

SECTION 1: PRODUCT IDENTIFICATION

PRODUCT NAME CLOVE LEAF OIL (Natural)

PRODUCT CODE 0819

SUPPLIER ME

MEDISCA Inc.

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EMERGENCY PHONE CHEMTREC Day or Night Within USA and Canada: 1-800-424-9300

NSW Poisons Information Centre: 131 126

National Chemical Emergency Centre 44(0)1235239670

RECOMMENDED USES Manufacturing and Compounding

RESTRICTIONS ON USE Not applicable

SECTION 2: HAZARDS IDENTIFICATION

GHS CLASSIFICATION Acute Toxicity - Oral (Category 4)

Acute Toxicity - Dermal (Category 5)

Eye Irritation (Category 2A)

Skin Irritation (Category 2)

Specific Target Organ Toxicity - Single Exposure (Category 3) - respiratory

Sensitization - Skin (Category 1)

PICTOGRAM

SIGNAL WORD

HAZARD STATEMENT(S)

Warning

Harmful if swallowed

May be harmful if in contact with skin.

Causes serious eye irritation.

Causes skin irritation.

Not applicable

May cause respiratory irritation.

May cause an allergic skin reaction.

ADVERSE PHYSIOCHEMICAL, HUMAN HEALTH AND ENVIRONMENTAL

EFFECTS

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PRECAUTIONARY STATEMENT(S) Prevention Wash hands thoroughly after handling. Do not touch eyes.

Obtain special instructions before use.

Do not eat, drink or smoke when using this product.

Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing, eye protection, face protection.

Avoid breathing dust, fume, gas, mist, vapors, spray.

Contaminated work clothing should not be allowed out of the workplace.

Use only outdoors or in a well-ventilated area.

Response IF SWALLOWED: Immediately call a poison center. Rinse mouth.

> 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 help. IF ON SKIN: Wash with plenty of water. If skin irritation occurs: Get medical help. Take off

contaminated clothing and wash it before reuse.

IF EXPOSED OR CONCERNED: Get medical advice/attention.

IF ON SKIN: Get medical help.

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a poison

center or doctor. Get medical help if you feel unwell.

Store in a well-ventilated place. Storage

Keep container tightly closed.

Store locked up.

Disposal Dispose of contents and/or container in accordance with local regulations.

HMIS CLASSIFICATION **Health Hazard** Flammability

> Reactivity Personal Protection 0 Ε

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME Not applicable

BOTANICAL NAME Eugenia aromaticum, Caryophyllus aromaticus L., Eugenia caryophyllata

SYNONYM Not applicable **CHEMICAL FORMULA** Not applicable

CHEMICAL FAMILY

CAS NUMBER 8015-97-2

ALTERNATE CAS NUMBER 8000-34-8; 8015-98-3

MOLECULAR WEIGHT

COMPOSITION

Not applicable

CHEMICAL NAME	CAS NUMBER	EC NUMBER	% BY WEIGHT
CLOVE LEAF OIL (Natural)	8015-97-2	616-969-3	100

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as health hazards and hence require reporting in this section.

SECTION 4: FIRST-AID MEASURES

IN CASE OF EYE CONTACT Flush with copious amounts of water for 15 minutes, separating eyelids with fingers. If irritation persists seek

IN CASE OF SKIN CONTACT Wash with soap & water for 15 minutes. If irritation persists seek medical aid.

IF SWALLOWED Call a physician. Wash out mouth with water. Do not induce vomiting without medical advice.

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IF INHALED Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a

physician.

MEDICAL ATTENTION AND SPECIAL

TREATMENT

Get emergency medical help.

SYMPTOMS CAUSED BY EXPOSURE Not expected to present a significant hazard under anticipated conditions of normal use.

SECTION 5: FIREFIGHTING MEASURES

SPECIFIC HAZARDS ARISING FROM

THE CHEMICAL

FLAMMABLE PROPERTIES

HAZARDOUS COMBUSTION PRODUCTS

SUITABLE & UNSUITABLE EXTINGUISHING MEDIA

PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIREFIGHTERS

Not applicable

May be combustible at high temperature

Under fire conditions, hazardous fumes will be present.

Small fire: dry chemical, CO₂ or water spray. Large fire: dry chemical, CO₂, alcohol resistant foam or water spray. Do not get water inside containers.

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

SECTION 6: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS Wear respiratory protection. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate

personnel to safe areas.

METHODS & MATERIAL FOR

CONTAINMENT

On land, sweep or shovel into suitable containers.

CLEANUP PROCEDURE

Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Wear respirator, chemical safety goggles, rubber boots and heavy rubber gloves. Stop leak if you can do it without risk. Prevent entry into waterways, sewers, basements or confined areas. Shut off all sources of ignition.

Evacuate the area. If necessary, employ water fog to disperse the vapors. Absorb the matter with compatible

vermiculite or other absorbing material. Place in a suitable container and retain for disposal. Ventilate and clean

the affected area. Do not flush into sewerage system or to drains.

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

PRECAUTIONS FOR SAFE HANDLING

Do not inhale. Avoid contact with eyes, skin and clothing. Avoid prolonged or repeated exposure. Wash

thoroughly after handling. Store away from incompatible materials, in a well-ventilated area. Eliminate all sources of ignition. Store in accordance with local regulations. Do not store in unlabeled containers. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Use

appropriate containment to avoid environmental contamination.

CONDITIONS FOR SAFE STORAGE Store away from incompatible materials, in a well-ventilated area. Eliminate all sources of ignition. Store in

accordance with local regulations. Do not store in unlabeled containers. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Use appropriate containment to avoid

environmental contamination.

STORAGE CONDITIONS Store in original container, tightly sealed, protected from direct sunlight and moisture.

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SECTION 8: EXPOSURE CONTROLS/ PERSONAL PROTECTION

Chemical Name: CLOVE LEAF OIL (Natural) CAS #: 8015-97-2

	Country	Limit value-8 hours		Limit value-Short Term		IDLH RE	REL	Advisory	Notes	
		ppm	mg/m³	ppm	mg/m³					
OSHA	USA	N/L	N/L	N/L	N/L	N/L	N/L	N/A	N/A	
ACGIH	USA	N/L	N/L	N/L	N/L	N/L	N/L	N/A	N/A	
NIOSH	USA	N/L	N/L	N/L	N/L	N/L	N/L	N/A	N/A	
WEEL	USA	N/L	N/L	N/L	N/L	N/L	N/L	N/A	N/A	
HSIS	Australia	N/L	N/L	N/L	N/L	N/L	N/L	N/A	N/A	
HSE	UK	N/L	N/L	N/L	N/L	N/L	N/L	N/A	N/A	
GESTIS	Add Country	N/L	N/L	N/L	N/L	N/L	N/L	N/A	N/A	

N/L = Not listed; N/A = Not Available

PELs are 8-hour TWAs = Limit value - Eight hours

Ceiling or Short-Term TWA = STEL = Limit value - Short term

EXPOSURE GUIDELINES Consult local authorities for provincial or state exposure limits. Particulates not otherwise regulated, respirable

fraction: 5 mg/m3

PERSONAL PROTECTIVE EQUIPMENT Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by WHMIS or OSHA's

eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166. **Skin:** Wear appropriate gloves to prevent skin exposure. **Clothing:** Wear appropriate protective clothing to minimize contact with skin. **Respirators:** Follow WHMIS or OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced. **Thermal Hazards:** For products representing a

thermal hazard, appropriate Personal Protective Equipment should be used.

SPECIFIC ENGINEERING CONTROLS Adequate mechanical ventilation. Fumehood, eye wash station, and safety shower.

BIOLOGICAL MONITORING

Not available

CONTROL BANDING

Not available

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE Liquid

TEMPERATURE

DESCRIPTION Pale yellow to dark yellow liquid with a characteristic odor of clove.

SOLUBILITY Soluble in propylene glycol and in most fixed oils with slight opalescence, and it is relatively insoluble in glycerin and in mineral oil.

Insoluble in water.

ODOR Characteristic odor of clove

FLAMMABILITY May be combustible at high temperature

AUTO-IGNITION Not available BOILING POINT

EVAPORATION RATE Not available EXPLOSIVE LIMIT Not available FLASH POINT >93 °C, >199.4

Not available

DECOMPOSITION

TEMPERATURE

Not available

*F



log P (OCTANOL-WATER)	Not available	LOWER FLAMMABLE/ EXPLOSIVE LIMIT(S)	Not available	MELTING/FREEZING POINT	Not available
PARTICLE CHARACTERISTICS	Not available	OXIDIZING PROPERTY	Not available	рН	Not available
RELATIVE DENSITY (WATER = 1)	Not available	SPECIFIC GRAVITY	1.000 - 1.050 (25°C)	UPPER FLAMMABLE/ EXPLOSIVE LIMIT(S)	Not available
VAPOR DENSITY (AIR = 1)	Not available	VAPOR PRESSURE	Not available	VISCOSITY	Not available

The physical data presented above are typical values and should not be construed as a specification.

SECTION 10: STABILITY AND REACTIVITY

Not established REACTIVITY

CHEMICAL STABILITY Stable under recommended storage conditions

INCOMPATIBLE MATERIALS Strong oxidants. PVC bottles softened and distorted fairly rapidly in the presence of clove oil, which should not

be stored or dispensed in such bottles.

HAZARDOUS DECOMPOSITION

PRODUCTS

Toxic fumes of carbon monoxide, carbon dioxide, nitrogen oxides and other gases may occur

HAZARDOUS POLYMERIZATION Will not occur Not established

POSSIBLITY OF HAZARDOUS

REACTION

CONDITIONS TO AVOID Moisture, sunlight and extreme temperatures

SECTION 11: TOXICOLOGICAL INFORMATION

ACUTE TOXICITY Oral: Rat: LD50: (mg/kg): 1370-2650 Dermal: Rabbit LD50: (mg/kg): 5000

Inhalation: Rat: LD50: (mg/L/4hr): Not available

SKIN CORROSION/IRRITATION Causes skin irritation.

SERIOUS EYE DAMAGE/EYE Causes serious eye irritation.

IRRITATION

RESPIRATORY SENSITIZATION Respiratory sensitization: Due to lack of data the classification is not possible.

Skin sensitization: Contains Eugenol which may cause hypersensitivity.

SKIN SENSITIZATION Not available

GERM CELL MUTAGENICITY Due to lack of data the classification is not possible.

CARCINOGENICITY **OSHA** CLOVE LEAF OIL (Natural) is not listed. NTP CLOVE LEAF OIL (Natural) is not listed.

IARC CLOVE LEAF OIL (Natural) is not evaluated.

California This product does not contain any chemicals known to the State of California to cause

Proposition 65 cancer, birth defects, or any other reproductive harm.



ADDITIONAL CARCINOGENICITY

INFORMATION

Due to lack of data the classification is not possible.

REPRODUCTIVE TOXICITY

Due to lack of data the classification is not possible.

Inhalation - May cause respiratory irritation.

SPECIFIC TARGET ORGAN TOXICITY -SINGLE EXPOSURE

SPECIFIC TARGET ORGAN TOXICITY -

REPEATED EXPOSURE

ASPIRATION HAZARDS

SIGNS AND SYMPTOMS OF

EXPOSURE

Due to lack of data the classification is not possible.

Due to lack of data the classification is not possible.

ROUTES OF EXPOSURE:

Oral, Dermal, Inhalation, Eye contact

EARLY ONSET SYMPTOMS RELATED TO EXPOSURE:

Not available

DELAYED HEALTH EFFECT FROM EXPOSURE:

Not available

POTENTIAL HEALTH EFFECTS

Inhalation May be harmful if inhaled. Causes respiratory tract irritation.

Ingestion Harmful if swallowed.

Skin May be harmful if absorbed through skin. Causes skin irritation.

Eyes Causes serious eye irritation.

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY EC50: 48 Hr: Crustacea: (mg/L): Not available

> LC50: 96 Hr: Fish: (mg/L): Not available IC50: 72 Hr: Algae: (mg/L): Not available

PERSISTENCE AND DEGRADABILITY

BIOACCUMULATIVE POTENTIAL

MOBILITY IN SOIL

Generally biodegradable.

Not applicable

Unlikely to bioaccumulate. Contaminated water must be cleared before entering sewerage.

Insoluble in water. Very low water solubility and will form a surface film.

OTHER ADVERSE EFFECTS Not available

This product is not intended to be released into the environment

SECTION 13: DISPOSAL CONSIDERATIONS

DISPOSAL METHODS

Dispose of in accordance with federal / local laws and regulations. Avoid release into the environment.

SECTION 14: TRANSPORT INFORMATION

UN PROPER SHIPPING NAME Not dangerous good

UN NUMBER Not applicable CLASS Not applicable **PACKING GROUP**

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AUSTRALIA

HAZCHEM Not Applicable

EU

TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL 73/78 AND THE IBC CODE

Not listed

ENVIRONMENTAL HAZARDS
SPECIAL SHIPPING INFORMATION

Not available Not applicable

SECTION 15: REGULATORY INFORMATION

UNITED STATES REGULATIONS

Chemical Name & CAS	CERCLA 40 CFR Part 302.4	SARA (Title III) 40 CFR Part 372.65	EPA 40 CFR Part 355		Right-to-know Pennsylvania New Jersey Massachusetts			California Prop 65
CLOVE LEAF OIL (Natural) 8015-97-2	N/L	N/L	N/L	N/L	N/L	N/L	N/L	N/L

N/L = Not Listed; X = Listed

AUSTRALIAN REGULATIONS

Chemical Name & CAS	Poisons and Therapeutic Goods	Therapeutic Goods Act	Code of Practices - Illicit Drug Precursors	Poisons Standard	Work Health and Safety Regulations	Inventory of Industrial Chemcials
CLOVE LEAF OIL (Natural) 8015-97-2	N/L	Listed as Schedule 6	N/L	Listed	N/L	N/L

N/L = Not Listed

EU REGULATIONS

Chemical Name & CAS	REACH ANNEX XVII	REACH ANNEX XIV	EC 1005/2009	EC 850/2004	EC 1107/2009	PIC - Prior Informed Consent Regulation	EC 2012/18
CLOVE LEAF OIL (Natural) 8015-97-2	N/L	N/L	N/L	N/L	N/L	N/L	N/L

N/L = Not Listed; X = Listed

Any EU regulation not listed above is not applicable to this product.

SUBJECT TO INTERNATIONAL

Not applicable

AGREEMENT

SECTION 16: OTHER INFORMATION

REFERENCES Available upon request

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ABBREVIATIONS AND ACRONYMS

ACGIH - American Conference of Governmental Industrial Hygienists; AIHA WEEL - American Industrial Hygiene Association Workplace Environment Exposure Levels; CAESAR - Computer Assisted Evaluation of industrial chemical Substances According to Regulations; CAS - Chemical Abstract Service; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; EC50 - Effective Concentration, 50%; EPA - Environmental Protection Agency; GHS - Global Harmonized System; HMIS - Hazardous Materials Information System; HSE - Health and Safety Executive; HSIS - Hazardous Substances Information System; IARC - International Agency for Research on Cancer; IDLH - Immediately Dangerous to Life or Health; IRFMN - Ready Biodegradability Model; ISS - Instituto Superiore Sanità; LC50 - Lethal Concentration, 50%; LD50 - Lethal Dose, 50%; MSHA - Mine Safety and Health Administration; NIOSH - National Institute for Occupational Safety and Health; NTP - National Toxicology Program; OSHA PEL - Occupational Safety & Health Administration Permissible Exposure Limits; QSAR - Quantitative Structure-activity relationship; REL - Recommended Exposure Limit; SARA - Superfund Amendments and Reauthorization Act; STEL - Short Term Exposure Limit; TLV - Threshold Limit Value; TWA - Time Weighted Average; WHMIS - Workplace Hazardous Materials Information System

LAST REVISION SUPERSEDES 02/2023

02/2017

For a list of changes to the SDS since the last version, please communicate with MEDISCA at www.medisca.com

DISCLAIMER

This document was created in accordance with OSHA, Safe Work Australia and WHMIS regulations. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. MEDISCA® shall not be held liable for any damage resulting from handling or from contact with the above product. Recipients of the product must take responsibility for observing existing laws and regulations.

SUPPLEMENTARY INFORMATION

For all country specific requirements not outlined on this Safety Data Sheet, please request Supplementary Page to this Safety Data Sheet.