

0110 – Lime Oil, Natural

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations
Date of issue: 02/01/2022 Version: 5

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

1.1. Product identifier

Product name : 0110 – Lime Oil, Natural and Artificial
CAS Number : 8008-26-2

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 hazard 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 :



GHS02



GHS07



GHS08

Signal word (GHS-US) : Danger

Hazard statements (GHS-US) : Flammable liquid and vapor
Causes skin irritation
May cause an allergic skin reaction
May be fatal if swallowed and enters airways

Precautionary statements (GHS-US) : 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: CO2, 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.

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: 8008-26-2 OIL LIME DISTILLED W.I..

Full text of H-phrases: see section 16

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 a 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	: CO2, 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 during firefighting : 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 : Recommended Storage Conditions: Store/Ship in a closed container in a dry place away from direct sunlight at 60-85 deg F.
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 container tightly sealed.
Specific end use(s) : No further relevant information available.

7.3. Specific end use(s)

No further relevant information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

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/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 : Yellow
- 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 : 93.2°F
- Flash point : 115 °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):	: 0.85896 g/cm ³ (7.16802 lbs/gal)
Solubility	: Not miscible in water or difficult to mix
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:

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

Skin corrosion/irritation	: No irritant effect
Serious eye damage/irritation	: 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 proeuct 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 UN1197

UN proper shipping name

DOT Extracts, flavoring, liquid
IMDG EXTRACTS, FLAVOURING, LIQUID (Lime Oil), MARINE POLLUTANT
IATA EXTRACTS, FLAVOURING, LIQUID

Transport hazard class(es)

DOT



Class 3 Flammable liquids
Label 3

IMDG



Class 3 Flammable liquids
Label 3

IATA



Class 3 Flammable liquids
Label 3

Packing group

DOT, IMDG, IATA III

Environmental hazards: Product contains environmentally hazardous substances: LIME OIL
Marine pollutant: Symbol (fish and tree)

Special precautions for user: Warning: Flammable liquids
Danger code (Kemler): 30
EMS Number: F-E, S-D
Stowage category A

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not applicable

Transport/Additional information:

DOT

Quantity limitations On passenger aircraft/rail: 60 L
On cargo aircraft only: 220 L

IMDG

Limited quantities (LQ) 5L
Excepted quantities (EQ) Code: E1
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 1000 ml

UN "Model Regulation" UN 1197 EXTRACTS, FLAVOURING, LIQUID, 3, III, ENVIRONMENTALLY HAZARDOUS

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) (Substances not listed):

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 developemental 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 (Natal 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 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: CO2, 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.

- **Relevant phrases**

H225 Highly flammable liquid and vapor.
H302 Harmful if swallowed.
H315 Causes skin irritation.
H320 Causes eye irritation.
H335 May cause respiratory irritation.

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

- **Date of preparation / last revision:** *01/18/2019*

- **Abbreviations and acronyms:**

ADR: Accord European 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 Conference of Governmental Industrial Hygienists
EINECS: European Inventory of Existing Commercial Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
VOC: Volatile Organic Compounds (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, Hazard Category 3
Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
Skin Irrit. 1: Sensitisation – Skin, Hazard Category 1
Asp. Tox. 1: Aspiration hazard, Hazard Category 1