

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 05/09/2017 Revision date: 04/10/2024 Supersedes: 03/02/2023 Version: 1.8

SECTION 1: Identification Identification 1.1. Product form : Substance Product name **GRAPEFRUIT WHITE OIL** CAS-No. 8016-20-4 Product code : 50-6140-01 Recommended use and restrictions on use 1.2. 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 May be fatal if swallowed and enters airways Aspiration hazard Category 1 2.2. 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 : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No Precautionary statements (GHS US) 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 water/shower. Specific treatment (see supplemental first aid instruction on this label). Do NOT induce vomiting. If skin irritation occurs: Get medical advice/attention.

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	If skin irritation or rash oc Take off contaminated clo Wash contaminated cloth In case of fire: Use media Store in a well-ventilated Store locked up. Dispose of contents/conta with local, regional, natior	othing and wash it before r ing before reuse. a other than water to exting place. Keep cool. ainer to hazardous or spec	euse. guish. cial waste	collection point, in accordance
2.3. Other hazards which do not res	sult in classification			
No additional information available				
2.4. Unknown acute toxicity (GHS U	JS)			
Not applicable				
SECTION 3: Composition/Inform	ation on ingredients			
3.1. Substances				
Name		Product identifier	%	GHS US classification
GRAPEFRUIT OIL		(CAS-No.) 8016-20-4	100	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Asp. Tox. 1, H304
Full text of hazard classes and H-statement	ts : see section 16			
3.2. Mixtures				
Not applicable				
SECTION 4: First-aid measures				
4.1. Description of first aid measure	es			
irst-aid measures general	: Call a physician immediat	,		
irst-aid measures after inhalation	: Remove person to fresh a			
First-aid measures after skin contact	irritation or rash occurs: G	Set medical advice/attentic		all contaminated clothing. If skin
First-aid measures after eye contact				
			IV.	
-	: Do not induce vomiting. C	all a physician immediate	'y.	
4.2. Most important symptoms and	effects (acute and delayed)			
First-aid measures after ingestion 4.2. Most important symptoms and Symptoms/effects after inhalation	effects (acute and delayed)	numan or animal health ef		are known to exist, this material is
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SECTION 6: Accidental release measures			
6.1. Personal precautions, protective 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 containme	nt 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 storage			
7.1. Precautions for safe handling			
Additional hazards when processed Precautions for safe handling	 Not expected to present a significant hazard under anticipated conditions of normal use. 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. 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, includin	g any incompatibilities		
Technical 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.		
SECTION 8: Exposure controls/perso	onal protection		
8.1. Control parameters			

GRAPEFRUIT OIL (8016-20-4)		
No additional information available		
8.2. Appropriate engineering control	bls	
Appropriate engineering controls	: Ensure good ventilation of the work station.	
Environmental exposure controls	: Avoid release to the environment.	
8.3. Individual protection measures	/Personal protective equipment	
Porsonal protective equipment:		

Personal protective equipment:

Wear recommended personal protective equipment.

Hand protection:

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Protective gloves

Eye protection:

Safety glasses

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment



SECTION 9: Physical and chemical properties

9.1. Information on basic physical and o	chemical properties
Physical state	: Liquid
Color	: YELLOW, GREENISH-YELLOW TO ORANGE LIQUID
Odor	: FRESH GRAPEFRUIT ODOR
Odor threshold	: No data available
pH	: No data available
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: No data available
Flash point	: 51 °C
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability	: Not applicable.
Vapor pressure	: No data available
Relative vapor density at 20°C	: No data available
Relative density	: 0.849 (0.838 – 0.865)
Solubility	: Insoluble.
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
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

: 1.475 (1.465 - 1.48)

SECTION 10: Stability and reactivity

10.1. Reactivity

Flammable liquid and vapor. The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

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10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition. None under recommended storage and handling conditions (see section 7).

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.

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	: Not classified	
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.	

SECT	ION 12: Ecological information	
12.1.	Toxicity	
Ecolog	/ - 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 add	itional information available	
12.3.	Bioaccumulative potential	
No add	itional information available	
12.4.	Mobility in soil	
No add	itional information available	

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations		
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.	
Sewage disposal recommendations	: Disposal must be done according to official regulations.	
Product/Packaging disposal recommendations	: Disposal must be done according to official regulations.	
Additional information	: Flammable vapors may accumulate in the container. Do not re-use empty containers.	

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SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT Transport document description (DOT)

UN-No.(DOT) Proper Shipping Name (DOT)

Class (DOT) Packing group (DOT) Hazard labels (DOT)

: UN1197 Extracts, flavoring, liquid (Regulated for Bulk only), 3, III

- : UN1197
- : Extracts, flavoring, liquid
- Regulated for Bulk only
- : 3 Class 3 Flammable and combustible liquid 49 CFR 173.120
- : III Minor Danger
- : 3 Flammable liquid



: 203

DOT Packaging Non Bulk (49 CFR 173.xxx)	
DOT Packaging Bulk (49 CFR 173.xxx)	

Berr delaging rien Bank (re er ri rieskik)	. 200
DOT Packaging Bulk (49 CFR 173.xxx)	: 242
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 bulk packaging requirements of 173.241 of this subchapter are applicable. If the material has a flash point of less than 38 C (100 F), then the bulk packaging requirements of 173.242 of this subchapter are applicable. 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 liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672). T2 - 1.5 178.274(d)(2) Normal
DOT Packaging Exceptions (49 CFR 173.xxx)	: 150
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 60 L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 220 L
DOT Vessel Stowage Location	: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.
Emergency Response Guide (ERG) Number	: 127
Other information	: No supplementary information available.
Transportation of Dangerous Goods	
Transport document description (TDG)	: UN1197 EXTRACTS, FLAVOURING, LIQUID (Regulated for Bulk only), 3, III
UN-No. (TDG)	: UN1197
Proper Shipping Name (TDG)	: EXTRACTS, FLAVOURING, LIQUID
TDG Primary Hazard Classes	: 3 - Class 3 - Flammable Liquids
Packing group (TDG)	: III - Minor Danger
Explosive Limit and Limited Quantity Index	: 5L
Passenger Carrying Road Vehicle or Passenger Carrying Railway Vehicle Index	: 60 L
Transport by sea	
Transport document description (IMDG)	: UN 1197 EXTRACTS, LIQUID, 3, III
UN-No. (IMDG)	: 1197
Proper Shipping Name (IMDG)	: EXTRACTS, LIQUID
Class (IMDG)	: 3 - Flammable liquids
Packing group (IMDG)	: III - substances presenting low danger

Limited quantities (IMDG)

: 5 L

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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
GRAPEFRUIT OIL (8016-20-4)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2. International regulations

CANADA

GRAPEFRUIT OIL (8016-20-4)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations No additional information available

National regulations

No additional information available

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.

CTION 16: Other information	
ision date	: 04/10/2024
text of H-phrases:	
H226	Flammable liquid and vapor
H304	May be fatal if swallowed and enters airways
11304	iviay be latal il swallowed and effets all ways
H315	Causes skin irritation
H317	May cause an allergic skin reaction
1317	iviay cause an allergic skin reaction
	H304

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.