



Material Safety Data Sheet

NFPA	HMIS	Personal Protective Equipment
220	Health Hazard 2 Fire Hazard 2	
	Reactivity	See Section 15.

Section 1. Chemical Product and Company Identification			Page Number: 1	
Common Name/ Trade Name	Clove oil	Catalog Number(s).	CL110, CL130	
		CAS#	8000-34-8	
Manufacturer	SPECTRUM LABORATORY PRODUCTS INC.	RTECS	GF6900000	
	14422 S. SAN PEDRO STREET GARDENA, CA 90248	TSCA	TSCA 8(b) inventory: Clove oil	
Commercial Name(s)	Not available.	CI#	Not available.	
Synonym	Clove bud oil; Oil of clove bud; Oils, clove bud Clove bud, oil (Eugenia spp.); Eugenia caryophyllata bud oil; Oils, Eugenia caryophyllata bud		IN CASE OF EMERGENCY CHEMTREC (24hr) 800-424-9300	
Chemical Name	Oils, clove			
Chemical Family	Not available.	CALL (310) 5	16-8000	
Chemical Formula	Not available.			
Supplier	SPECTRUM LABORATORY PRODUCTS INC. 14422 S. SAN PEDRO STREET GARDENA, CA 90248	<u>- </u>		

Section 2.Composition and Information on Ingredients						
				Exposure Limits		
Name		CAS#	TWA (mg/m³)	STEL (mg/m³)	CEIL (mg/m³)	% by Weight
1) Clove oil		8000-34-8				100
Toxicological Data on Ingredients	Clove oil: ORAL (LD50): DERMAL (LD50):	Acute: 2650 n			·	

Section 3. Hazards Identification		
Potential Acute Health Effects	Hazardous in case of skin contact (irritant), of eye contact (irritant). Slightly hazardous in case of skin contact (permeator), of ingestion, of inhalation.	
Potential Chronic Health Effects	CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. Repeated or prolonged exposure is not known to aggravate medical condition.	

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Section 4. First Aid Measures		
Eye Contact	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.	
Skin Contact	In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.	
Serious Skin Contact	Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek medical attention.	
Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.	
Serious Inhalation	Not available.	
Ingestion	Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.	
Serious Ingestion	Not available.	

Section 5. Fire and Explosion Data		
Flammability of the Product	Combustible.	
Auto-Ignition Temperature	Not available.	
Flash Points	CLOSED CUP: 87.778℃ (190年).	
Flammable Limits	Not available.	
Products of Combustion	Not available.	
Fire Hazards in Presence of Various Substances	Flammable in presence of open flames and sparks, of heat.	
Explosion Hazards in Presence of Various Substances	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 Measures		
Small Spill	Absorb with an inert material and put the spilled material in an appropriate waste disposal.	
Large Spill	Combustible material. Keep away from heat. Keep away from sources of ignition. Stop leak if without risk. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.	

Section 7. Handling and Storage		
Precautions	Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not ingest. Do not breathe gas/fumes/ vapor/spray. Wear suitable protective clothing. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes.	
Storage	Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame). Sensitive to light. Store in light-resistant containers.	

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Section 8. Exposure Controls/Personal Protection		
Engineering Controls	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	Splash goggles. Lab coat. Gloves. Respiratory protection is not necessary for normal handling. Adequate general (room) ventilation or local exhaust (fume hood) is sufficient. Use a vapor respirator under conditions where exposure to the substance is apparent (e.g. generation of high concentrations of mist or vapor, inadequate ventilation, development of respiratory tract irritation), and engineering controls are not feasible. Be sure to use an approved/certified respirator or equivalent.	
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			
Physical state and appearan	nce Liquid.	Odor	Characteristic odor of clove
Molecular Weight	Not available.	Taste	Characteristic. Taste of clove
pH (1% soln/water)	Not applicable.	Color	Colorless to light yellow.
Boiling Point	Not available.		
Melting Point	Not available.		
Critical Temperature	Not available.		
Specific Gravity	1.041-1.0630 @ 20 deg. C 1.038 - 1.06 @ 25 deg. C. (Water = 1)		
Vapor Pressure	Not available.		
Vapor Density	Not available.		
Volatility	Not available.		
Odor Threshold	Not available.		
Water/Oil Dist. Coeff.	Not available.		
Ionicity (in Water)	Not available.		
Dispersion Properties	Not available.		
Solubility	Insoluble in cold water, hot water. Soluble in alcohol.		

Section 10. Stability and Reactivity Data		
Stability	The product is stable.	
Instability Temperature	Not available.	
Conditions of Instability	Heat, ignition sources, light, incompatible materials	
Incompatibility with various substances	Reactive with oxidizing agents.	
Corrosivity	Non-corrosive in presence of glass.	
Special Remarks on Reactivity	Sensitive to light.	
Special Remarks on Corrosivity	Not available.	

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Polymerization	Will not occur.				
Section 11. Toxicological Information					
Routes of Entry	Absorbed through skin. Eye contact. Inhalation.				
Toxicity to Animals	Acute oral toxicity (LD50): 2650 mg/kg [Rat]. Acute dermal toxicity (LD50): 5000 mg/kg [Rabbit].				
Chronic Effects on Humans	Not available.				
Other Toxic Effects on Humans	Hazardous in case of skin contact (irritant). Slightly hazardous in case of skin contact (permeator), of ingestion, of inhalation.				
Special Remarks on Toxicity to Animals	Not available.				
Special Remarks on Chronic Effects on Humans	May affect genetic material (mutagenic)				
Special Remarks on other Toxic Effects on Humans	Acute Potential Health Effects: Skin: Can cause skin irritation. It can be absorbed through the skin. Eyes: Causes eye irritation. Inhalation: Inhalation of mist or vapor may cause respiratory tract irritation. Ingestion: Low toxicity. Low hazard. Chronic Potential Health Effects:				

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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	Not available.			
Special Remarks on the Products of Biodegradation	Not available.			

red blood cell count).

Ingestion: Prolonged or repeated ingestion may affect the blood (changes in serum composition; changes in

Section 13. Disposal Considerations Waste Disposal Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Section 14. Transport Information			
DOT Classification	Not a DOT controlled material (United States).		
Identification	Not applicable.		
Special Provisions for Transport	Not applicable.		
DOT (Pictograms)			

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Clove oil Page Number: 5 Section 15. Other Regulatory Information and Pictograms TSCA 8(b) inventory: Clove oil Federal and State Regulations California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer which would require a warning under the statute: No products were found. Proposition 65 **Varnings** California prop. 65: This product contains the following ingredients for which the State of California has found to cause birth defects which would require a warning under the statute: No products were found. **Other Regulations** OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200). EINECS: This product is not on the European Inventory of Existing Commercial Chemical Substances. Canada: Listed on Canadian Domestic Substance List (DSL). China: Listed on National Inventory. Japan: Not listed on National Inventory (ENCS). Korea: Listed on National Inventory (KECI). Philippines: Listed on National Inventory (PICCS). Australia: Listed on AICS. CLASS B-3: Combustible liquid with a flash point between 37.8℃ (100年) and 93.3℃ **Other Classifications** WHMIS (Canada) CLASS D-2B: Material causing other toxic effects (TOXIC). DSCL (EEC) R36/38- Irritating to eyes and skin. S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S37- Wear suitable gloves. **Health Hazard** HMIS (U.S.A.) **National Fire Protection** Flammability **Association (U.S.A.)** Fire Hazard 2 Reactivity Reactivity 0 Specific hazard Personal Protection WHMIS (Canada) (Pictograms) **DSCL** (Europe) (Pictograms) TDG (Canada) (Pictograms) ADR (Europe) (Pictograms) **Protective Equipment** Gloves. Lab coat. Wear appropriate respirator when ventilation is inadequate.

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	Splash goggles.			

Section 16. Other Information				
MSDS Code	C4420			
References	Not available.			
Other Special Considerations	Not available.			
Validated by Sonia Owen on 10/28/2010.		Verified by Sonia Owen.		
		Printed 10/28/2010.		
CALL (310) 516-800	00			

Notice to Reader

All chemicals may pose unknown hazards and should be used with caution. This Material Safety Data Sheet (MSDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this MSDS. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this MSDS is based on technical data judged to be reliable, Spectrum Quality Products, Inc. assumes no responsibility for the completeness or accuracy of the information contained herein.