

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 05/01/2018 Revision date: 05/24/2024 Supersedes: 04/12/2024 Version: 1.8

SECTION 1: Identification Identification 1.1. Product form : Substance Product name **CLEMENTINE OIL** CAS-No. 8016-85-1 Product code 50-6088-01 1.2. Recommended use and restrictions on use 1.3. **Supplier** The Lebermuth Company 4004 Technology Drive South Bend, IN 46628 - United States T 574-259-7000 - F 574-258-7450 info@lebermuth.com - www.lebermuth.com 1.4. **Emergency telephone number** Emergency number : CHEMTREC - USA: 800-424-9300 International: +1 703-527-3887 / 1-800-424-9300 CCN 13010 SECTION 2: Hazard(s) identification 2.1. Classification of the substance or mixture **GHS US classification** Flammable liquids Category 3 Flammable liquid and vapor Skin corrosion/irritation Category 2 Causes skin irritation Skin sensitization, Category 1 May cause an allergic skin reaction Reproductive toxicity Category 2 Suspected of damaging fertility or the unborn child Aspiration hazard Category 1 May be fatal if swallowed and enters airways 22 GHS Label elements, including precautionary statements **GHS US labeling** Hazard pictograms (GHS US) GHS02 GHS07 GHS08 Signal word (GHS US) · Danger 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 Suspected of damaging fertility or the unborn child Obtain special instructions before use. Precautionary statements (GHS US) Do not handle until all safety precautions have been read and understood. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. 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 hands, forearms and face 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 or doctor. If on skin: Wash with plenty of water. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with

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water/shower.

If exposed or concerned: Get medical advice/attention. Specific treatment (see supplemental first aid instruction on this label). Do NOT induce vomiting. If skin irritation occurs: Get medical advice/attention. 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 media other than water to extinguish. Store in a well-ventilated place. Keep cool. Store locked up. Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.0. Other nazarus which do not result in classification	2.3.	Other	hazards	which do	o not result	in classification
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No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances			
Name	Product identifier	%	GHS US classification
CLEMENTINE OIL	(CAS-No.) 8016-85-1	100	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Repr. 2, H361 Asp. Tox. 1, H304

Full text of hazard classes and H-statements : see section 16

3.2. Mixtures	
Not applicable	
SECTION 4: First-aid measures	
4.1. Description of first aid measures	
First-aid measures general	: Call a physician immediately.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact	: Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact	: Rinse eyes with water as a precaution.
First-aid measures after ingestion	: Do not induce vomiting. Call a physician immediately.
4.2. Most important symptoms and effect	ts (acute and delayed)
Symptoms/effects after inhalation	: Although no appropriate human or animal health effects data are known to exist, this material is expected to be an inhalation hazard.
Symptoms/effects after skin contact	: Irritation. May cause an allergic skin reaction.
Symptoms/effects after eye contact	: None under normal conditions.
Symptoms/effects after ingestion	: Risk of lung edema.

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

ng media
: Water spray. Dry powder. Foam. Carbon dioxide.
Do not use a heavy water stream.
mical
: Flammable liquid and vapor.
No direct explosion hazard.
Flammable liquid and vapor.
cautions for fire-fighters
 Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection.

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Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
SECTION 6: Accidental release m	neasures
6.1. Personal precautions, protective	e equipment and emergency procedures
General measures	: Stop leak if safe to do so. Notify authorities if product enters sewers or public waters. Absorb spillage to prevent material-damage.
6.1.1. For non-emergency personnel	
Protective equipment	: Wear recommended personal protective equipment.
Emergency procedures	: Ventilate spillage area. No open flames, no sparks, and no smoking. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapors/spray.
6.1.2. For emergency responders	
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
Emergency procedures	: Evacuate unnecessary personnel. Stop leak if safe to do so.
6.2. Environmental precautions	
Avoid release to the environment.	
6.3. Methods and material for contai	nment and cleaning up
For containment	 Absorb spilled material with sand or earth. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Stop leak, if possible without risk.
Methods for cleaning up	: Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.
Other information	: Dispose of materials or solid residues at an authorized site.
6.4. Reference to other sections	
For further information refer to section 13.	
SECTION 7: Handling and storag	e
7.1. Precautions for safe handling	
Additional hazards when processed	: Not expected to present a significant hazard under anticipated conditions of normal use.
Precautions for safe handling	: Ensure good ventilation of the work station. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapors may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapors/spray.
Hygiene measures	: Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
7.2. Conditions for safe storage, inc	luding any incompatibilities
Fechnical measures	: Ground/bond container and receiving equipment.
Storage conditions	: Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up.
Packaging materials	: Store always product in container of same material as original container.

SECT	ION 8: Exposure controls/pers	ional protection
8.1.	Control parameters	
CLEN	IENTINE OIL (8016-85-1)	
No ad	ditional information available	
8.2.	Appropriate engineering controls	
Appropriate engineering controls :		: Ensure good ventilation of the work station.

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Environmen	tal exposure	controls

: Avoid release to the environment.

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8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Wear recommended personal protective equipment.

Hand protection:

Protective gloves

Eye protection:

Safety glasses

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

[In case of inadequate ventilation] wear respiratory protection.



SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties 9.1. Physical state : Liquid Color : ORANGE TO REDDISH-ORANGE LIQUID Odor : FRUITY, SWEET TYPICAL NOTE OF CLEMENTINE Odor threshold No data available : No data available pН Melting point · Not applicable Freezing point : No data available : No data available Boiling point Flash point 48 °C Relative evaporation rate (butyl acetate=1) : No data available Flammability : Not applicable. : No data available Vapor pressure Relative vapor density at 20°C : No data available Relative density · 0.845(0.837 - 0.85)Solubility : Insoluble. Partition coefficient n-octanol/water (Log Pow) : No data available Auto-ignition temperature : No data available : No data available Decomposition temperature Viscosity, kinematic : No data available Viscosity, dynamic : No data available **Explosion limits** : No data available Explosive properties : No data available Oxidizing properties : No data available 9.2. Other information Refractive index : 1.473 (1.468 - 1.48) SECTION 10: Stability and reactivity

10.1. Reactivity

Flammable liquid and vapor.

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10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Under normal conditions of storage and use, hazardous decomposition products should not be produced.		
SECTION 11: Toxicological information		
11.1. Information on toxicological effects		
Acute toxicity (oral)	: Not classified	
Acute toxicity (dermal)	: Not classified	
Acute toxicity (inhalation)	: Not classified	
Skin corrosion/irritation	: Causes skin irritation.	
Serious eye damage/irritation	: Not classified	
Respiratory or skin sensitization	: May cause an allergic skin reaction.	
Germ cell mutagenicity	: Not classified	
Carcinogenicity	: Not classified	
Reproductive toxicity	: Suspected of damaging fertility or the unborn child.	
STOT-single exposure	: Not classified	
STOT-repeated exposure	: Not classified	
Aspiration hazard	: May be fatal if swallowed and enters airways.	
Viscosity, kinematic	: No data available	
Symptoms/effects after inhalation	: Although no appropriate human or animal health effects data are known to exist, this material is expected to be an inhalation hazard.	
Symptoms/effects after skin contact	: Irritation. May cause an allergic skin reaction.	
Symptoms/effects after eye contact	: None under normal conditions.	
Symptoms/effects after ingestion	: Risk of lung edema.	
SECTION 12: Ecological information		
12.1. Toxicity		
Ecology - general	: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.	

12.2.	Persistence and degradability
No addit	onal information available
12.3.	Bioaccumulative potential
No addit	onal information available
12.4.	Mobility in soil
No addit	onal information available
12.5.	Other adverse effects

No additional information available

SECTION 13: Disposal consideration	ns
13.1. Disposal methods	
Regional waste regulation	: Disposal must be done according to official regulations.
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.

05/24/2024	EN (English US) 6.
Transport document description (IMDG) JN-No. (IMDG)	: UN 1197 EXTRACTS, LIQUID, 3, III : 1197
Transport by sea	
Passenger Carrying Road Vehicle or Passenger Carrying Railway Vehicle Index	: 60 L
Explosive Limit and Limited Quantity Index	: 5L
Packing group (TDG)	: III - Minor Danger
TDG Primary Hazard Classes	: 3 - Class 3 - Flammable Liquids
Proper Shipping Name (TDG)	: EXTRACTS, FLAVOURING, LIQUID
JN-No. (TDG)	: UN1197
Fransport document description (TDG)	: UN1197 EXTRACTS, FLAVOURING, LIQUID (Regulated for Bulk only), 3, III
Transportation of Dangerous Goods	
Other information	: No supplementary information available.
Emergency Response Guide (ERG) Number	: 127
DOT Vessel Stowage Location	: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 220 L
DOT Quantity Limitations Passenger aircraft/rail 49 CFR 173.27)	: 60 L
DOT Packaging Exceptions (49 CFR 173.xxx)	: 150
	during transport, and tf is the temperature in degrees celsius of the liquid during filling.
	 IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liqui with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Tat 2 for UN2672). T2 - 1.5 178.274(d)(2) Normal
	bulk packaging requirements of 173.241 of this subchapter are applicable. If the material has flash point of less than 38 C (100 F), then the bulk packaging requirements of 173.242 of this subchapter are applicable.
DOT Special Provisions (49 CFR 172.102)	: B1 - If the material has a flash point at or above 38 C (100 F) and below 93 C (200 F), then the
DOT Packaging Bulk (49 CFR 173.xxx)	: 242
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 203
Packing group (DOT) Hazard labels (DOT)	: III - Minor Danger : 3 - Flammable liguid
Class (DOT) Packing group (DOT)	: 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120
	(Regulated for Bulk only)
Proper Shipping Name (DOT)	: Extracts, flavoring, liquid
JN-No.(DOT)	: UN1197
Transport document description (DOT)	: UN1197 Extracts, flavoring, liquid (Regulated for Bulk only), 3, III
n accordance with DOT	
Department of Transportation (DOT)	
SECTION 14: Transport information	
Additional information	: Flammable vapors may accumulate in the container. Do not re-use empty containers.
Product/Packaging disposal recommendations	: Disposal must be done according to official regulations.

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Proper Shipping Name (IMDG)	: EXTRACTS, LIQUID
Class (IMDG)	: 3 - Flammable liquids
Packing group (IMDG)	: III - substances presenting low danger
Limited quantities (IMDG)	: 5L
Air transport	
Transport document description (IATA)	: UN 1197 Extracts, liquid, 3, III
UN-No. (IATA)	: 1197

 Proper Shipping Name (IATA)
 : Extracts, liquid

 Class (IATA)
 : 3 - Flammable Liquids

 Packing group (IATA)
 : III - Low danger

SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

15.2. International regulations

CANADA

CLEMENTINE OIL (8016-85-1)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

No additional information available

National regulations

CLEMENTINE OIL (8016-85-1) Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active

15.3. US State regulations

WARNING:

This product can expose you to beta-myrcene, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

SECTION 16: Other information		
Revision date		: 05/24/2024
Full text of H-phrases:		
	H226	Flammable liquid and vapor
	H304	May be fatal if swallowed and enters airways
	H315	Causes skin irritation
	H317	May cause an allergic skin reaction
	H361	Suspected of damaging fertility or the unborn child

SDS US (GHS HazCom 2012) - Lebermuth

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.