



FRATERWORKS

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SAFETY DATA SHEET

Printed on 27 Jun 2023

GHS: According to 2015/830/EU

Code Number FRW-50098
Version 1 Revised 6/27/2023 9:57:07 AM

Section 1. Identification of the substance/mixture and of the company/undertaking

1.1 Product Identifier

Product Name LEMON VERBENA 893363
Code Number FRW-50098
Alternative Name
REACH Reg No Not registered

1.2 Relevant identified uses of the substance or mixture and uses advised against

Concentrated material for manufacturing purposes only

1.3 Details of the supplier of the safety data sheet

Fraterworks
P. O. Box 46009
Park Avenue
Lower Hutt 5044
New Zealand

Telephone Number Tel No. +6448893800
Email Address info@fraterworks.com

1.4 Emergency Tel No Emergency No. +6448893800

Section 2. Hazard Identification

2.1 Classification of the substance or mixture

AH 1 Aspiration hazard, category 1
SCI 2 Skin corrosion/irritation, category 2
SS 1B Skin sensitisation, category 1B
EDI 1 Eye damage/irritation, category 1
EH A1 Aquatic hazard, acute, category 1
EH C1 Aquatic hazard, chronic, category 1

2.2 Label elements

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GHS classification according to Regulation (EC) No 1272/2008

Hazard Pictograms



Signal Word Danger

Hazard Statements

- | | |
|------|--|
| 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 |
| H400 | Very toxic to aquatic life |
| H410 | Very toxic to aquatic life with long lasting effects |

Precautionary Statements

- | | |
|-----------|--|
| P302+P352 | IF ON SKIN: Wash with plenty of water. |
| P333+P313 | If skin irritation or rash occurs: Get medical advice. |
| P362+P364 | Take off contaminated clothing and wash it before reuse. |
| P501 | Dispose of contents and container to local. |

2.3 Other Hazards

Contains Citral, Citronellol, Geraniol and Limonene which may produce an allergic reaction
No further information available at this time

Section 3. Composition / information on ingredients

Any percentage values listed here for hazardous components are for illustrative purposes only

3.2 Mixtures

Complex mixture of fragrance ingredients

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Hazardous components

| ID Numbers | Chemical Name, Classification and Hazards | Conc (%) |
|---|---|-------------|
| CAS 5989-27-5 EINECS 227-813-5 REACH | d-Limonene (p-Mentha-1,8-diene) FL 4;AH 1;SCI 2;SS 1B;EH A1,C1 H227,H304,H315,H317,H400,H410 | >=25% |
| CAS 5392-40-5 EINECS 226-394-6 REACH | Citral ATD 5(2250);SCI 2;SS 1B;EDI 2A;EH A2 H313,H315,H317,H319,H401 | >=10%, <25% |
| CAS 106-24-1 EINECS 203-377-1 REACH | Geraniol (3,7-Dimethyl-2,6-octadien-1-ol) ATO 5(4200);SCI 2;SS 1;EDI 1;EH A2 H303,H315,H317,H318,H401 | >=5%, <10% |
| CAS 92908-26-4 EINECS 296-654-1 REACH | Citronellol (ex myrcene) (3,7-Dimethyl-6-octen-1-ol) ATO 5(3450);ATD 5(2650);SCI 2;SS 1B;EDI 2A;EH A2 H303,H313,H315,H317,H319,H401 | >=3%, <5% |
| CAS 586-62-9 EINECS 209-578-0 REACH | Terpinolene FL 4;ATO 5(3850);AH 1;SCI 3;SS 1B;EH A1,C1 H227,H303,H304,H316,H317,H400,H410 | >=0.1%, <1% |
| CAS 80-56-8 EINECS 201-291-9 REACH | Pinenes FL 4;ATO 5(3500);AH 1;SCI 2;SS 1B;EH A1,C1 H227,H303,H304,H315,H317,H400,H410 | >=0.1%, <1% |

Refer to section 16 for the wording of listed classification and hazard statement codes

Section 4. First Aid measures

Take phrases in section 2 into account

4.1 Description of first aid measures

After inhalation

Remove from the exposure area to fresh air. Contact a doctor if necessary.

After skin contact

Remove contaminated clothing. Wash thoroughly with soap and water. Seek medical advice if irritation persists or there is any sign of tissue damage.

After eye contact

Flush with plenty of water and seek medical advice if necessary.

After ingestion

Wash mouth with plenty of water and obtain medical advice immediately.

4.2 Most important symptoms and effects, both acute and delayed

No further information available at this time

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4.3 Indication of immediate medical attention and special treatment needed
No further information available at this time

Section 5. Fire-fighting measures

5.1 Extinguishing Media

Carbon dioxide, foam or dry powder.
DO NOT USE A DIRECT WATER JET.

5.2 Special hazards arising from the substance or mixture

May produce Carbon dioxide and unidentified organic compounds.

5.3 Advice for fire-fighters

Wear protective clothing and avoid inhalation of vapours. Keep containers cool with water spray

Section 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Remove all sources of ignition.
Avoid inhalation, skin and eye contact.
Ensure proper ventilation.

6.2 Environmental precautions

Do not discharge directly into drains or the soil. Keep away from surface and ground water

6.3 Methods and material for containment and cleaning up

Soak up spillage with sand or other inert absorbant material such as earth or vemiculite; transfer used material to a suitable waste container and dispose in accordance with regulations.

6.4 Reference to other sections

Refer to information in Sections 7, 8 and 13

Section 7. Handling and storage

7.1 Precautions for safe handling

Maintain good occupational and personal hygiene. Avoid inhalation and contact with skin and eyes.

7.2 Conditions for safe storage, including any incompatibilities

Store in tightly sealed original containers away from ignition sources and in a cool place.

7.3 Specific end use(s)

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Section 8. Exposure controls / personal protection

8.1 Control Parameters

No information

8.2 Exposure controls

Engineering controls

No information

Individual protection measures

Refer to Section 5 for specific fire/chemical personal protective equipment advice.
Always wash routinely before breaks, meals and at the end of the work period.

Eye/face protection

Wear safety goggles.

Hand protection

Wear chemically resistant disposable gloves.

Other skin protection

Wear overalls. Always wash routinely before breaks, meals and at the end of the work period.

Respiratory protection

Not generally required. Use inhalation protection in poorly ventilated areas

Thermal hazards

No information

Environmental exposure controls

No information

Section 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

FLASH POINT (°C) 135

9.2 Other information

No further information available

Section 10. Stability and reactivity

10.1 Reactivity

Not determined

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10.2 Chemical Stability

Not determined

10.3 Possibility of hazardous reactions

Not determined

10.4 Conditions to avoid

Extreme temperatures

10.5 Incompatible materials

Highly reactive chemicals which may produce unknown reaction products and so cause additional hazards.

10.6 Hazardous decomposition products

Not determined

Section 11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Caraway oil (Seed) (CAS: 8000-42-8)

Oral route: LD50 = 3200 mg/kg

Dermal route: LD50 = 1600 mg/kg

Citral (3,7-Dimethyl-2,6-octadienal) (Lemarome) (Neral/Geran) (CAS: 5392-40-5)

Dermal route: LD50 = 2250 mg/kg

Citronellol (ex myrcene) (3,7-Dimethyl-6-octen-1-ol) (CAS: 92908-26-4)

Oral route: LD50 = 3450 mg/kg

Dermal route: LD50 = 2650 mg/kg

Geraniol (3,7-Dimethyl-2,6-octadien-1-ol) (CAS: 106-24-1)

Oral route: LD50 = 4200 mg/kg

Litsea cubeba (berry) oil (CAS: 68855-99-2)

Dermal route: LD50 = 2800 mg/kg

Skin corrosion / irritation

No data

Serious eye damage / irritation

No data

Respiratory or skin sensitisation

No data

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Germ cell mutagenicity

No data

Carcinogenicity

No data

Reproductive toxicity

No data

STO-single exposure

No data

STO-repeated exposure

No data

Aspiration hazard

No data

Information on likely routes of exposure

No data

Symptoms related to the physical, chemical and toxicological characteristics

No data

Delayed and immediate effects as well as chronic effects from short and long-term exposure

No data

Interactive effects

No data

Other information

No data

Section 12. Ecological information

12.1 Toxicity

12.2 Persistence and degradability

No data

12.3 Bioaccumulative potential

No data

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12.4 Mobility in soil

No data

12.5 Results of PBT and vPvB assessment

No data

12.6 Other adverse effects

No data available

Section 13. Disposal considerations

Please refer to the information in section 8 (Exposure controls and personal protection)

13.1 Waste treatment methods

Dispose in accordance with the law and local regulations. Treat as trade effluent.

Section 14. Transport information

14.1 UN number

| | |
|------|------|
| ADR | 3082 |
| IATA | 3082 |
| IMDG | 3082 |

14.2 UN proper shipping name

| | |
|------|---|
| ADR | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (LIMONENE) |
| IATA | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (LIMONENE) |
| IMDG | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (LIMONENE) |

14.3 Transport hazard class(es)

| | |
|------|---|
| ADR | 9 |
| IATA | 9 |
| IMDG | 9 |

14.4 Packing group

| | |
|-------------|-----|
| ADR | III |
| IATA | III |
| IMDG | III |
| Tunnel Code | (E) |

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14.5 Environmental Hazards

No relevant information available

14.6 Special precautions for user

No relevant information available

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable

Section 15. Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

No relevant information available at this time

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out

Section 16. Other information

Full list of precautionary phrases

| | |
|-----------|--|
| P302+P352 | IF ON SKIN: Wash with plenty of water. |
| P333+P313 | If skin irritation or rash occurs: Get medical advice. |
| P362+P364 | Take off contaminated clothing and wash it before reuse. |
| P501 | Dispose of contents and container to local. |

Wording of any hazard classes listed in section 3

| | |
|--------|---------------------------------------|
| FL 4 | Flammable liquid, category 4 |
| ATO 5 | Acute toxicity, oral, category 5 |
| AH 1 | Aspiration hazard, category 1 |
| ATD 5 | Acute toxicity, dermal, category 5 |
| SCI 2 | Skin corrosion/irritation, category 2 |
| SCI 3 | Skin corrosion/irritation, category 3 |
| SS 1 | Skin sensitisation, category 1 |
| SS 1B | Skin sensitisation, category 1B |
| EDI 1 | Eye damage/irritation, category 1 |
| EDI 2A | Eye damage/irritation, category 2A |
| EH A1 | Aquatic hazard, acute, category 1 |
| EH A2 | Aquatic hazard, acute, category 2 |
| EH C1 | Aquatic hazard, chronic, category 1 |

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Wording of any hazard statements listed in section 3

| | |
|------|--|
| H227 | Combustible liquid |
| H303 | May be harmful if swallowed |
| H304 | May be fatal if swallowed and enters airways |
| H313 | May be harmful in contact with skin |
| H315 | Causes skin irritation |
| H316 | Causes mild skin irritation |
| H317 | May cause an allergic skin reaction |
| H318 | Causes serious eye damage |
| H319 | Causes serious eye irritation |
| H400 | Very toxic to aquatic life |
| H401 | Toxic to aquatic life |
| H410 | Very toxic to aquatic life with long lasting effects |

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