



SILVER FERN CHEMICAL

Material Safety Data Sheet

CLOVE STEM OIL

SECTION 1: IDENTIFICATION

Product Name: Clove Stem Oil, *Eugenia caryophyllata*

CAS Number: 8000-34-8

Common Name: Cengkeh / Tangkai Cengkeh (Indonesian); Clove Stem (English)

Chemical Formula: Not available

Synonyms: Cloves (*Syzygium aromaticum*, *Eugenia aromaticum* or *Eugenia caryophyllata*)

Company

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SECTION 2: HAZARD IDENTIFICATION

Potential Health Effects:

Hazardous in case of ingestion. Slightly hazardous in case of skin contact (irritant), of eye contact (irritant), of inhalation.

Potential Chronic Health Effects:

Hazardous in case of ingestion. Slightly hazardous in case of skin contact (irritant), of eye contact (irritant), of inhalation.

Carcinogenic Effects: Not available. **Mutagenic Effects:** Not available. **Teratogenic Effects:** Not available.

Developmental Toxicity: Not available.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Name: CLOVE STEM OIL
CAS Number: 8000-34-8
% by Weight: 100

SECTION 4: FIRST AID MEASURES



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Eye Contact: No known effect on eye contact, rinse with water for a few minutes.

Skin Contact:

After contact with skin, wash immediately with plenty of water. Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. Cover the irritated skin with an emollient. If irritation persists, seek medical attention. Wash contaminated clothing before reusing.

Serious Skin Contact: Not available.

Inhalation: Allow the victim to rest in a well ventilated area. Seek immediate medical attention.

Serious Inhalation: Not available.

Ingestion:

Do not induce vomiting. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.

Serious Ingestion: Not Available.

SECTION 5: FIRE AND EXPLOSION DATA

Flammability of the Product: May be combustible at high temperature.

Auto-Ignition Temperature: Not Available.

Flash Points: Not Available.

Flammable Limits: Not Available.

Products of Combustion: Not Available.

Fire Hazards in Presence of Various Substances: Not Available.

Risks of explosion of the product in presence of mechanical impact: Not Available.

Risks of explosion of the product in presence of static discharge: Not Available.

Fire Fighting Media and Instructions:

SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. Do not use water jet.

Special Remarks on Fire Hazards: Not Available.

Special Remarks on Explosion Hazards: Not Available.

SECTION 6: ACCIDENTAL RELEASE MEASURE

Small Spill: Absorb with an inert material and put the spilled material in an appropriate waste disposal.



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Large Spill: Absorb with an inert material and put the spilled material in an appropriate water disposal. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

SECTION 7: HANDLING & STORAGE

Precautions:

Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. Do not breathe gas/fumes/vapor/spray.

Storage:

Keep container dry. Keep in a cool place. Ground all equipment containing material. Keep container tightly closed. Keep in a cool, well-ventilated place. Combustible materials should be stored away from extreme heat and away from strong oxidizing agents.

SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work station location.

Personal Protection: Safety glasses. Lab coat.

Personal Protection in Case of a Large Spill:

Splash goggles. Full suit. Boots. Gloves. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Exposure Limits: Not Available.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	Violet or purple brown liquid
Odor	:	Characteristic odor
Solubility	:	Soluble in 2 mL of 70% alcohol
Specific Gravity	:	1,033 - 1,065 @ 25°C
Refractive Index	:	1.510 - 1.545 @ 20°
Optical Rotation	:	0 to 1°30' @ 20°C

SECTION 10: STABILITY AND REACTIVITY DATA



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Instability Temperature: Not Available.

Conditions of Instability: Not Available.

Incompatibility with various substances: Not Available.

Corrosivity: Non-corrosive in presence of glass.

Special Remarks on Reactivity: Not Available.

Special Remarks on Corrosivity: Not Available.

Polymerization: No.

SECTION 11: TOXICOLOGICAL INFORMATION

Routes of Entry: Ingestion.

Toxicity to Animals:

LD50: Not Available. LC50: Not Available.

Chronic Effects on Humans: Not Available.

Other Toxic Effects on Humans:

Hazardous in case of ingestion. Slightly hazardous in case of skin contact (irritant), of inhalation.

Special Remarks on Toxicity to Animals: Not Available.

Special Remarks on Chronic Effects on Humans: Not Available.

Special Remarks on other Toxic Effects on Humans: Not Available.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity: Not Available.

BOD5 and COD: Not Available.

Products of Biodegradation:

Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the Products of Biodegradation: The products of degradation are more toxic.



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Special Remarks on the Products of Degradation: Not Available.

SECTION 13: DISPOSAL CONSIDERATIONS

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

SECTION 14: TRANSPORT INFORMATION

DOT Classification: Not a DOT controlled materials (United States)

Special Provisions for Transport: Not Available

Not regulated.

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

SECTION 15: OTHER REGULATORY INFORMATION

Other Regulations: Not Available.

SECTION 16: OTHER INFORMATION

Revision Information:

No Changes.

Date Created: 7/06/09

Date Last Updated: 10/20/10



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