only and is not a representation or warranty of any kind. It is the user's responsibility to satisfy himself as to the suitability & completeness of such information for his own particular use. The information contained in this certificate of analysis and material safety data sheet are obtained from current and reliable sources. As the use(s) of this product is outside the control of skin foodie, no representation or warranty, expressed or implied is made as to the effect(s) of such use(s) (including damage or injury), or the results obtained.

Skin Foodie assume no responsibility for any loss, damage, or expense, direct or consequential, arising out of use.