

**MATERIAL SAFETY DATA SHEET - MSDS**

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

**Product Name:** Lemon Verbena Fragrance Oil

**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](mailto:Hello@skinfoodie.com.ng)

**SECTION 1: IDENTIFICATION**

**1.1. Identification**

Product form	Mixture
Product name	LEMON VERBENA FRAGRANCE OIL
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

**SECTION 2 : HAZARD(S) IDENTIFICATION**

**2.1. Classification of the substance or mixture**

GHS US classification

Skin sensitization, Category 1

Reproductive toxicity Category 2

May cause an allergic skin reaction

Suspected of damaging fertility or the unborn child

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 labelling

Hazard pictograms (GHS US)



GHS07

GHS08

Signal Word (GHS US)

: Warning

Hazard statements (GHS US)

: May cause an allergic skin reaction  
Suspected of damaging fertility or the unborn child  
May cause damage to organs through prolonged or repeated exposure.

Precautionary statements (GHS US)

: Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.  
Do not breathe dust/fume/gas/mist/vapors/spray.  
Avoid breathing dust/fume/gas/mist/vapors/spray.  
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 exposed or concerned: Get medical advice/attention.  
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.  
Wash contaminated clothing before reuse.  
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

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## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

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### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name	Product identifier	%	GHS US classification
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
CITRAL	(CAS-No.) 5392-40-5	1 – 5	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Skin Sens. 1, H317 STOT RE 2, H373
LINALOOL	(CAS-No.) 78-70-6	1 – 5	Flam. Liq. 4, H227 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Skin Sens. 1B, H317
GERANIOL	(CAS-No.) 106-24-1	0.1 – 1	Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317
1-ISOPROPYL-4-METHYLCYCLOHEXA-1,4-DIENE*	(CAS-No.) 99-85-4	0.1 – 1	Flam. Liq. 3, H226  Repr. 2, H361 Asp. Tox. 1, H304

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

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## SECTION 4: FIRST AID MEASURES

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### 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 eyes with water as a precaution.
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.

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

Treat symptomatically.

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## SECTION 5: FIRE-FIGHTING MEASURES

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### 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

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

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

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

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## SECTION 6: ACCIDENTAL RELEASE MEASURES

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

#### 6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. 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 act 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.

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## SECTION 7: HANDLING AND STORAGE

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### 7.1. Reference to other sections

Precautions for safe handling: : Ensure good ventilation of the work station. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. 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 locked up. Store in a well-ventilated place. Keep cool.

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## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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### 8.1. Control parameters

#### LEMON VERBENA (N/A)

No additional information available

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

USA - ACGIH - Occupational Exposure Limits

Local name Citral

ACGIH OEL TWA [ppm] 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 2023

#### LINALOOL (78-70-6)

No additional information available

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

No additional information available

#### GERANIOL (106-24-1)

No additional information available

#### 1-ISOPROPYL-4-METHYLCYCLOHEXA-1,4-DIENE\* (99-85-4)

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

**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].




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**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**


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

Physical state	: Liquid
Colour	: Colourless to Yellow
Odour:	: Characteristic, Matching retainer sample
Odor 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:	: 95 °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:	: 0.938 (0.928 – 0.948)
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	: 1.453 (1.443 – 1.463)
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## SECTION 10: STABILITY AND REACTIVITY

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### 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

None under recommended storage and handling conditions (see section 7).

### 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.

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## SECTION 11: TOXICOLOGICAL INFORMATION

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### 11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified

Acute toxicity (dermal) : Not classified

Acute toxicity (inhalation) : Not classified

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

LD50 oral rat  $\approx$  6800 mg/kg body weight Animal: rat

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

#### LINALOOL (78-70-6)

ATE US (oral) 2790 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

#### 1-ISOPROPYL-4-METHYLCYCLOHEXA-1,4-DIENE\* (99-85-4)

ATE US (oral) 3650 mg/kg body weight

Skin corrosion/irritation : Not classified

Serious eye damage/irritation : Not classified

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	: Suspected of damaging fertility or the unborn child.
STOT-single exposure	: Not classified
STOT-repeated exposure	: May cause damage to organs through prolonged or repeated exposure.

#### 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	: Not classified
Viscosity, kinematic	: No data available
Symptoms/effects after skin contact	: May cause an allergic skin reaction.

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## SECTION 12: ECOLOGICAL INFORMATION

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### 12.1. Toxicity

Ecology - general	: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.
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#### CITRAL (5392-40-5)

LC50 - Fish [1]	6.78 mg/l Test organisms (species): Leuciscus idus
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#### CITRAL (5392-40-5)

EC50 - Crustacea [1]	6.8 mg/l Test organisms (species): Daphnia magna
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#### D-LIMONENE (5989-27-5)

LC50 - Fish [1]	720 µg/l (Equivalent or similar to OECD 203, 96 h, Pimephales promelas, Flow-through system, Fresh water, Experimental value)
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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 µg/l Test organisms (species): Pimephales promelas
EC50 - Crustacea [2]	0.51 mg/l Test organisms (species): Daphnia magna

## 12.2. Persistence and degradability

### 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

### 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 ( $4 \leq \text{Log Kow} \leq 5$ ).

## 12.4. 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.

## 12.5. Other adverse effects

No additional information available

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## SECTION 13: DISPOSAL CONSIDERATIONS

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### 13.1. Disposal methods

Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
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## SECTION 14: TRANSPORT INFORMATION

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### Department of Transportation (DOT)

In accordance with DOT  
Not regulated

### Transportation of Dangerous Goods

Not applicable

Transport by sea

Not applicable

Air transport

Not applicable

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## SECTION 15: REGULATORY INFORMATION

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### 15.1. US Federal regulations

No additional information available

### 15.2. International regulations

Canada

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

Listed on the Canadian DSL (Domestic Substances List)

#### LINALOOL (78-70-6)

Listed on the Canadian DSL (Domestic Substances List)

#### 1-ISOPROPYL-4-METHYLCYCLOHEXA-1,4-DIENE\* (99-85-4)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

No additional information available

National regulations

#### 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)

#### 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)

### 1-ISOPROPYL-4-METHYLCYCLOHEXA-1,4-DIENE\* (99-85-4)

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

This product can expose you to furocoumarines (e. g. trioxysalen (inn), 8-methoxypsoralen, 5-methoxypsoralen) except for normal content in natural essences used. in sun protection and in bronzing products, furocoumarines shall be below 1 mg/kg, 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).

 **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).

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## SECTION 16: REGULATORY INFORMATION

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Full text of H-phrases:

H226	Flammable liquid and vapor
H227	Combustible liquid
H304	May be fatal if swallowed and enters airways
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H319	Causes serious eye irritation
H361	Suspected of damaging fertility or the unborn child
H373	May cause damage to organs through prolonged or repeated exposure

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