

0060 – Orange Oil, Natural

Safety Data Sheet

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

Date of issue: 11/11/2021 Version: 6

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

1.1. Product identifier

Product name : 0060 - Orange Oil, Natural
CAS Number : 8008-57-9

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

Classification (GHS-US)

Flammable liq. 3 H226 Flammable liquid and vapor.
Aspiration tox. 1 H304 May be fatal if swallowed and enters airways.
Skin irrit. 2 H315 Causes skin irritation.
Skin sens. 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 : ORANGE OIL

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

Precautionary statements (GHS-US) : Keep away from heat/sparks/open flames/hot surfaces. – No smoking.
Keep container tightly closed.
Ground/bond container and receiving equipment.
Use explosion-proof electrical/ventilating/lighting/equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Avoid breathing dust/fume/gas/mist/vapors/spray.
Wash thoroughly after handling.
Contaminated work clothing must not be allowed out of the workplace.

Wear protective gloves/protective clothing/eye protection/face protection.
If swallowed: Immediately call a poison center/doctor.
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
Specific treatment (see on this label).
Do NOT induce vomiting.
If skin irritation or rash occurs: Get medical advice/attention.
Take off contaminated clothing and wash it before reuse.
Wash contaminated clothing before reuse.
In case of fire: Use for extinction: CO2, powder or water spray.
Store in a well-ventilated place. Keep cool.
Store locked up.
Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3. Classification system

NFPA ratings (scale 0-4)

Health = 1
Fire = 2
Reactivity = 0

HMIS ratings (scale 0-4)

Health = 1
Fire = 2
Reactivity = 0

2.4. 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: 8008-57-9 ORANGE OIL

Identification number(s)

EC number: 307-891-8

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.
After swallowing	: If symptoms persist consult doctor.

4.2. 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, dry 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

Protective 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

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

7.2. Information about protection against explosions and fires

Keep ignition sources away – Do not smoke.

Protect against electrostatic charges.

7.3. 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.

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 foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.

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.

Protection of hands	: Wear 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 manufacturer of the protective gloves and has to be observed.
Eye protection	: Tightly sealed goggles.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Color	: According to product specification
Odor	: Characteristic
pH	: Not determined
Boiling point/Boiling range	: Undetermined
Flash point	: 127.4 °F
Flammability (solid, gaseous)	: Not applicable
Decomposition temperature	: Not determined
Auto igniting	: Not determined
Danger of explosion	: Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
Vapor limits	
Lower	: Not determined
Upper	: Not determined
Vapor pressure at 20°C (68°F)	: Not determined
Density @ 20°C (68°F):	: 0.84515 g/cm ³ (7.05278 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
VOC content	: 0.00% 0.0 g/l / 0.00 lb/gal
Solids content	: 0.0%
Other information	: No further relevant information available.

SECTION 10: Stability and reactivity

10.1. Reactivity

No further relevant information available.

10.2. Chemical stability

Thermal decomposition / conditions to be avoided	: No decomposition if used according to specifications.
Possibility of hazardous reactions	: No dangerous reactions known.

10.3. Conditions to avoid

No further relevant information available.

10.4. Incompatible materials

No further relevant information available.

10.5. Hazardous decomposition products

No dangerous decomposition products known.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

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

11.2. Additional toxicological information

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.

SECTION 12: Ecological information

12.1. Toxicity and Behavior in environmental systems

Aquatic toxicity : No further relevant information available.
Persistence and degradability : No further relevant information available.
Bioaccumulative potential : No further relevant information available.
Mobility in soil : No further relevant information available.

12.2. 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

Waste treatment methods recommendation : 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, 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: ORANGE 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.

TSCA new (21st Century Act) (Substances 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 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:
ORANGE OIL
- Hazard statements
Flammable liquid and vapour
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.
Keep container tightly closed.
Ground/bond container and receiving equipment.
Use explosion-proof electrical/ventilating/lighting/equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Avoid breathing dust/fume/gas/mist/vapors/spray.
Wash thoroughly after handling.
Contaminated work clothing must not be allowed out of the workplace.
Wear protective gloves/protective clothing/eye protection/face protection.
If swallowed: Immediately call a poison center/doctor.
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
Specific treatment (see on this label).
Do NOT induce vomiting.
If skin irritation or rash occurs: Get medical advice/attention.
Take off contaminated clothing and wash it before reuse.

Wash contaminated clothing before reuse.

In case of fire: Use for extinction: CO₂, powder or water spray.

Store in a well-ventilated place. Keep cool.

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.

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 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 – Category 3

Skin. Irrit. 2: Skin corrosion/irritation – Category 2

Skin Sens. 1: Skin sensitization – Category 1

Asp. Tox. 1: Aspiration hazard – Category 1