

Safety Data Sheet

SECTION 1: Identification

1.1. Identification

Product Name Clove Leaf Oil CAS No. 8000-34-8

1.2. Recommended use and restrictions on use

Recommended Use Aromatic Ingredient (s). For Industrial Use Only.

Uses advised against Do not ingest as such Avoid eye contact

1.3. Supplier

Camden-Grey Essential Oils, Inc. 5751 Halifax Ave., Unit 2 Fort Myers, FL 33912 www.camdengrey.com

1.4. Emergency telephone number

Emergency number: Chemtrec -1.800.424.9300/ 1.703.527.3887 CCN330

SECTION 2: Hazard(s) identification

OSHA Hazard Classification

Serious eye damaqe/eye irritation	Category 2A
Skin Sensitization	Category 1A
Carcinogenicity	Category 2
Aspiration Toxicity	Category 1

Label elements

Signal Word Danger

Hazard Statements
Causes serious eye irritation
May cause an allergic skin reaction
Suspected of causing cancer
May be fatal if swallowed and enters airways





Precautionary Statements - Prevention

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood

Use personal protective equipment as required

Wash face, hands and any exposed skin thoroughly after handling

Avoid breathing dust/fume/gas/mist/vapors/spray

Contaminated work clothing should not be allowed out of the workplace

Wear protective gloves/protective clothing/eye protection/face protection

Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention

Specific treatment (see supplemental first aid instructions on this label)

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

If eye irritation persists: Get medical advice/attention IF ON SKIN: Wash with plenty of soap and water

If skin irritation or rash occurs: Get medical advice/attention

Wash contaminated clothing before reuse

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician Do not induce vomiting

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

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Hazards not otherwise classified (HNOC) None known

Other Information May be harmful if swallowed Causes mild skin irritation Toxic to aquatic life

Interactions with Other Chemicals Classification not possible

Principle Routes of Exposure No information available

SECTION 3: Composition/information on ingredients

Chemical Name	CAS No	Weight %	GHS Classification
Phenol, 2-methoxy-4-(2-pronenyl)-	97-53-0	80% - 90%	Skin Sens. 1B(H317)
			Skin Corr. 3 (H316) Aquatic Acute 2 (H401)
			Eye Irrit. 2A (H319)
Camanhullana hata	87-44-5	10%-20%	Acute Tox. Oral 5 (H303)
Caryophyllene beta	67-44-5	10%-20%	Skin Irrit. 2 (H315) Skin Sens. 1B(H317)
			Skin Corr. 3(H316)
			Asp. Tox. 1 (H304)
Fuganal acetata	02.20.7	1 00/ F 00/	
Eugenol acetate	93-28-7	1.0% - 5.0%	Skin Corr. 3 (H316)
F. of oal	00.04.4	0.40/.4.00/	Acute Tox. Oral 4 (H302)
Furfural	98-01-1	0.1%-1.0%	Flam. Liq. 3 (H226)
			Aquatic Chronic 3 (H412)
			Aquatic Acute 3 (H402)
			Eye Irrit. 2A(H319)
			Care. 2(H351)
			Acute Tox. Oral 3 (H301)
			Acute Tox. Inhalation - vapour 2 (H330)
			Acute Tox. Dermal 4 (H312)
			Skin Irrit. 2 (H315)
methyl eugenol (natural occurring)	93-15-2	<0.1%	STOT SE 3 (H335) Care. 2 (H351)
methyr eugenor (natural occurring)	93-15-2	<0.1%	Aguatic Acute 2 (H401)
			Acute Tox. Oral 4 (H302)
			Muta. 2 (H341)
Nerolidol	7212-44-4	<0.1%	Skin Sens. 1B (H317)
Nerolidoi	7212-44-4	<0.1%	Aquatic Acute 1 (H400)
			Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)
			Eye Irrit. 2B (H320)
Iso eugenol	97-54-1	<0.1%	Skin Sens. 1A(H317)
iso eugenoi	97-54-1	<0.176	Skin Irrit. 2 (H315)
			Aquatic Acute 2 (H401)
			Eye Irrit. 2A(H319)
			Acute Tox. Oral 4 (H302)
			Acute Tox. Oral 4 (H302) Acute Tox. Dermal 4 (H312)
Donard collector	118-58-1	< 0.1%	Acute 10x. Definal 4 (H312) Aquatic Acute 2 (H401)
Benzyl salicylate	110-50-1	< 0.1%	Eye Irrit, 2B (H320)
			Acute Tox. Oral 5 (H303) Skin Sens. 1B(H317)
			Aquatic Chronic 3 (H412)
Benzyl benzoate	120-51-4	<0.1%	Aquatic Chronic 3 (H412) Aquatic Acute 1 (H400)
Derizyi berizuale	120-51-4	<0.1%	Acute Tox. Oral 4 (H302)
			Acute Tox. Oral 4 (H302) Acute Tox. Dermal 5 (H313)
			Aquatic Chronic 2 (H411)

SECTION 4: First-aid measures

First Aid Measures

Eye Contact Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids.

Consult a physician.

Skin Contact Wash skin with soap and water

Inhalation Move to fresh air

Ingestion Clean mouth with water and afterwards drink plenty of water

Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

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SECTION 5: Fire-fighting measures

Suitable Extinguishing Media

Carbon dioxide (C02). Water spray. Use:. Dry chemical, alcohol-resistant foam.

Unsuitable Extinguishing Media

Decomposition by contact with water may generate vapours which can be ignited by heat or open flame.

Specific Hazards Arising from the Chemical

No information available.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Keep people away from and upwind of spill/leak.

6.2. Environmental precautions

Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

6.3. Methods and material for containment and cleaning up

Methods for Clean-up Soak up with inert absorbent material. Pick up and transfer to properly labelled containers. Dam up

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Handling

Wear personal protective equipment. Use only in area provided with appropriate exhaust ventilation. Do not breathe vapours orspray mist. Use product only in closed system.

7.2. Conditions for safe storage, including any incompatibilities

Storage

Keep containers tightly closed in a dry, cool and well-ventilated place Keep away from open flames, hot surfaces and sources of ignition

SECTION 8: Exposure controls/personal protection

Control parameters

Exposure Guidelines

Г	Chemical name OSHA PEL (TWA)		ACGIH TLV(TWA)	ACGIH TLV(STEL)	California PEL (TWA)	
	Furfural	20 MGM3, 5 PPM	0.2 PPM	ű	8 MGM3, 2 PPM	
	98-01-1					

Appropriate engineering controls

Engineering Controls Ensure adequate ventilation, especially in confined areas.

Individual protection measures, such as personal protective equipment Eye/face Protection Tight sealing safety goggles.

Skin and body protection No special technical protective measures are necessary.

Respiratory Protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should

be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations.

Respiratory protection must be provided in accordance with current local regulations.

General Hygiene Considerations When using, do not eat, drink or smoke. Regular cleaning of equipment, work area and clothing.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance: Pale yellow Odor: Characteristic

Odor Threshold: No information available

Physical State: Liquid

PropertyValuesRemarks/ MethodpHNot DeterminedNone knownMelthig Point / Melthing RangeNot DeterminedNone known

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Boiling Point / Boiling Range (°C) >35 None known
Flash Point: 100 "C / 212 °F CC (closed cup)
Evaporation rate Not Determined None known
Flammability (solid, gas) Not Determined None known

Vapor Pressure (mm Hg @ 20°C): Not Determined None known Vapor Density Not Determined None known Relative density Not Determined None known Specific Gravity @ 20/20 °C: 1.0370-1.0470 RTM-101 Water Solubility: Not Determined None known Solubility in other solvents Not Determined None known Partition coefficient: n-octanol/water Not Determined None known **Autoignition Temperature** Not Determined None known Decomposition temperature Not Determined None known Decomposition temperature Not Determined None known Viscosity Not Determined None known

Explosive Properties No information available Oxidizing Properties No information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reaction known under conditions of normal use. Keep away from oxidizing agents and strongly acid or alkaline materials.

10.2. Chemical stability

Stable under normal conditions. Hazardous polymerisation does not occur.

10.3. Possibility of hazardous reactions

None under normal processing

10.4. Conditions to avoid

Extremes of temperature and direct sunlight.

10.5. Incompatible materials

Strong oxidizing agents

10.6. Hazardous decomposition products

None known based on information supplied.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Information on likely routes of exposure

Product Information Product does not present an acute toxicity hazard based on known information

Inhalation No data available.

Eye Contact No data available.

Skin Contact No data available.

Ingestion No data available.

Chemical name	ACGIH	IARC	NTP	OSHA
Furfural	Listed	Listed	-	-
98-01-1				
methyl eugenol (natural occurring) 93-15-2			Listed	

Numerical measures of toxicity • Product Information

The following values are calculated based on chapter 3.1 of the GHS document Oral

LD50 2,454.00 mg/kg

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity effects

None known

12.2. Persistence and degradability

No information available

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12.3. Bioaccumulation/ Accumulation

No information available

12.4. Other adverse effects

No information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste Disposal Method Dispose of in accordance with local regulations.

Contaminated Packaging Empty containers should be taken for local recycling, recovery or waste disposal

SECTION 14: Transport information

DOT Not Regulated IMDG/IMO Not Regulated IATA/ICAO Not Regulated

SECTION 15: Regulatory information

USA

Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

<u>State Regulations</u>
<u>California Proposition 65</u> This product does not contain any Proposition 65 chemicals

International Regulations

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR

WHMIS Hazard Class
D2A Very toxic materials



SECTION 16: Other information

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