




# West Coast

## aromatics

### Safety Data Sheet (SDS)

Revision Date: November 29, 2024

01. IDENTIFICATION OF THE SUBSTANCE/PREPARATION & THE COMPANY/UNDERTAKING					
Product Name		Cardamom Essential Oil			
Biological Definition		Volatile oil of seeds of <i>Ellettaria cardamomum</i> (L.) Maton.			
INCI Name		Elettaria cardamomum seed oil			
Botanical name		Elettaria cardamomum			
Country of Origin		India			
Product use		Domestic and Industrial			
Synonyms & Trade Names		Oil of Grains of Paradise			
Supplier		West Coast Aromatics, 2701 Conestoga Dr Unit# 105 Carson City NV 89706 Nevada, USA Tel: +1-775-387-3000			
Emergency phone number		24 hours emergency telephone number (CHEMTREC): 800-424-9300			
Reach Registration Number <small>(According to EU Reg 1907/2006)</small>		N/A			
FEMA No.	2241	CoE No.r	180	Mol Formula	C22H38O3
CAS No.	8000-66-6	EINECS No	277-143-2	EINECS CAS No.	85940-32-5
02. HAZARDS IDENTIFICATION					
Classification (1999/45)		Xi+N; R10-43-51/53, S24-37-61			
GHS: Classification (EC 1272/2008)		UN-GHS: FL 3, SCI 2, EDI 2A, SS 1, EH A2,C2 EU-CLP: FL 3, SCI 2, EDI 2, SS 1, EH A2,C2			
Labe in accordance with (EC) No1272/2008 Labe in accordance with (US) Labe in accordance with (CA)		 GHS07      GHS08      GHS08      GHS09			
Signal Word		Danger			
Contains		Linalyl acetate, linalool, limonene, geraniol, citral.			
Hazard Statements		H226 Flammable liquid & vapor H315 Causes skin irritation H317 May cause an allergic skin reaction H319 Causes serious eye irritation H411 Toxic to aquatic life			
Precautionary Statements		P262 Do not get in eyes, on skin or on clothing P280 Wear protective gloves/protective clothing/eye protection/face protection. P273 Avoid release to the environment P305/351/338 Rinse cautiously with water for several minutes. Remove contact lenses if present and easy continue rinsing.			
Supplementary Precautionary Statements		P391 Collect spillage			
PBT or vPvB according to Annex XIII		No additional data available.			
Adverse physio-chemical properties		Combustible but will not self-ignite			
Adverse effects on human health		Can cause irritation/sensitization of skin & eyes.			



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03. COMPOSITION/INFORMATION ON INGREDIENTS		
INGREDIENT CONTRIBUTING TO THE HAZARD		CONTENT
Terpinyl acetate	UN-GHS: SCI 3, EH A2,C2	~ 43 %
Cineols	UN-GHS: ATO 5(2500); SCI 3	~ 33 %
Linalyl acetate	UN-GHS: EDI 2A, EH A2, SCI 2	~ 6 %
Linalool	UN-GHS: ATO 5(3000), EDI 2A, EH A3,SCI2	~ 4 %
alpha-Terpineol	UN-GHS: ATO 5(4300); SCI 2; EDI 2A	~ 2 %
Limonene	UN-GHS: SCI 2; SS 1; EH A1,C1	~ 2 %
Pinenes	UN-GHS: ATO 5(3700), SCI 2, SS 1	~ 2 %
Geraniol	UN-GHS: ATO 5(4200); SCI 2; EDI 1; SS 1; EH A2	~ 1 %
Nerolidol	UN-GHS: EDI 2A, EH A1, EH C1, SCI 3	~ 1 %
Citral	UN-GHS: ATO 5(4950); ATD 5(2250); SCI 2; SS 1; EH A2	~ 0.5 %
04. FIRST AID MEASURES		
General Information	See categories below	
Inhalation	Remove from exposure area to fresh air. Contact a doctor if necessary.	
Ingestion	Wash mouth out with water and obtain medical advice immediately.	
Skin Contact	Remove contaminated clothing. Wash thoroughly with soap and water. Seek medical advice if irritation persists or there is any sign of tissue damage.	
Eye Contact	Flush with plenty of water and seek medical advice if necessary.	
05. FIRE-FIGHTING MEASURES		
Extinguishing Media	Use CO <sub>2</sub> , Dry Powder or Foam type extinguishers, spraying extinguishing media to base of flames. Do not use direct water jet on burning material.	
Special Fire Fighting Procedures	Wear protective clothing. Avoid inhalation of vapors. Use breathing apparatus with independent air supply	
Specific Hazards	None	
Protective Measures in Fire	Closed containers may build up pressure when exposed to heat and should be cooled with water spray	
06. ACCIDENTAL RELEASE MEASURES		
Personal Precautions	Maintain good occupational and personal hygiene. Avoid contact with skin and eyes	
Environmental Precautions	Do not discharge directly into drains or soil. Keep away from surface and ground water	
Spill Clean Up Methods	Soak up spillage with sand or other inert material. Transfer soaked material to suitable waste container and dispose according to prevailing regulations.	
07. HANDLING AND STORAGE		
Usage Precautions	Apply good manufacturing practice & industrial hygiene practices, ensuring proper workplace ventilation. Observe good personal hygiene, and do not eat, drink or smoke whilst handling.	
Storage Precautions	Store in tightly closed original container, in a cool, dry & ventilated area away from heat sources & protected from light. Keep air contact to a minimum.	





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08. EXPOSURE CONTROLS/PERSONAL PROTECTION	
Protective Equipment	  Goggles      Gloves
Engineering Measures	Ensure good ventilation of working area.
Respiratory Equipment	As required. Avoid breathing product vapor.
Hand Protection	Avoid all skin contact. Use chemically resistant gloves if required.
Eye Protection	Use safety glasses.
Other Protection	As required
Hygiene Measures	Wash hands with soap & water after handling
09. PHYSICAL AND CHEMICAL PROPERTIES	
Appearance	Mobile liquid
Color	Colorless to pale yellow
Odor	Penetrating, aromatic, characteristic of cardamom.
Relative Density	0.917 to 0.947 @ 20°C
Flash Point (°C)	59 c/c
Refractive Index	1.462 to 1.466 @ 20°C
Melting Point (°C)	Data not found
Boiling Point (°C)	188 @ 760 mm Hg
Vapor Pressure	Data not found
Solubility in Water@20°C	Insoluble
Optical Rotation	+22° to +44° @ 20 °C
Auto ignition temperature (°C)	Data not available
10. STABILITY AND REACTIVITY	
Stability	Complies with REACH guidance for SDS as circulated by ECHA 2011. It presents no significant reactivity hazards, by itself or in contact with water
Conditions to Avoid	Avoid storage temperatures above 25°C
Material to Avoid	Avoid contact with strong acids, alkalis and oxidizing agents.
Hazardous Decomposition Products	Liable to cause smoke & acrid fumes during combustion: carbon monoxide, carbon dioxide & other non-identified organic compounds may be formed.
11. TOXOLOGICAL INFORMATION	
Acute Toxicity	Acute oral toxicity: LD50 orl-rat 5g/Kg FCT 12, 837 (1974) Acute dermal toxicity: LD50 skn-rbt >5g/Kg FCT 12, 837 (1974)
Skin corrosion / irritation	Category 2 under GHS & CLP following EC 1272/2008 guidelines
Serious eye damage / irritation	Category 2A under GHS; Category 2 under CLP following EC 1272/2008 guidelines
Respiratory or skin sensitization	Skin sensitizer Category1 according to GHS & CLP following EC 1272/2008 guidelines
Germ Cell Mutagenicity	Mutagenic effects not proven. Anti-mutagenic effects seen in 0.40 and more concentration (mg/plate) of Elletaria cardamomum by the bacterial reverse mutation assay in Salmonella typhimurium TA98 strains without S9: Rahimifard N. (2010) J Medicinal Plants 9, 35, 139-142.
Carcinogenicity	Not listed as carcinogenic





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Reproductive toxicity	Not considered reprotoxic
STOT single exposure	No data found
STOT repeated exposure	No data found
Aspiration hazard	Not listed under GHS or CLP as hazardous
Photo toxicity	Not photo-toxic
Other Information	None
<b>12. ECOLOGICAL INFORMATION</b>	
Ecotoxicity	No weight of evidence data available
Mobility	Data not found
Persistence & Biodegradability	Data not found
Bioaccumulation Potential	Data not found
PBT Assessment Results	Data not found
Precautions	Do not discharge into the environment, especially not into waterways, sewers and the sea.
<b>13. DISPOSAL CONSIDERATIONS</b>	
Disposal Methods	Dispose of product in accordance with local, state or provincial and federal regulations. Check with local municipal authority to ensure compliance Do not release into the environment. Collect waste into suitable containers and contact hazardous chemical disposal company.
<b>14. TRANSPORT INFORMATION</b>	
Warning Icon	 
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID N.O.S
UN No. Road	UN 3082
ADR Class	Class 9
Hazard No (ADR)	90
Hazchem Code	3Y
UN No. SEA	UN 3082
IMDG Class	Class 9
IMDG Pack Gr.	Pk Gp III
EMS	F-E, S-E
UN No. AIR	UN 3082
Air Class	Class 9
Air Pack Gr.	Pk Gp III
<b>15. REGULATORY INFORMATION</b>	
EU Directives	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 <sup>th</sup> Dec 2006 Concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 199/45/EC and repealing Council Regulation Council Regulation (EEC) No793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, and 93/105/EEC and 2000/21/EC including amendments.
US Federal Regulations	Listed on the United States TSCA (Toxic Substances Control Act) inventory



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California Proposition 65	This product can expose you to chemicals including myrcene, which is known to the State of California to cause cancer. For more information, go to <a href="http://www.p65warnings.ca.gov">www.p65warnings.ca.gov</a>	
CANADA Regulations	Listed on the Canadian DSL (Domestic Substances List)	
Statutory Instruments	The Chemicals (Hazard Information and Packaging for Supply Regulations 2009 (S.I. 2009 No 716)	
Approved Code of Practice	Classification and Labelling of Substances and Preparations Dangerous for Supply. Safety Data Sheets for Substances and Preparations	
Guidance Notes	Workplace Exposure Limits EH40. CHIP for everyone HSG 108.	
NFPA Rating 	<b>HMIS Rating</b>	
	HEALTH	1
	FLAMMABILITY	2
	PHYSICAL HAZARD	0
	PERSONAL PROTECTION	-
<b>16. OTHER INFORMATION</b>		
Revision Date	11/24	
Rev No/Repl, SDS Generated	6	
Risk Phrases in Full	R10 Flammable liquid R43 May cause sensitisation by skin contact R51/53 Toxic to aquatic organisms and may cause long-term effects in the aquatic environment	
Hazard Statements in Full	H226 Flammable liquid & vapour H315 Causes skin irritation H317 May cause an allergic skin reaction H319 Causes serious eye irritation H411 Toxic to aquatic life	
Other Information	Complies with REACH guidance for SDS as circulated by ECHA 2011.	

### Disclaimer & Caution

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