

## 0020 – Lemon Oil, Natural

### Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revised: 05/10/2018 Version: 3

#### SECTION 1: Identification of the substance/mixture and of the company/undertaking

##### 1.1. Product identifier

Product name : 0020 – Lemon Oil, Natural  
CAS Number : 8008-56-8

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

Use of the substance/mixture : Food industry: component

##### 1.3. Details of the supplier of the safety data sheet

LorAnn Oils, Inc.  
4518 Aurelius Road  
Lansing, MI 48910  
Telephone: 1.800.862.8620

##### 1.4. Emergency telephone number

Emergency number : CHEMTREC: Within USA and Canada: 1.800.424.9300 Outside USA and Canada: +1 703 527 3887

#### SECTION 2: Hazards identification

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

Flammable liquid. 3	H226 Flammable liquid and vapor.
Aspiration toxic 1	H304 May be fatal if swallowed and enters airways.
Skin irritation. 2	H315 Causes skin irritation.
Skin sensitivity 1	H317 May cause an allergic skin reaction.

##### 2.2. Label elements

GHS label elements: The substance is classified and labeled according to the Globally Harmonized System (GHS).

Hazard pictograms :



Signal word (GHS-US) : Danger

Hazard-determining components of labeling : LEMON OIL  
Hazard statements (GHS-US) : Flammable liquid and vapor  
Causes skin irritation

Precautionary statements (GHS-US) :

- May cause an allergic skin reaction
- May be fatal if swallowed and enters airways
- Keep away from heat/sparks/open flames/hot surfaces. – No smoking.
- Use explosion-proof electrical/ventilating/lighting/equipment.
- Avoid breathing dust/fume/gas/mist/vapors/spray
- Wear protective gloves / protective clothing / eye protection / face protection.
- Ground/bond container and receiving equipment.
- Keep container tightly closed.
- Use only non-sparking tools.
- Take precautionary measures against static discharge.
- Wash thoroughly after handling.
- Contaminated work clothing must not be allowed out of the workplace.
- If swallowed: Immediately call a poison center/doctor.

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/ shower.  
Specific treatment (see on this label).  
Wash contaminated clothing before reuse.  
If skin irritation or rash occurs: Get medical advice/attention.  
Do NOT induce vomiting.  
In case of fire: Use for extinction: CO<sub>2</sub>, powder or water spray.  
Take off contaminated clothing and wash it before reuse.  
Store locked up.  
Store in a well-ventilated place. Keep cool.  
Dispose of contents/container in accordance with local/regional/national/international regulations.

## Classification System

NFPA rating (scale 0–4)

Health = 1

Fire = 2

Reactivity = 0

HMIS-ratings (scale 0-4)

Health = 1

Fire = 2

Reactivity = 0

## 2.3. Other hazards

Results of PBT and vPvB assessment

PBT: *Not applicable*

vPvB: *Not applicable*

## SECTION 3: Composition/information on ingredients :

**Chemical Characterization:** Substances

**CAS No. Description:** 8008-56-8 LEMON OIL

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

General information	: Immediately remove any clothing soiled by the product.
First-aid measures after inhalation	: Supply fresh air and be sure to call for doctor.
First-aid measures after skin contact	: Immediately wash with water and soap and rinse thoroughly.
First-aid measures after eye contact	: Rinse opened eye for several minutes under running water.
First-aid measures after ingestion	: If symptoms persist consult doctor.

### 4.2. Indication of any immediate medical attention and special treatment needed

**Information for doctor:**

Most important symptoms and effects, both acute and delayed : *No further relevant information available.*

Indication of any immediate medical attention and special treatment needed: *No further relevant information available.*

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media	: CO <sub>2</sub> , extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
For safety reasons unsuitable extinguishing agents	: Water with full jet.

### 5.2. Special hazards arising from the substance or mixture

No further relevant information available.

### 5.3. Advice for firefighters

Protection equipment : No special measures required.

## SECTION 6: Accidental release measures

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

Wear protective equipment. Keep unprotected persons away.

### 6.2. Environmental precautions

Do not allow to enter sewers/surface or ground water.

## 6.3. Methods and material for containment and cleaning up

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose contaminated material as waste according to item 13.  
Ensure adequate ventilation.

## 6.4. 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.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation/exhaustion at the workplace.  
Prevent formation of aerosols.  
Information about protection against explosions and fires : Keep ignition sources away – Do not smoke.  
Protect against electrostatic charges.

### 7.2. Conditions for safe storage, including any incompatibilities

Storage  
Requirements to be met by storerooms and receptacles : Store in tightly sealed containers in a cool, dry place that is well ventilated. Away from heat, spark, and open flame.  
Information about storage in one common storage facility : Not required.  
Further information about storage conditions : Keep receptacle tightly sealed.

### 7.3. Specific end use(s)

No further relevant information available.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

Additional information about design of technical systems: *No further data; see item 7*  
Components with limit values that require monitoring at the workplace: *Not required.*  
Additional information: *The lists that were valid during the creation were used as basis.*

### 8.2. Exposure controls

Personal protective equipment  
General protective and hygienic measures : Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing.  
Wash hands before breaks and at the end of work.  
Hand protection : Protective Gloves: The glove material has to be impermeable and resistant to the product/the substance/the preparation. Due to missing tests no recommendation to the glove material can be given for the product; the preparation; the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.  
Material of gloves : The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.  
Penetration time of glove material : The exact break through time has to be found out by the manufacture of the protective gloves and has to be observed.  
Respiratory protection : In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.  
Eye protection : Tightly sealed goggles.

## SECTION 9: Physical and chemical properties

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

Physical state : Liquid  
Color : Light green  
Odor : Characteristic  
Odor threshold : Not determined  
pH : Not determined  
Relative evaporation rate (butyl acetate=1) : No data available

Melting point	: Undetermined
Freezing point	: No data available
Boiling point	: Undetermined
Flash point	: 109 °F
Auto-ignition temperature	: Not determined
Decomposition temperature	: Not determined
Flammability (solid, gas)	: Not applicable
Vapor pressure	: Not determined
Vapor pressure at 20 °C	: Not determined
Relative density	: Not determined
Density @ 20°C (68°F):	: 0.85165 g/cm <sup>3</sup> (7.10702 lbs.gal)
Solubility	: Not miscible or difficult to mix
Organic solvents	: 0.0%
Viscosity, dynamic	: Not determined
Explosive properties	: Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
Solids content	: Not determined
Explosive limits	: Not determined

## 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No further relevant information available.

### 10.2. Chemical stability

### 10.3. Possibility of hazardous reactions

No dangerous reactions known.

### 10.4. Conditions to avoid

No further relevant information available.

### 10.5. Incompatible materials

No further relevant information available.

### 10.6. Hazardous decomposition products

No dangerous decomposition products known.

### 10.7. Thermal decomposition / conditions to be avoided

No decomposition if used according to specifications.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Carcinogenic categories:

<b>IARC (International Agency for Research on Cancer)</b>	
Substance is not listed	
<b>NTP (National Toxicology Program)</b>	
Substance is not listed.	
<b>OSHA-Ca (Occupational Safety &amp; Health Administration)</b>	
Substance is not listed.	

Primary irritant effect on the skin	: No irritant effect
Primary irritant effect on the eye	: No irritating effect.
Sensitization	: Sensitization possible through skin contact.

## SECTION 12: Ecological information

### 12.1. Toxicity

Aquatic toxicity : No further relevant information available

Persistence and degradability : No further relevant information available

### 12.2. Behavior in environmental systems

Bioaccumulative potential : No further relevant information available

Mobility in soil : No further relevant information available

### 12.3. Additional Ecological Information

General notes:

Water hazard class 3 (Self-assessment):extremely hazardous for water. Do not allow product to reach ground water, water course or sewage system, even in small quantities. Danger to drinking water if even extremely small quantities leak into the ground.

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

Other adverse effects: No further relevant information available.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste disposal recommendations : Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Uncleaned packagings recommendation : Disposal must be made according to official regulations.

## SECTION 14: Transport information

UN-Number DOT IMDG,IATA	<i>Not regulated</i> <i>UN1197</i>
UN <i>proper shipping name</i> DOT IMDG IATA	<i>Not regulated</i> <i>EXTRACTS, FLAVOURING, LIQUID, MARINE POLLUTANT</i> <i>EXTRACTS, FLAVOURING, LIQUID</i>
<i>Transport hazard class(es)</i> DOT <i>Class</i>	<i>Not regulated</i>
IMDG <i>Class</i> <i>Label</i>	<i>3 Flammable liquids</i> <i>3</i>
IATA <i>Class</i> <i>Label</i>	<i>3 Flammable liquids</i> <i>3</i>
<i>Packing Group</i> DOT IMDG, IATA	<i>Not regulated</i> <i>III</i>
<i>Environmental hazards:</i> <i>Marine pollutant:</i>	<i>Yes</i> <i>Symbol (fish and tree)</i>
<i>Special precautions for user</i> <i>Danger code (Kemler):</i> <i>EMS Number</i> <i>Stowage Category</i>	<i>Warning: Flammable liquids</i> <i>30</i> <i>F-E, S-D</i> <i>A</i>
<i>Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</i>	<i>Not applicable</i>
<i>Transport/Additional information:</i>	
IMDG Limited quantities (LQ) Excepted quantities (EQ)	<i>5L</i> <i>Code: E1</i> <i>Maximum net quantity per inner packaging: 30 ml</i> <i>Maximum net quantity per outer packaging: 1000 ml</i>
UN "Model Regulation"	<i>UN 1197, EXTRACTS, FLAVORING, LIQUID, 3, III,</i> <i>ENVIRONMENTALLY HAZARDOUS</i>

## SECTION 15: Regulatory information

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

### Sara

#### Section 355 (extremely hazardous substances):

Substance is not listed.

#### Section 313 (Specific toxic chemical listings):

Substance is not listed.

#### TSCA (Toxic Substances Control Act)

Substance is listed.

### Proposition 65

#### Chemicals know to cause cancer:

Substance is not listed.

#### Chemicals known to cause reproductive toxicity for females:

Substance is not listed.

## Chemicals known to cause reproductive toxicity for males:

Substance is not listed.

## Chemicals known to cause developmental toxicity:

Substance is not listed.

## Carcinogenic categories

### EPA (Environmental Protection Agency)

Substance is not listed.

### TLV (Threshold Limit Value established by ACGIH)

Substance is not listed.

### NIOSH-Ca (National Institute for Occupational Safety and Health)

Substance is not listed.

- **GHS label elements:** The substance is classified and labelled according to the Globally Harmonized System (GHS).

- **Hazard pictograms:**



GHS02



GHS07



GHS08

- **Signal word:** Danger
- **Hazard-determining components of labelling:**  
LEMON OIL
- **Hazard statements:**
  - Flammable liquid and vapor.
  - Causes skin irritation.
  - May cause an allergic skin reaction.
  - May be fatal if swallowed and enters airways.
- **Precautionary statements:**
  - Keep away from heat/sparks/open flames/hot surfaces. – No smoking.
  - Use explosion-proof electrical/ventilating/lighting/equipment.
  - Avoid breathing dust/fume/gas/mist/vapors/spray
  - Wear protective gloves / eye protection / face protection.
  - Wear protective gloves.
  - Ground/bond container and receiving equipment.
  - Keep container tightly closed.
  - Use only non-sparking tools.
  - Take precautionary measures against static discharge.
  - Wash thoroughly after handling.
  - Contaminated work clothing must not be allowed out of the workplace.
  - If swallowed: Immediately call a poison center/doctor.
  - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/ shower.
  - Specific treatment (see on this label).
  - Wash contaminated clothing before reuse.
  - If skin irritation or rash occurs: Get medical advice/attention.
  - Do NOT induce vomiting.
  - In case of fire: Use for extinction: CO<sub>2</sub>, powder or water spray.
  - Take off contaminated clothing and wash it before reuse.
  - Store locked up.
  - Store in a well-ventilated place. Keep cool.
  - Dispose of contents/container in accordance with local/regional/national/international regulations.
- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

## SECTION 16: Other information

### Other information

: **DISCLAIMER OF LIABILITY** The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.

- **Department issuing SDS:** *Environment protection department.*

- **Date of preparation / last revision:** *05/10/2018*

- **Abbreviations and acronyms:**

*ADR: Accord europeen sur le transport des marchandises dangereuses par Route (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*

*ACGIH: American Confernece of Governmental Industrial Hygienists*

*EINECS: European Inventory of Exisiting Commercial Chemical Substances*

*CAS: Chemical Abstracts Service (division of the American Chemical Society)*

*NFPA: Natinal Fire Protection Association (USA)*

*HMIS: Hazardous Materials Identification System (USA)*

*VOC: Volatile Organic ompounds (USA,EU)*

*PBT: Persistent, Bioaccumulative and Toxic*

*VPvB: very Persistent and very Bioaccumulative*

*NIOSH: National Institute for Occupational Safety*

*OSHA: Occupational Safety & Health*

*TLV: Threshold Limit Value*

*PEL: Permissible Exposure Limit*

*REL: Recommended Exposure Limit*

*Flam. Liq. 3: Flammable liquids, Category 3*

*Skin Irrit. 2: Skin corrosion/irritation, Category 2*

*Skin Sens. 1: Skin sensitisation – Category 1*

*Asp. Tox. 1: Aspiration hazard, Category 1*