

SAFETY DATA SHEET (SDS)


Eucalyptus Oil - Pg 1

Revision Date: 09/25/2018

SECTION 1 - CHEMICAL, PRODUCT & COMPANY INFORMATION

Product Name:	EUCALYPTUS OIL	
Product Number/Code:	EUC0004	
Recommended Use:	For body art applications	
Restrictions on use:	None known	
Emergency Number:	ChemTel, Inc. - Contract #MIS9128344 North America: 1-800-255-3924 International: 1-813-248-0585	

SECTION 2 - HAZARD(S) IDENTIFICATION

This product is not considered to be or contain hazardous chemicals based on evaluations made under the OSHA Hazard Communication Standard, reference 29 CFR 1910.1200.		
Toxicological Data on Ingredients:		
Hazard Classification		
Physical Hazards:	Flammable Liquid	Category 3
Health Hazards:	Skin Irritant	Category 2
	Skin Sensitization	Category 1
	Aspiration Hazard	Category 1
Environmental Hazards:	Hazardous to the aquatic environment, acute hazard	Category 2
	Hazardous to the aquatic environment, chronic hazard	Category 2
Label Elements		
Pictogram:		
Signal Words:	DANGER	
Hazard Statements-EU:	H226 Flammable liquid and vapour. H304 May be fatal if swallowed and enters airways. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H400 Very toxic to aquatic life. H401 Toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. H411 Toxic to aquatic life with long lasting effects.	

Precautionary Statements-EU:	
Prevention:	P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P233 Keep container tightly closed. P240 Ground/Bond container and receiving equipment. P241 Explosion-free electrical equipment and lighting with earth. P242 Use only non-sparking tools. P243 Take precautionary measures against static discharge. P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P264 Wash hands thoroughly after handling. P272 Contaminated work clothing must not be allowed out of the workplace. P273 Avoid release into the environment. P280 Wear protective gloves/protective clothing/eye protection.
Response:	P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor. P302+352 IF ON SKIN: Wash with plenty of soap and water. P303+P361+P353 IF ON SKIN(or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P321 Specific treatment (see supplemental first aid instruction on product label). P331 Do NOT induce vomiting. P332+313 If skin irritation occurs: Get medical advice/attention. P333+313 If skin irritation or rash occurs: Get medical advice/attention. P362 +P364 Take off contaminated clothing and wash it before reuse. P363 Wash contaminated clothing before reuse. P370+P378 In case of fire: use media other than water to extinguish.
Storage:	P403+P235 Store in a well-ventilated place. Keep cool. P405 Store locked up.
Disposal:	P391 Collect spillage. P501 Dispose in a safe manner in accordance with local/national regulations.
Hazard(s) not otherwise classified:	No additional information available.

SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

Chemical identity	Content in percent (%)*	CAS #	GHS-US Classification*
Eucalyptol	>= 80%	470-82-6	H226 Flam. Liq. 3 H317 Skin Sens. 1B
+d-Limonene	5-10%	5989-27-5	H226 Flam. Liq. 3 H315 Skin Irrit. 2 H317 Skin Sens. 1B H304 Asp.Tox. 1 H400 Aquatic Acute 1 H410 Aquatic Chronic 1
alpha-Pinene	1-5%	80-56-8	H226 Flam. Liq. 3 H315 Skin Irrit. 2 H317 Skin Sens. 1B H304 Asp.Tox. 1
Gamma Terpinene	1-5%	99-85-4	H226 Flam. Liq. 3 H304 Asp.Tox. 1
p-Cymene	1-5%	99-87-6	H226 Flam. Liq. 3 H304 Asp.Tox. 1 H411 Aquatic Chronic 2

*See section 16 for full text of H-statements

SECTION 4 - FIRST AID MEASURES

Description of first aid measures:	
General information:	Call a physician immediately.
In the event of skin contact:	Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash with plenty of water. Wash contaminated clothing before reuse. If skin irritation occurs: get medical advice/attention. Specific treatment: see supplemental first aid instruction on product label. If skin irritation or rash occurs: get medical advice/attention.
In the event of eye contact:	Rinse eyes with water as a precaution.
In the event of swallowing:	Immediately call a POISON CENTER/doctor. Do not induce vomiting. Call a physician immediately.
In the event of exposure by inhalation:	Remove person to fresh air and keep comfortable for breathing.

SECTION 5 - FIREFIGHTING MEASURES

Suitable extinguishing media:	Dry chemical powder. Water spray. Dry powder. Foam. Carbon dioxide.
Special hazards arising from the substance or mixture:	Flammable liquid and vapour. May form flammable/explosive vapour-air mixture.
Advice for fire fighters:	Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:	Remove ignition sources. Use special care to avoid static electric charges. No open flames. No smoking. Emergency procedures for non-emergency personnel: ventilate spillage area. No open flames, no sparks, and no smoking. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray. For emergency responders: Do not attempt to take action without suitable protective equipment. For further information, refer to section 8.
Environmental precautions:	Avoid release to the environment.
Methods and material for containment and clean up:	Collect spillage. Take up liquid into absorbent material. Notify authorities if product enters sewers or public waters. Dispose of materials or solid residues at an authorized site.

SECTION 7 - HANDLING AND STORAGE

Additional hazards when processed:	Handle empty containers with care because residual vapours are flammable.
Precautions for safe handling:	Ensure good ventilation of the work station. No open flames. No smoking. Take precautionary measures against static discharge. Use only non-sparking tools. Avoid breathing dust/fume/gas/mist/vapours/spray. Keep away from heat, hot surfaces, sparks, open flame and other ignition sources. No smoking. Ground/bond container and receiving equipment. Flammable vapours may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Avoid contact with skin and eyes.
Hygiene measures:	Wash hands thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling product.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters:	
Appropriate engineering controls:	Ensure good ventilation of the work station.
Individual protection measures, such as personal protective equipment:	
Eye/face protection:	Safety glasses.
Skin protection:	Wear suitable protective clothing.
Hand protection:	Protective gloves.
Environmental exposure controls:	Avoid release into the environment.
Respiratory protection:	[In case of inadequate ventilation] wear respiratory protection.



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SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

General information:	
Appearance and physical state:	Liquid
Color:	Colourless
Type of Odor:	Characteristic
Odor threshold:	No data available
Important health, safety and environmental information:	
Initial Boiling Point and Boiling Range:	No data available
Melting Point/Freezing Point:	Not applicable / No data available
Flammability Classification:	No data available
Flash Point:	109°F/42.8°C
Auto-ignition Temperature:	No data available
Decomposition Temperature:	No data available
Explosion limits (lower/upper):	No data available
Flammability Limits (lower/upper):	No data available
Evaporation rate:	No data available
Vapor Pressure:	1.7 mm Hg 20°C
Vapor Density (Air=1):	No data available
Octanol/Water Partition Coefficient (log Pow):	No data available
Specific Gravity:	0.9050-0.9250 (at 25°C)
Bulk Density:	No data available
Water Solubility:	Poorly soluble in water.
pH:	No data available
Viscosity (dynamic/kinematic):	No data available
Explosive Properties:	No data available
Oxidizing Properties:	No data available
Molecular Formula:	No data available
Molecular Weight:	No data available
Relative Density:	0.915

SECTION 10 - STABILITY AND REACTIVITY

Reactivity:	Flammable liquid and vapour.
Chemical stability:	Flammable liquid and vapour. May form flammable/explosive vapour-air mixture.
Possibility of hazardous reactions:	No dangerous reactions known under normal conditions of use.
Conditions to avoid:	Open flame. Overheating. Direct sunlight. Heat. Sparks. Avoid contact with hot surfaces. No flames, no sparks. Eliminate all sources of ignition.
Incompatible materials:	No additional information available.
Hazardous decomposition products:	May release flammable gases.

SECTION 11 - TOXICOLOGICAL INFORMATION

Information on toxicological effects:	
Acute toxicity (list all possible routes of exposure)	
Acute Oral Toxicity:	+d-Limonene (5989-27-5): LD50 oral (Rat): 4,400 mg/kg bodyweight
Acute Dermal Toxicity:	+d-Limonene (5989-27-5): LD50 dermal (rabbit): > 5,000 mg/kg bodyweight
ATE US (oral):	+d-Limonene (5989-27-5): 4,400 mg/kg bodyweight
Skin Corrosion/Irritation:	Causes skin irritation
Serious Eye Damage / Eye Irritation:	Not classified
Respiratory or Skin Sensitization:	May cause an allergic skin reaction
Germ Cell Mutagenicity:	Not classified. Based on available data, the classification criteria are not met.
Carcinogenicity:	Not classified
IARC group:	3 - Not classifiable
Reproductive Toxicity:	Not classified. Based on available data, the classification criteria are not met.
Specific Target Organ Toxicity - single exposure (STOT-se):	Not classified
Specific Target Organ Toxicity - repeated exposure (STOT-re):	Not classified
Aspiration Hazard:	May be fatal if swallowed and enters airways.
Potential Health Effects:	
Skin Contact:	Causes skin irritation. Irritation. May cause an allergic skin reaction.
Ingestion:	May be fatal if swallowed and enters airways. Risk of lung oedema.
Inhalation:	May cause an allergic skin reaction.

SECTION 12 - ECOLOGICAL INFORMATION

Toxicity:	
Ecology - general:	Toxic to aquatic life with long lasting effects.
Ecology - water:	Toxic to aquatic life. Toxic to aquatic life with long lasting effects.
Eucalyptol (470-82-6):	LC50 fish 1: 102 mg/l (96h; Pimephales promelas) Threshold limit (other organisms 1): 40.071 mg/l (720 h; Pimephales promelas; QSAR)
+d-Limonene (5989-27-5):	LC50 fish 1: 720 µg/l (96h; Pimephales promelas; Lethal) EC50 Daphnia 1: 0.36 mg/l (48h; Daphnia magna; GLP) LC50 fish 2: 702 µg/l (96h; Pimephales promelas) Threshold limit algae 1: 150 mg/l (72h; Desmodesmus subspicatus; GLP) Threshold limit algae 2: 2.62 mg/l (72h; Desmodesmus subspicatus)
Persistence and Degradability:	
Eucalyptus Oil (8000-48-4):	May cause long-term adverse effects in the environment.
Eucalyptol (470-82-6):	Water: not biodegradable.
+d-Limonene (5989-27-5):	Persistence and degradability: Readily biodegradable in water. Absorbs into the soil. May cause long-term adverse effects in the environment. ThOD: 3.29 g O ₂ /g substance.
alpha-Pinene (80-56-8)	Persistence and degradability not established.

SECTION 12 - ECOLOGICAL INFORMATION

Persistence and Degradability (cont'd):	
p-Cymene (99-87-6):	May cause long-term adverse effects in the environment.
Gamma Terpinene (99-85-4):	Persistence and degradability not established.
Bioaccumulative Potential:	
Eucalyptol (470-82-6):	Log Pow: 1.84 (Calculated). Low bioaccumulative potential.
+d-Limonene (5989-27-5):	BCF fish 1: 864.8-1,022 (Pisces, Fresh weight) Log Pow: 4.38 (Experimental value; OECD 117, Partition coefficient (n-octanol/water), HPLC method; 37°C. Bioaccumulative potential not established.
alpha-Pinene (80-56-8):	Bioaccumulative potential not established.
p-Cymene (99-87-6):	Bioaccumulative potential not established.
Gamma Terpinene (99-85-4):	Bioaccumulative potential not established.
Mobility in soil (all):	No additional information available.
Other adverse effects:	No additional information available.

SECTION 13 - DISPOSAL CONSIDERATIONS

Waste treatment methods:	
Disposal:	Dispose of contents/container in accordance with licensed collector's sorting instructions. Dispose in a safe manner in accordance with local/national regulations.
Container Disposal:	Handle empty containers with care because residual vapours are flammable. Flammable vapours may accumulate in the container.
Ecology - waste materials:	Hazardous waste due to toxicity.

SECTION 14 - TRANSPORT INFORMATION

DOT:	
Hazard Class:	In accordance with DOT, not regulated for transport.
Transportation of Dangerous Goods:	No additional information available.
IMDG:	
UN number:	1169
UN proper shipping name:	EXTRACTS, AROMATIC, LIQUID
Hazard Class:	3 - Flammable Liquids
Packing group:	III - substances presenting low danger
IATA:	
UN No:	1169
Proper shipping name:	EXTRACTS, AROMATIC, LIQUID
Class:	3 - Flammable Liquids
Packing group:	III - Minor Danger

SECTION 15 - REGULATORY INFORMATION

US Federal Regulations:	
Eucalyptus Oil (8000-48-4):	Listed on United States TSCA (Toxic Substances Control Act) inventory.
Eucalyptol (470-82-6):	Listed on United States TSCA (Toxic Substances Control Act) inventory.
+d-Limonene (5989-27-5):	Listed on United States TSCA (Toxic Substances Control Act) inventory
alpha-Pinene (80-56-8):	Listed on United States TSCA (Toxic Substances Control Act) inventory
p-Cymene (99-87-6):	Listed on United States TSCA (Toxic Substances Control Act) inventory
Gamma Terpinene (99-85-4):	Listed on United States TSCA (Toxic Substances Control Act) inventory
International Regulations:	
CANADA	
Eucalyptol (470-82-6):	Listed on the Canadian DSL (Domestic Substances List)
alpha-Pinene (80-56-8):	Listed on the Canadian DSL (Domestic Substances List)
p-Cymene (99-87-6):	Listed on the Canadian DSL (Domestic Substances List)
EU Regulations:	No additional information available.
National Regulations:	No additional information available.
US State Regulations:	
alpha-Pinene (80-56-8):	US New Jersey - Right to Know Hazardous Substance List US Pennsylvania RTK (Right to Know) List
p-Cymene (99-87-6):	US Pennsylvania RTK (Right to Know) List
California Prop 65:	This product contains no chemicals(s) known to the State of California to cause cancer; birth defects or reproductive harm.

SECTION 16 - OTHER INFORMATION

Health:	1 - Slight Hazard - Irritation or minor reversible injury possible.
Flammability:	2 - Moderate Hazard - Materials which must be moderately heated or exposed to high ambient temperatures before ignition will occur. Includes liquids having a flashpoint at or above 100°F but below 200°F (Classes II & IIIA)
Physical:	0 - Minimal Rating - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense or self-react. Non-explosives.
Personal protection:	B: Safety glasses, Gloves
Full text of H-statements:	
H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H400	Very toxic to aquatic life.
H401	Toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.

Disclaimer:

The information contained in this SDS is based on data from sources considered to be reliable but Dharma Trading Co. does not guarantee the accuracy or completeness thereof. Dharma Trading Co. urges each customer or recipient of this SDS to study it carefully to become aware of and understand the hazards associated with this product. The reader should consider consulting reference works or individuals who are experts in ventilation, toxicology or fire and understand the data in this SDS.

Revision Date: 09/25/2018

Abbreviations:	
ACGIH	American Conference of Governmental Industrial Hygienists
ADR	International carriage of Dangerous goods by Road
AICS	Australian Inventory of Chemical Substances
ATE	Acute Toxicity Estimate
BfR	Bundesinstitut für Risikobewertung recommendations for food contact materials
BCF	Bioconcentration Factor
BOD5	5-day Biochemical Oxygen Demand
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act
CLP	Classification, Labeling and Packaging regulation
COD	Chemical Oxygen Demand DOT Department of Transportation DSL Domestic Substances List
EINECS	European Inventory of Existing Chemical Substances
ECL	Existing Chemicals List (Korea)
ENCS	Existing and New Chemical Substances Inventory (Japan)
EN 689	Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy.
ERG	Emergency Response Guide
GHS	Globally Harmonized System
HMIS	Hazardous Materials Information System IARC International Agency for Research on Cancer IATA International Air Transport Association
ICAO	International Civil Aviation Organization IDLH Immediately Dangerous to Life and Health IMDG International Maritime Dangerous Goods
LD50	Lethal Dose to 50% of test animal population
MAK	Maximale Arbeitsplatz Konzentration
NTP	National Toxicology Program
OEL	Occupational Exposure Limit
OSHA	Occupational Safety & Health Administration
PBT	Persistent, Bioaccumulative and Toxic vPvB Very Persistent and Very Bioaccumulative PEL Permissible exposure limit
PICCS	Philippine Inventory of Commercial Chemical Substances
PNEC	Predicted No Effect Concentration
REACH	Registration, Evaluation and Authorization of Chemical Substances
RID	International carriage of dangerous goods by Rail SARA Superfund Amendments and Reauthorization Act STEL Short Term Exposure Limit
SVHC	Substance of Very High Concern
TLV	Threshold Limit Value
TSCA	Toxic Substances Control Act
TWA	Time Weighted Average
VOC	Volatile Organic Compound
WGK	Wassergefährdungsklasse (Water Hazard Class) WHMIS Workplace Hazardous Material Identification System