

0080 – Clove Leaf Oil

Safety Data Sheet

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

Date of issue: 04/12/18 Version: 3

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

1.1. Product identifier

Product name : 0080 – Clove Leaf Oil
CAS Number : 8000-34-8

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

Asp. Tox 1 H304 May be fatal if swallowed and enters airways.
ATO 5 H303 May be harmful if swallowed.
Skin Irrit. 2 H315 Causes skin irritation.
SCI 3 H316 Causes mild skin irritation.
EH A2 H401 Toxic to aquatic life.
Eye Irrit. 2A H319 Causes serious eye irritation.
Skin Sens. 1 H317 May cause an allergic skin reaction.
STOT SE 3 H335 May cause respiratory irritation.

2.2. Label elements

GHS-US labeling

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

Hazard pictograms :



Signal word (GHS-US) : Danger

Hazard-determining components of labeling : Clove Leaf Oil

Hazard statements (GHS-US) : Causes skin irritation
Causes serious eye irritation
May cause an allergic skin reaction
May cause respiratory irritation
May be fatal if swallowed and enters the airway
Precautionary statements (GHS-US) : Avoid breathing dust/fume/gas/mist/vapors/spray
Avoid release to the environment
Do NOT induce vomiting.
Wear protective gloves / protective clothing / eye protection / face protection
If on skin: Wash with plenty of soap and water.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
Do not eat/drink or smoke when using this product
Use only outdoors or in a well-ventilated area
If swallowed: Immediately call a poison center/doctor

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Call a poison center/doctor if you feel unwell.
Specific treatment (see on this label)
Take off contaminated clothing.
If skin irritation occurs: Get medical advice/attention.
If eye irritation persists: Get medical advice/attention.
If on skin: Wash with plenty of water.
Store locked up.
Store in a well-ventilated place. Keep container tightly closed.
Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3. Other hazards

NFPA ratings (scale 0-4)

Health = 2

Fire = 1

Reactivity = 0

HMIS-ratings (scale 0-4)

Health = 2

Fire = 2

Reactivity = 0

Results of PBT and vPvB assessment

PBT: *Not applicable*

vPvB: *Not applicable*

SECTION 3: Composition/information on ingredients :

Chemical Characterization: *Substances*

CAS No. Description: *8000-34-8 Clove Leaf Oil*

SECTION 4: First aid measures

4.1. Description of first aid measures

General Information:

Immediately remove any clothing soiled by the product.

After Inhalation:

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

After skin contact: Immediately wash with water and soap and rinse thoroughly.

After eye contact: Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

After swallowing: Do not induce vomiting. If symptoms persist consult doctor.

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.

Fight larger fires with water spray or alcohol resistant foam.

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

Not required

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 : No special measures required.

7.2. Conditions for safe storage, including any incompatibilities

Storage : Store in tightly sealed containers in a cool, dry place that is well ventilated. Away from heat, spark, and open flame.
Keep receptacle tightly sealed.

7.3. Specific end use(s)

No further relevant information available.

SECTION 8: Exposure controls/personal protection

Additional information about design of technical systems : No further data; see item 7.

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.

Exposure Controls

Personal protective equipment :
General protective and hygienic measures : Keep away from foodstuff, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Avoid contact with eyes.
Avoid contact with the eyes and skin.

Hand protection : 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.
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.

Material of the 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.

| | |
|---------------------|---|
| Breathing equipment | : 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 |

8.2. Exposure controls

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

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|---|---|
| Physical state | : Liquid |
| Color | : Colorless to yellow |
| Odor | : Spicy, phenolic, sweet, clove spice |
| Odor threshold | : Not determined |
| pH | : Not determined |
| Relative evaporation rate (butyl acetate=1) | : Not determined |
| Melting point | : Not determined |
| Freezing point | : No data available |
| Boiling point | : Not determined |
| Flash point | : >199°F |
| Auto-ignition temperature | : Not determined |
| Decomposition temperature | : Not determined |
| Flammability (solid, gas) | : Not applicable |
| Vapor pressure | : Not determined |
| Vapor pressure at 20 °C | : No data available |
| Relative density | : Not determined |
| Density at 20 °C | : 1.04249 g/cm ³ (8.69958 lbs/gal) |
| Solubility | : Not miscible or difficult to mix |
| Organic solvents | : 0.0% |
| VOC content | : No data available |
| Viscosity, dynamic | : Not determined |
| Explosive properties | : Product does not present an explosion hazard. |
| Oxidizing properties | : No data available |
| Solids content | : No data available |
| 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. Thermal decomposition / conditions to be avoided

No decomposition if used according to specifications.

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.

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.

Primary irritant effect:

On the skin : No irritant effect
On the eye : 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 1 (Self-assessment): slightly hazardous for water. Do not allow undiluted product or large quantities of it 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 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 packaging recommendation : Disposal must be made according to official regulations.

SECTION 14: Transport information

| | |
|--|-----------------------|
| UN-Number DOT, ADN, IMDG, IATA | <i>Not regulated</i> |
| UN proper shipping name DOT, ADN, IMDG, IATA | <i>Not regulated</i> |
| Transport hazard class(es) DOT, ADN, IMDG, IATA Class | <i>Not regulated</i> |
| Packing Group DOT, IMDG, IATA | <i>Not regulated</i> |
| Environmental hazards: Marine pollutant: | <i>No</i> |
| Special precautions for user | <i>Not applicable</i> |
| Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code | <i>Not applicable</i> |
| UN "Model Regulation" | <i>Not regulated</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 not listed.

Proposition 65

Chemicals known 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 product is classified and labelled according to the Globally Harmonized System (GHS).

- **Hazard pictograms:**



- **Signal word:** Danger

- **Hazard-determining components of labelling:** Clove Leaf Oil

- **Hazard statements:** Causes skin irritation
Causes serious eye irritation
May cause an allergic skin reaction
May cause respiratory irritation
May be fatal if swallowed and enters the airway
May be harmful if swallowed.
Causes mild skin irritation.
Toxic to aquatic life.

- **Precautinary statements:** Avoid breathing dust/fume/gas/mist/vapors/spray
Wash thoroughly after handling
Use only outdoors or in a well-ventilated area
Wear protective gloves / protective clothing / eye protection / face protection.
If on skin: Wash with plenty of soap and water.
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
Continue rinsing.
Call a poison center/doctor if you feel unwell.
Specific treatment (see on this label)
If skin irritation occurs: Get medical advice/attention.
If eye irritation persists: Get medical advice/attention.
Take off contaminated clothing.
Store in a well-ventilated place. Keep container tightly closed.
Store locked up.
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:** Regulatory department.

- **Date of preparation / last revision:** 04/12/2018

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 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
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
STOT SE 3: Specific target organ toxicity – (Single exposure) - Category 3
Asp. Tox. 1: Aspiration hazard – Category 1