

Safety Data Sheet

acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Printing date: November 14, 2018

Revision: November 14, 2018

1 Identification

· **Product identifier**

- Trade name: **Lemon**
- Product code: FR2176

· **Recommended use and restriction on use**

- Recommended use: Fragrance
- Restrictions on use: No relevant information available.

· **Details of the supplier of the Safety Data Sheet**

· **Manufacturer/Supplier:**

FRSH SCENTS LIMITED
 RM603, 6/F HANG PONT, COMMERCIAL BUILDING
 31 TONKIN STREET, CHEUNG SHA WAN, KL
 HONG KONG
 TEL +86-20-82603966

· **Emergency telephone number:**

ChemTel Inc.
 (800)255-3924 (North America)
 +1 (813)248-0585 (International)

2 Hazard(s) identification

· **Classification of the substance or mixture**

- Flam. Liq. 4 H227 Combustible liquid.
- Skin Irrit. 2 H315 Causes skin irritation.
- Eye Irrit. 2A H319 Causes serious eye irritation.
- Skin Sens. 1 H317 May cause an allergic skin reaction.

· **Label elements**

· **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

· **Hazard pictograms:**



GHS07

· **Signal word:** Warning

· **Hazard statements:** H227

- Combustible liquid. H315
- Causes skin irritation.
- H319 Causes serious eye irritation.
- H317 May cause an allergic skin reaction.

· **Precautionary statements:**

- P210 Keep away from flames and hot surfaces. – No smoking.
- P261 Avoid breathing mist, vapors, or spray.
- P264 Wash thoroughly after handling.
- P272 Contaminated work clothing must not be allowed out of the workplace.
- P280 Wear protective gloves and eye protection.

(Cont'd. on page 2)



Safety Data Sheet

acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Printing date: November 14, 2018

Revision: November 14, 2018

Trade name: Lemon

(Cont'd. of page 1)

- P302+P352 If on skin: Wash with plenty of soap and water.
- P321 Specific treatment (see on this label).
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
- P337+P313 If eye irritation persists: Get medical advice/attention.
- P363 Wash contaminated clothing before reuse.
- P370+P378 In case of fire: Use foam, powder, or carbon dioxide for extinction.
- P403+P235 Store in a well-ventilated place. Keep cool.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Other hazards There are no other hazards not otherwise classified that have been identified.

3 Composition/information on ingredients

Chemical characterization: Mixtures

Components:

58430-94-7	3,5,5-trimethylhexyl acetate ⚠ Skin Irrit. 2, H315 ⚠ Flam. Liq. 4, H227	10-30%
120-51-4	Benzyl benzoate ⚠ Acute Tox. 4, H302	10-30%
78-70-6	Linalool ⚠ Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1B, H317 ⚠ Flam. Liq. 4, H227	10-30%
112-31-2	Decanal ⚠ Eye Irrit. 2A, H319 ⚠ Flam. Liq. 4, H227	1-5%
124-13-0	octanal ⚠ Flam. Liq. 3, H226 ⚠ Skin Irrit. 2, H315; Eye Irrit. 2A, H319	1-5%
2705-87-5	Allyl cyclohexanepropionate ⚠ Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Sens. 1, H317	1-5%
5392-40-5	Citral ⚠ Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1B, H317	1-5%
8008-56-8	Lemon oil ⚠ Flam. Liq. 3, H226 ⚠ Asp. Tox. 1, H304 ⚠ Skin Irrit. 2, H315; Skin Sens. 1, H317	1-5%
124-19-6	nonanal ⚠ Skin Irrit. 2, H315 ⚠ Flam. Liq. 4, H227	1-5%
150-84-5	Citronellyl acetate ⚠ Skin Irrit. 2, H315	1-5%
7452-79-1	ethyl 2-methylbutyrate	0-1%

(Cont'd. on page 3)



Safety Data Sheet

acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Printing date: November 14, 2018

Revision: November 14, 2018

Trade name: Lemon

(Cont'd. of page 2)

	Flam. Liq. 3, H226	
10482-56-1	p-Menth-1-en-8-ol (S) Skin Irrit. 2, H315; Eye Irrit. 2A, H319; STOT SE 3, H335 Flam. Liq. 4, H227	0-1%
507-70-0	Borneol Flam. Sol. 2, H228	0-1%

Additional information:

For the listed ingredient(s), the identity and/or exact percentage(s) are being withheld as a trade secret.
For the wording of the listed Hazard Statements, refer to section 16.

4 First-aid measures

Description of first aid measures

· **After inhalation:** Supply fresh air; consult doctor in case of complaints.

After skin contact:

Immediately wash with water and soap and rinse thoroughly.
If skin irritation or rash occurs: Get medical advice/attention.

After eye contact:

Protect unharmed eye.
Remove contact lenses if worn.
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

After swallowing:

Rinse out mouth and then drink plenty of water.
Do not induce vomiting; immediately call for medical help.

Most important symptoms and effects, both acute and delayed:

Allergic reactions
Irritating to eyes and skin.
Gastric or intestinal disorders when ingested.

Danger:

May be harmful if swallowed.
Sensitizing effect by skin contact is possible with prolonged exposure.

Indication of any immediate medical attention and special treatment needed:

Medical supervision for at least 48 hours.
Treat skin and mucous membrane with antihistamine and corticoid preparations.
Contains Allyl cyclohexanepropionate, Citral, Lemon oil. May produce an allergic reaction.
If medical advice is needed, have product container or label at hand.

5 Fire-fighting measures

Extinguishing media**Suitable extinguishing agents:**

Alcohol resistant foam
Gaseous extinguishing agents
Carbon dioxide
Fire-extinguishing powder
Water fog / haze

· **For safety reasons unsuitable extinguishing agents:** Water stream.

(Cont'd. on page 4)



Safety Data Sheet

acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Printing date: November 14, 2018

Revision: November 14, 2018

Trade name: Lemon

(Cont'd. of page 3)

- **Special hazards arising from the substance or mixture**
 - Combustible liquid.
 - Formation of toxic gases is possible during heating or in case of fire.
- **Advice for firefighters**
- **Protective equipment:**
 - Wear self-contained respiratory protective device.
 - Wear fully protective suit.
- **Additional information:**
 - Eliminate all ignition sources if safe to do so.
 - Use large quantities of foam as it is partially destroyed by the product.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
 - Ensure adequate ventilation.
 - Keep away from ignition sources.
 - For large spills, wear protective clothing.
 - For large spills, use respiratory protective device against the effects of fumes/dust/aerosol.
- **Environmental precautions**
 - Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **Methods and material for containment and cleaning up**
 - Absorb with non-combustible liquid-binding material (sand, diatomite, acid binders, universal binders).
 - Send for recovery or disposal in suitable receptacles.
- **Reference to other sections**
 - See Section 7 for information on safe handling.
 - See Section 8 for information on personal protection equipment.
 - See Section 13 for disposal information.

7 Handling and storage

- **Handling**
- **Precautions for safe handling:**
 - Prevent formation of aerosols.
 - Avoid splashes or spray in enclosed areas.
 - Use only in well ventilated areas.
- **Information about protection against explosions and fires:**
 - Combustible liquid.
 - Keep ignition sources away - Do not smoke.
 - Protect from heat.
- **Conditions for safe storage, including any incompatibilities**
- **Requirements to be met by storerooms and receptacles:**
 - Avoid storage near extreme heat, ignition sources or open flame.
- **Information about storage in one common storage facility:**
 - Store away from foodstuffs.
 - Store away from oxidizing agents.
- **Further information about storage conditions:** Keep containers tightly sealed.

(Cont'd. on page 5)

Safety Data Sheet

acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Printing date: November 14, 2018

Revision: November 14, 2018

Trade name: Lemon

· **Specific end use(s)** No relevant information available.

(Cont'd. of page 4)

8 Exposure controls/personal protection

· **Control parameters**

· **Components with limit values that require monitoring at the workplace:**

5392-40-5 Citral

TLV (USA) Long-term value: 32* mg/m³, 5* ppm
Skin; DSEN; *inhalable fraction + vapor

LMPE (Mexico) Long-term value: 5 ppm
A4, PIEL, SEN, IFV

· **Exposure controls**

· **General protective and hygienic measures:**

The usual precautionary measures for handling chemicals should be followed.
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Do not inhale gases / fumes / aerosols.
Avoid contact with the eyes and skin.

· **Engineering controls:** Provide adequate ventilation.

· **Breathing equipment:** Use suitable respiratory protective device in case of insufficient ventilation.

· **Protection of hands:**



Protective gloves

· **Material of gloves**

Nitrile rubber, NBR
Neoprene gloves
Butyl rubber, BR

· **Eye protection:**



Safety glasses

Follow relevant national guidelines concerning the use of protective eyewear.

· **Body protection:** Protective work clothing

· **Limitation and supervision of exposure into the environment**

No relevant information available.

· **Risk management measures** No relevant information available.

9 Physical and chemical properties

· **Information on basic physical and chemical properties**

· **Appearance:**

(Cont'd. on page 6)

**Safety Data Sheet**

acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Printing date: November 14, 2018

Revision: November 14, 2018

Trade name: Lemon

(Cont'd. of page 5)

· Form:	Liquid
· Color:	According to product specification
· Odor:	Pleasant
· Odor threshold:	Not determined.
· pH-value:	Not determined.
· Melting point/Melting range:	Not determined.
· Boiling point/Boiling range:	Not determined.
· Flash point:	>65 °C (>149 °F)
· Flammability (solid, gaseous):	Not applicable.
· Auto-ignition temperature:	200 °C (392 °F)
· Decomposition temperature:	Not determined.
· Danger of explosion:	Not determined.
· Explosion limits	
· Lower:	Not determined.
· Upper:	Not determined.
· Oxidizing properties:	Not determined.
· Vapor pressure at 20 °C (68 °F):	0 hPa (0 mm Hg)
· Density at 20 °C (68 °F):	0.88-0.9 g/cm ³ (7.34-7.51 lbs/gal)
· Relative density:	Not determined.
· Vapor density:	Not determined.
· Evaporation rate:	Not determined.
· Solubility in / Miscibility with Water:	Not miscible or difficult to mix.
· Partition coefficient (n-octanol/water):	Not determined.
· Viscosity	
· Dynamic:	Not determined.
· Kinematic:	Not determined.
· Other information	No relevant information available.

10 Stability and reactivity

- **Reactivity:** No relevant information available.
- **Chemical stability:** Stable under normal temperatures and pressures.
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used and stored according to specifications.
- **Possibility of hazardous reactions**
Combustible liquid.
Reacts with oxidizing agents.
Used empty containers may contain product gases which form explosive mixtures with air.
Can form explosive mixtures in air if heated above flash point and/or when sprayed or atomized.
Toxic fumes may be released if heated above the decomposition point.
- **Conditions to avoid** Excessive heat.

(Cont'd. on page 7)

**Safety Data Sheet**

acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Printing date: November 14, 2018

Revision: November 14, 2018

Trade name: Lemon

(Cont'd. of page 6)

- **Incompatible materials** No relevant information available.
- **Hazardous decomposition products**
Under fire conditions only:
Carbon monoxide and carbon dioxide

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:** May be harmful if swallowed.

· **LD/LC50 values that are relevant for classification:****ATE (Acute Toxicity Estimate)**

Oral LD50 >3000 mg/kg

120-51-4 Benzyl benzoate

Oral LD50 1700 mg/kg (rat)

Dermal LD50 4000 mg/kg (rabbit)

112-31-2 Decanal

Oral LD50 3730 mg/kg (rat)

Dermal LD50 5040 mg/kg (rabbit)

124-13-0 octanal

Oral LD50 5630 mg/kg (rat)

Dermal LD50 6350 mg/kg (rabbit)

2705-87-5 Allyl cyclohexanepropionate

Oral LD50 380 mg/kg (guinea pig)

585 mg/kg (rat)

Dermal LD50 1600 mg/kg (rabbit)

- **Primary irritant effect:**
- **On the skin:** Irritant to skin and mucous membranes.
- **On the eye:** Causes serious eye irritation.
- **Sensitization:** Sensitization possible through skin contact.

· **IARC (International Agency for Research on Cancer):**

None of the ingredients are listed.

· **NTP (National Toxicology Program):**

None of the ingredients are listed.

· **OSHA-Ca (Occupational Safety & Health Administration):**

None of the ingredients are listed.

· **Probable route(s) of exposure:**

Ingestion.
Inhalation.
Eye contact.
Skin contact.

· **Acute effects (acute toxicity, irritation and corrosivity):**

Irritating to eyes and skin.
May be harmful if swallowed.

(Cont'd. on page 8)



Safety Data Sheet

acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Printing date: November 14, 2018

Revision: November 14, 2018

Trade name: Lemon

(Cont'd. of page 7)

- **Repeated dose toxicity:** May cause sensitisation by skin contact.
- **Germ cell mutagenicity:** Based on available data, the classification criteria are not met.
- **Carcinogenicity:** Based on available data, the classification criteria are not met.
- **Reproductive toxicity:** Based on available data, the classification criteria are not met.
- **STOT-single exposure:** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure:** Based on available data, the classification criteria are not met.
- **Aspiration hazard:** Based on available data, the classification criteria are not met.

12 Ecological information

- **Toxicity**
- **Aquatic toxicity** Toxic for aquatic organisms
- **Persistence and degradability** No relevant information available.
- **Bioaccumulative potential:** No relevant information available.
- **Mobility in soil:** No relevant information available.
- **Additional ecological information**
- **General notes:** Do not allow product to reach ground water, water course or sewage system.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No relevant information available.

13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:**
The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes.
- **Uncleaned packagings**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- **UN-Number**
- **DOT** Not regulated.
- **ADR/RID/ADN, IMDG, IATA** UN3082
- **UN proper shipping name**
- **DOT** Not regulated.
- **ADR/RID/ADN, IMDG, IATA** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Lemon oil, Allyl cyclohexanepropionate)
- **Transport hazard class(es)**

(Cont'd. on page 9)

Safety Data Sheet



acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Printing date: November 14, 2018

Revision: November 14, 2018

Trade name: Lemon

(Cont'd. of page 8)

<ul style="list-style-type: none"> · DOT · Class 	Not regulated.
<ul style="list-style-type: none"> · ADR/RID/ADN <div style="display: flex; justify-content: space-around; align-items: center;">  </div> <ul style="list-style-type: none"> · Class · Label 	<p style="margin: 0;">9 (M6)</p> <p style="margin: 0;">9</p>
<ul style="list-style-type: none"> · IMDG, IATA <div style="display: flex; justify-content: space-around; align-items: center;">  </div> <ul style="list-style-type: none"> · Class · Label 	<p style="margin: 0;">9</p> <p style="margin: 0;">9</p>
<ul style="list-style-type: none"> · Packing group · DOT · ADR/RID/ADN, IMDG, IATA 	<p style="margin: 0;">Not regulated.</p> <p style="margin: 0;">III</p>
<ul style="list-style-type: none"> · Environmental hazards · Marine pollutant: 	<p style="margin: 0;">Product contains environmentally hazardous substances: Allyl cyclohexanepropionate, Lemon oil</p> <p style="margin: 0;">Symbol (fish and tree)</p>
<ul style="list-style-type: none"> · Special precautions for user · Danger code (Kemler): · EMS Number: 	<p style="margin: 0;">Warning: Miscellaneous dangerous substances and articles</p> <p style="margin: 0;">90</p> <p style="margin: 0;">F-A,S-F</p>
<ul style="list-style-type: none"> · Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code 	Not applicable.
<ul style="list-style-type: none"> · Transport/Additional information: 	<p style="margin: 0;">Not regulated when carried in single or combination packaging containing a net quantity of 5 L or less for liquids or 5 kg or less for solids per the following:</p> <p style="margin: 0;">ADR: SP 375</p> <p style="margin: 0;">IMDG: 2.10.2.7</p> <p style="margin: 0;">IATA: special provision A197</p>
<ul style="list-style-type: none"> · DOT · Remarks: 	<p style="margin: 0;">Transport labeling is not required for non-bulk single package shipments by motor vehicle, rail car or aircraft. Bulk packaging consists of a maximum capacity of greater than 450L (119 gallons) for a liquid and a maximum net mass greater than 400kg (882 pounds) for a solid.</p>

15 Regulatory information

(Cont'd. on page 10)



Safety Data Sheet

acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Printing date: November 14, 2018

Revision: November 14, 2018

Trade name: Lemon

(Cont'd. of page 9)

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

- **United States (USA)**
- **SARA**

· **Section 302 (extremely hazardous substances):**

None of the ingredients are listed.

· **Section 355 (extremely hazardous substances):**

None of the ingredients are listed.

· **Section 313 (Specific toxic chemical listings):**

None of the ingredients are listed.

· **TSCA (Toxic Substances Control Act)**

All ingredients are listed.

· **Proposition 65 (California)**

· **Chemicals known to cause cancer:**

None of the ingredients are listed.

· **Chemicals known to cause developmental toxicity for females:**

None of the ingredients are listed.

· **Chemicals known to cause developmental toxicity for males:**

None of the ingredients are listed.

· **Chemicals known to cause developmental toxicity:**

None of the ingredients are listed.

· **EPA (Environmental Protection Agency):**

None of the ingredients are listed.

· **IARC (International Agency for Research on Cancer):**

None of the ingredients are listed.

· **Canadian Domestic Substances List (DSL) (Substances not listed.):**

All ingredients are listed.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Abbreviations and acronyms:**

- ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
- IMDG: International Maritime Code for Dangerous Goods
- DOT: US Department of Transportation
- IATA: International Air Transport Association
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent
- PBT: Persistent, Bio-accumulable, Toxic
- vPvB: very Persistent and very Bioaccumulative
- OSHA: Occupational Safety & Health Administration
- Flam. Liq. 3: Flammable liquids – Category 3

(Cont'd. on page 11)

**Safety Data Sheet**

acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Printing date: November 14, 2018

Revision: November 14, 2018

Trade name: Lemon

(Cont'd. of page 10)

Flam. Liq. 4: Flammable liquids – Category 4
Flam. Sol. 2: Flammable solids – Category 2
Acute Tox. 4: Acute toxicity – Category 4
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A
Skin Sens. 1: Skin sensitisation – Category 1
Skin Sens. 1B: Skin sensitisation – Category 1B
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
Asp. Tox. 1: Aspiration hazard – Category 1

Sources

Website, European Chemicals Agency (echa.europa.eu)
Website, US EPA Substance Registry Services (ofmpub.epa.gov/sor internet/registry/substreg/home/overview/home.do)
Website, Chemical Abstracts Registry, American Chemical Society (www.cas.org)
Patty's Industrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: 978-0-470-07488-6
Casarett and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaasen, Curtis D., ed., ISBN: 978-0-07-176923-5.
Safety Data Sheets, Individual Manufacturers

SDS Prepared by:

ChemTel Inc.

1305 North Florida Avenue

Tampa, Florida USA 33602-2902

Toll Free North America 1-888-255-3924 Intl. +01 813-248-0573

Website: www.chemtelinc.com