

Safety Data Sheet

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

Date of issue: 01/18/2019 Revision date: 01/18/2019 Supersedes: 01/18/2019 Version: 1.1

SECTION 1: Identification

Identification

Product form : Mixture

Product name : OIL. SPICY GER VERBENA III AN*

CAS-No. N/A Product code : 90-3033-72

Recommended use and restrictions on use

No additional information available

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: 703-527-3887

SECTION 2: Hazard(s) identification

Classification of the substance or mixture

GHS-US classification

Flammable liquids Category 4 Skin corrosion/irritation Category 2 Serious eye damage/eye irritation Category 2 Skin sensitization, Category 1

Aspiration hazard Category 1

Combustible liquid Causes skin irritation Causes serious eye irritation May cause an allergic skin reaction

May be fatal if swallowed and enters airways

GHS Label elements, including precautionary statements

GHS-US labeling

Hazard pictograms (GHS-US)





Signal word (GHS-US) : Danger

Combustible liquid Hazard statements (GHS-US)

May be fatal if swallowed and enters airways

Causes skin irritation

May cause an allergic skin reaction Causes serious eye irritation

Precautionary statements (GHS-US) Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking.

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 in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing

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. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.

Wash contaminated clothing before reuse.

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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

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	GHS-US classification
LEMON OIL TERPENES	(CAS-No.) 68917-33-9	10 - 25	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Asp. Tox. 1, H304
PATCHOULI OIL	(CAS-No.) 8014-09-3	5 - 10	Asp. Tox. 1, H304
BERGAMOT OIL	(CAS-No.) 89957-91-5	5 - 10	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Skin Sens. 1, H317 Asp. Tox. 1, H304
LAVANDIN OIL	(CAS-No.) 8022-15-9	5 - 10	Flam. Liq. 4, H227 Eye Irrit. 2A, H319 Skin Sens. 1B, H317
ORANGE TERPENES	(CAS-No.) 68647-72-3	1 - 5	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1B, H317 Asp. Tox. 1, H304
CEDARWOOD OIL	(CAS-No.) 8000-27-9	1 - 5	Asp. Tox. 1, H304
GERANIUM OIL	(CAS-No.) 8000-46-2	1 - 5	Flam. Liq. 4, H227 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Asp. Tox. 1, H304
CLOVE OIL	(CAS-No.) 84961-50-2	1 - 5	Eye Irrit. 2A, H319 Skin Sens. 1B, H317
EUGENOL	(CAS-No.) 97-53-0	1 - 5	Eye Irrit. 2, H319 Skin Sens. 1, H317
PETITGRAIN OIL	(CAS-No.) 8014-17-3	1 - 5	Flam. Liq. 4, H227 Skin Irrit. 2, H315 Skin Sens. 1, H317
CARDAMOM OIL	(CAS-No.) 8000-66-6	1 - 5	Flam. Liq. 4, H227 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Skin Sens. 1, H317 Asp. Tox. 1, H304
ELEMI OIL	(CAS-No.) 8023-89-0	1 - 5	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Asp. Tox. 1, H304
OPOPONAX OIL	(CAS-No.) 8021-36-1	0.1 - 1	Flam. Liq. 4, H227 Skin Irrit. 2, H315 Skin Sens. 1, H317 Asp. Tox. 1, H304
DAVANA OIL	(CAS-No.) 8016-03-3	0.1 - 1	Skin Sens. 1, H317
GALBANUM OIL	(CAS-No.) 8023-91-4	0.1 - 1	Flam. Liq. 4, H227 Skin Irrit. 2, H315 Skin Sens. 1, H317 Asp. Tox. 1, H304

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

SECTION 4: First-aid measures

Description of first aid measures

First-aid measures general : Call a physician immediately.

Remove person to fresh air and keep comfortable for breathing. First-aid measures after inhalation

Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: First-aid measures after skin contact

Get medical advice/attention.

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to First-aid measures after eye contact

do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion : Do not induce vomiting. Call a physician immediately.

Most important symptoms and effects (acute and delayed)

Symptoms/effects after skin contact : Irritation. May cause an allergic skin reaction.

Symptoms/effects after eye contact : Eye irritation. Symptoms/effects after ingestion Risk of lung edema.

Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

Specific hazards arising from the chemical

Fire hazard : Combustible liquid.

Reactivity : The product is non-reactive under normal conditions of use, storage and transport.

5.3 Special protective equipment and precautions for fire-fighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing

apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

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

: Do not attempt to take action without suitable protective equipment. For further information Protective equipment

refer to section 8: "Exposure controls/personal protection".

6.2. **Environmental precautions**

Avoid release to the environment.

Methods and material for containment and cleaning up

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

Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

Precautions for safe handling

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. Wear personal protective equipment. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapors/spray.

Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed Hygiene measures

out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

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7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep cool. Store locked up.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

GALBANUM OIL (8023-91-4)

Not applicable

BERGAMOT OIL (89957-91-5)

Not applicable

OPOPONAX OIL (8021-36-1)

Not applicable

ORANGE TERPENES (68647-72-3)

Not applicable

LEMON OIL TERPENES (68917-33-9)

Not applicable

CEDARWOOD OIL (8000-27-9)

Not applicable

GERANIUM OIL (8000-46-2)

Not applicable

LAVANDIN OIL (8022-15-9)

Not applicable

CARDAMOM OIL (8000-66-6)

Not applicable

CLOVE OIL (84961-50-2)

Not applicable

DAVANA OIL (8016-03-3)

Not applicable

EUGENOL (97-53-0)

Not applicable

ELEMI OIL (8023-89-0)

Not applicable

PATCHOULI OIL (8014-09-3)

Not applicable

PETITGRAIN OIL (8014-17-3)

Not applicable

8.2. Appropriate engineering controls

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

Hand protection:

Protective gloves

Eye protection:

Safety glasses

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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 chemical properties

Physical state : Liquid

Color : YELLOW/AMBER TO AMBER/ORANGE TO RED
Odor : CHARACTERISTIC, MATCHING RETAINER SAMPLE

Odor threshold : No data available pH : No data available Melting point : Not applicable Freezing point : No data available Boiling point : No data available : No data available

Flash point : 65 °C

Relative evaporation rate (butyl acetate=1) : No data available Flammability (solid, gas) : Not applicable.

Vapor pressure : No data available Relative vapor density at 20 °C : No data available Relative density : 0.908 (0.898 - 0.918)

Solubility : Insoluble.

Log Pow : No data available : No data available Auto-ignition temperature : No data available Decomposition temperature Viscosity, kinematic No data available : No data available Viscosity, dynamic **Explosion limits** : No data available Explosive properties : No data available : No data available Oxidizing properties

9.2. Other information

Refractive index : 1.479 (1.469 - 1.489)

SECTION 10: Stability and reactivity

10.1. Reactivity

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.

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.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

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CLOVE OIL (84961-50-2)

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Acute toxicity : Not classified

ORANGE TERPENES (68647-72-3)	
LD50 oral rat	> 2000 mg/kg body weight (OECD 423: Acute Oral Toxicity – Acute Toxic Class Method, Rat, Female, Read-across, Oral)
LD50 dermal rabbit	> 5000 mg/kg body weight (Equivalent or similar to OECD 402, Rabbit, Weight of evidence, Dermal)

ATE US (oral)	2650 mg/kg body weight	
ATE US (dermal)	2500 mg/kg body weight	
EUGENOL (97-53-0)		
LD50 oral rat	> 2000 mg/kg body weight (Equivalent or similar to OECD 423, Rat, Male/female, Experimental value, Oral)	
LC50 inhalation rat (mg/l)	> 2.6 mg/l air (Equivalent or similar to OECD 403, 4 h, Rat, Male/female, Experimental value, Inhalation (aerosol))	
ATE US (oral)	2300 mg/kg body weight	
ELEMI OIL (8023-89-0)		
ATE US (oral)	3370 mg/kg body weight	
ATE US (dermal)	2500 mg/kg body weight	

Skin corrosion/irritation : Causes skin irritation. Serious eye damage/irritation Causes serious eye irritation. Respiratory or skin sensitization May cause an allergic skin reaction.

Germ cell mutagenicity : Not classified Carcinogenicity : Not classified

ORANGE TERPENES (68647-72-3)	
IARC group	3 - Not classifiable

EUGENOL (97-53-0)	
IARC group	3 - Not classifiable

: Not classified Reproductive toxicity Specific target organ toxicity - single exposure : Not classified

Specific target organ toxicity - repeated exposure

: Not classified

Aspiration hazard : May be fatal if swallowed and enters airways. : Irritation. May cause an allergic skin reaction. Symptoms/effects after skin contact

Symptoms/effects after eye contact : Eye irritation. Symptoms/effects after ingestion : Risk of lung edema.

SECTION 12: Ecological information

12.1	Tox	icit

Ecology - general : The product is not considered harmful to aquatic organisms or to cause long-term adverse

effects in the environment.

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ORANGE TERPENES (68647-72-3)	
LC50 fish 1	720 μg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Pimephales promelas, Flow-through system, Fresh water, Experimental value, Lethal)
EC50 Daphnia 1	0.36 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, GLP)

EUGENOL (97-53-0)	
LC50 fish 1	13 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Danio rerio, Semi-static system, Fresh water, Experimental value, GLP)
EC50 Daphnia 1	1.13 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, GLP)
ErC50 (algae)	24 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Desmodesmus subspicatus, Static system, Fresh water, Experimental value, GLP)

12.2. Persistence and degradability

ORANGE TERPENES (68647-72-3)	
Persistence and degradability	Readily biodegradable in water.
ThOD	3.29 g O ₂ /g substance

EUGENOL (97-53-0)	
Persistence and degradability	Readily biodegradable in water.

12.3. Bioaccumulative potential

ORANGE TERPENES (68647-72-3)	
BCF fish 1	864.8 - 1022 (Pisces, QSAR, Fresh weight)
Log Pow	4.38 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 37 °C)
Bioaccumulative potential	Potential for bioaccumulation (4 ≥ Log Kow ≤ 5).

EUGENOL (97-53-0)	
Log Pow	1.83 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 30 °C)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).

12.4. Mobility in soil

ORANGE TERPENES (68647-72-3)	
Ecology - soil	Adsorbs into the soil.

EUGENOL (97-53-0)	
Ecology - soil	No (test)data on mobility of the substance available.

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

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SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Not regulated

Transportation of Dangerous Goods

Not applicable

Transport by sea

Not applicable

Air transport

Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations

GALBANUM OIL (8023-91-4)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

BERGAMOT OIL (89957-91-5)

Not listed on the United States TSCA (Toxic Substances Control Act) inventory

OPOPONAX OIL (8021-36-1)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

ORANGE TERPENES (68647-72-3)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

LEMON OIL TERPENES (68917-33-9)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

CEDARWOOD OIL (8000-27-9)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

GERANIUM OIL (8000-46-2)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

LAVANDIN OIL (8022-15-9)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

CARDAMOM OIL (8000-66-6)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

CLOVE OIL (84961-50-2)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

DAVANA OIL (8016-03-3)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

EUGENOL (97-53-0)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

ELEMI OIL (8023-89-0)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

PATCHOULI OIL (8014-09-3)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

PETITGRAIN OIL (8014-17-3)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

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15.2. International regulations

CANADA

GALBANUM OIL (8023-91-4)

Listed on the Canadian DSL (Domestic Substances List)

BERGAMOT OIL (89957-91-5)

Listed on the Canadian DSL (Domestic Substances List)

OPOPONAX OIL (8021-36-1)

Listed on the Canadian DSL (Domestic Substances List)

ORANGE TERPENES (68647-72-3)

Listed on the Canadian DSL (Domestic Substances List)

LEMON OIL TERPENES (68917-33-9)

Listed on the Canadian DSL (Domestic Substances List)

CEDARWOOD OIL (8000-27-9)

Listed on the Canadian DSL (Domestic Substances List)

GERANIUM OIL (8000-46-2)

Listed on the Canadian DSL (Domestic Substances List)

LAVANDIN OIL (8022-15-9)

Listed on the Canadian DSL (Domestic Substances List)

CARDAMOM OIL (8000-66-6)

Listed on the Canadian DSL (Domestic Substances List)

CLOVE OIL (84961-50-2)

Listed on the Canadian DSL (Domestic Substances List)

DAVANA OIL (8016-03-3)

Listed on the Canadian DSL (Domestic Substances List)

EUGENOL (97-53-0)

Listed on the Canadian DSL (Domestic Substances List)

ELEMI OIL (8023-89-0)

Listed on the Canadian DSL (Domestic Substances List)

PATCHOULI OIL (8014-09-3)

Listed on the Canadian DSL (Domestic Substances List)

PETITGRAIN OIL (8014-17-3)

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



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

This product can expose you to 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

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Full text of H-phrases:

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H226	Flammable liquid and vapour
H227	Combustible liquid
H304	May be fatal if swallowed and enters airways
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H319	Causes serious eye irritation

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

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