



SAFETY DATA SHEET

Preparation Date: 2/20/2018 Revision Date: 2/20/2018 Revision Number: G1

1. IDENTIFICATION

Product identifier

Product code: C1484

Product Name: EUCALYPTOL

Other means of identification

Synonyms: 1,8-Cineol

Cineole 1,8-Cineole

1,8-Epoxy-p-menthane

Eucalyptole Cajeputol

CAS #: 470-82-6
RTECS # OS9275000
CI#: Not available

Recommended use of the chemical and restrictions on use

Recommended use: Flavoring ingredient. Fragrance ingredient. Medication. Cosmetics. Insecticide.

Repellent.

Uses advised against No information available

Supplier: Spectrum Chemical Mfg. Corp

14422 South San Pedro St. Gardena, CA 90248

(310) 516-8000

Order Online At: https://www.spectrumchemical.com

Emergency telephone numberChemtrec 1-800-424-9300Contact Person:Martin LaBenz (West Coast)Contact Person:Ibad Tirmiz (East Coast)

2. HAZARDS IDENTIFICATION

Classification

This chemical is considered hazardous according to the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Considered a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Flammable liquids Category 3

Label elements

Warning

Flammable liquid and vapor

Product code: C1484 Product name: EUCALYPTOL 1/11



Hazards not otherwise classified (HNOC)

Not Applicable

Other hazards

May be harmful if swallowed

Precautionary Statements - Prevention

Keep away from heat/sparks/open flames/hot surfaces. — No smoking Ground/bond container and receiving equipment Use explosion-proof electrical/ventilating/lighting/.../equipment Use only non-sparking tools Take precautionary measures against static discharge Wear eye/face protection Wear protective gloves

Precautionary Statements - Response

IN CASE OF FIRE: Use dry chemical, water spray, alcohol-resistant foam or CO2 to extinguish. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

Precautionary Statements - Storage

Store in a well-ventilated place. Keep cool

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No.	Weight %
Eucalyptol	470-82-6	100

4. FIRST AID MEASURES

First aid measures

General Advice: National Capital Poison Center in the United States can provide assistance if you

have a poison emergency and need to talk to a poison specialist. Call

1-800-222-1222.

Skin Contact: Wash off immediately with soap and plenty of water removing all contaminated clothing and

shoes. Get medical attention if irritation develops. Consult a physician if necessary.

Eye Contact: Flush eyes with water for 15 minutes. Get medical attention if irritation occurs. If symptoms

persist, call a physician.

Inhalation: Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give

oxygen. Get medical attention.

Ingestion: Do not induce vomiting without medical advice. Never give anything by mouth to an

unconscious person. Consult a physician if necessary.

Most important symptoms and effects, both acute and delayed

Product code: C1484 Product name: EUCALYPTOL 2/11

Symptoms Central nervous system effects

Central nervous system depression

May affect respiration

May cause abdominal pain, nausea, vomiting, diarrhea

Muscle weakness

vertigo Somnolence Convulsions Coma

It may affect the kidneys

Indication of any immediate medical attention and special treatment needed

Notes to Physician: Treat symptomatically.

Protection of first-aiders

First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste.

5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media: Dry chemical. Carbon dioxide (CO2). Water spray, mist, or

foam.

Unsuitable Extinguishing Media: Do not use a solid (straight) water stream as it may scatter

and spread fire.

Specific hazards arising from the chemical

Hazardous Combustion Products: Carbon Monoxide, Carbon Dioxide.

Specific hazards: Flammable. May be ignited by heat, sparks or flames.

Vapor may travel considerable distance to source of ignition and flash back .Vapors may form explosive mixtures with air. Most vapors are heavier than air. They will spread along the ground and collect in low or confined areas (sewers, basements, tanks). Container explosion may occur under fire conditions or when heated. Fire may

produce irritating, corrosive and/or toxic gases.

Special Protective Actions for Firefighters

Specific Methods: Water mist may be used to cool closed containers. For

larger fires, use water spray or fog. Cool containers with flooding quantities of water until well after fire is out.

Special Protective Equipment for Firefighters: As in any fire, wear self-contained breathing apparatus

pressure-demand, MSHA/NIOSH (approved or equivalent)

and full protective gear

Product code: C1484 Product name: EUCALYPTOL 3 / 11

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions: Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Avoid

contact with skin, eyes and clothing. Use personal protective equipment. Remove all sources of ignition. Pay attention to flashback. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use spark-proof tools and explosion-proof equipment. In case of large spill, water spray or vapor suppressing foam may be used to reduce vapors, but may not prevent ignition in closed

spaces.

Environmental precautions Prevent further leakage or spillage if safe to do so. Prevent product from entering

drains. Prevent entry into waterways, sewers, basements or confined areas.

Methods and material for containment and cleaning up

Methods for containment Stop leak if you can do it without risk. Absorb spill with inert material (e.g.

vermiculite, dry sand or earth). In case of large spill, dike if needed. Dike far

ahead of liquid spill for later disposal.

Methods for cleaning up

Use appropriate tools to put the spilled material in a suitable chemical waste

disposal container. Use only non-sparking tools. Clean contaminated surface

thoroughly.

7. HANDLING AND STORAGE

Precautions for safe handling

Technical Measures/Precautions:

Provide sufficient air exchange and/or exhaust in work rooms. Remove all sources of ignition. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Keep away from incompatible materials.

Safe Handling Advice

Avoid contact with skin, eyes and clothing. Wear personal protective equipment. Use only in well-ventilated areas. Keep away from heat and sources of ignition. When using do not smoke. Do not breathe vapors or spray mist. Do not ingest. Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Technical Measures/Storage Conditions:

Keep container tightly closed. Keep in a well-ventilated place. Store at room temperature in the original container. Store away from incompatible materials. Store in a segregated and approved area.

Incompatible Materials:

Oxidizing agents

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

National occupational exposure limits

United States

Components	CAS-No.	OSHA	NIOSH	ACGIH	AIHA WEEL
Eucalyptol	470-82-6	None	None	None	None

Canada

Product code: C1484 Product name: EUCALYPTOL 4 / 11

Components	CAS-No.	Canada - Alberta	Canada - British Columbia	Canada - Ontario	Canada - Quebec
Eucalyptol	470-82-6	None	None	None	None

Australia and Mexico

Components	CAS-No.	Australia	Mexico
Eucalyptol	470-82-6	None	None

Appropriate engineering controls

Engineering measures to reduce exposure: Ensure adequate ventilation, especially in confined areas.

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors and mist below

their respective threshold limit value.

Individual protection measures, such as personal protective equipment

Personal Protective Equipment

Camphor-like.

Eye protection: Goggles or Safety glasses with side-shields

Skin and body protection: Chemical resistant apron

Gloves

Long sleeved clothing

Respiratory protection: Vapor respirator. Be sure to use an approved/certified respirator or equivalent.

Hygiene measures: Avoid contact with skin, eyes and clothing. When using, do not eat, drink or

smoke. Wash hands before breaks and immediately after handling the product.

C10H18O

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:Appearance:Color:LiquidClear.Colorless.Odor:TasteFormula:

Bittersweet.

Molecular/Formula weight:Flammability:Flashpoint (°C/°F):154.25 g/molNo information available47-49°C/116.6-120°F

Flash Point Tested according to: Autoignition Temperature (°C/°F): Lower Explosion Limit (%):

Closed cup No information available No information available

Upper Explosion Limit (%): Melting point/range(°C/°F): Decomposition temperature(°C/°F):

No information available 1.5°C/35°F No information available

Boiling point/range(°C/°F): Bulk density: Density (g/cm3):

176.4°C/349.5°F No information available 0.923

Specific gravity: pH: Vapor pressure @ 20°C (kPa):

No information available No information available 0.2533

Evaporation rate: Vapor density: VOC content (g/L):

Odor threshold (ppm): Partition coefficient
No information available (n-octanol/water):

Product code: C1484 Product name: EUCALYPTOL 5/11

log Kow 2.74 Viscosity:

No information available

Miscibility: Solubility:

Miscible with Ether Soluble in Ethanol
Miscible with alcohol Soluble in Ether

Miscible with Chloroform Slightly soluble in Carbon Tetrachloride

Miscible with glacial Acetic Acid Very slightly soluble in water

Miscible with oils

10. STABILITY AND REACTIVITY

Reactivity

Reactive with oxidizing agents

Chemical stability

Stability: Stable under recommended storage conditions.

Possibility of Hazardous Reactions: Hazardous polymerization does not occur

Conditions to avoid: Heat, flames and sparks. Ignition sources. Incompatible materials.

Incompatible Materials: Oxidizing agents

Hazardous decomposition

Carbon monoxide. Carbon dioxide.

products:

Other Information

Corrosivity: No information available

Special Remarks on Corrosivity: No information available

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Principal Routes of Exposure:

Ingestion. Inhalation.

Acute Toxicity

Component Information

Eucalyptol 470-82-6

LD50/oral/rat = 2480 mg/kg Oral LD50 Rat

LD50/oral/mouse = No information available

LD50/dermal/rabbit = No information available

LD50/dermal/rat = No information available

LC50/inhalation/rat = No information available

LC50/inhalation/mouse = No information available

Other LD50 or LC50information = No information available

Product Information

LD50/oral/rat =

VALUE- Acute Tox Oral = No information available

Product code: C1484 Product name: EUCALYPTOL 6 / 11

LD50/oral/mouse =

Value - Acute Tox Oral = No information available

LD50/dermal/rabbit

VALUE-Acute Tox Dermal = No information available

LD50/dermal/rat

VALUE -Acute Tox Dermal = No information available

LC50/inhalation/rat

VALUE-Vapor = No information available
VALUE-Gas = No information available
VALUE-Dust/Mist = No information available

LC50/Inhalation/mouse

VALUE-Vapor = No information available
VALUE - Gas = No information available
VALUE - Dust/Mist = No information available

Symptoms

Skin Contact: May cause skin irritation.

Eye Contact: May cause eye irritation.

Inhalation May cause irritation of respiratory tract.

Ingestion May be harmful if swallowed. May cause central nervous system depression

including convulsions and unconciousness. May aftect behavior/central nervous system (somnolence, tremor). Unsteady gait. May affect respiration (respiratory depression). May cause difficulty breathing. May cause hypermotility, diarrhea. Ingestion may cause nausea, vomiting. May cause muscle weakness. May affect

eyes (pinpoint pupils).

Aspiration hazard No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Chronic Toxicity Prolonged or repeated ingestion may affect the liver, and kidneys.

Sensitization: No information available.

Mutagenic Effects: No information available

Carcinogenic effects: Not considered carcinogenic.

Components	CAS-No.	IARC	ACGIH - Carcinogens	NTP	OSHA HCS - Carcinogens	Australia - Notifiable Carcinogenic Substances	Australia - Prohibited Carcinogenic Substances
Eucalyptol	470-82-6	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed

ACGIH (American Conference of Governmental Industrial Hygienists)

IARC (International Agency for Research on Cancer)

NTP (National Toxicology Program)

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

Reproductive toxicity No data is available

Product code: C1484 Product name: EUCALYPTOL 7/11

Reproductive Effects: No information available Developmental Effects: No information available Teratogenic Effects: No information available

Specific Target Organ Toxicity

STOT - single exposureSTOT - repeated exposure
No information available.
No information available.

Target Organs: Central nervous system. Kidneys.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity effects: Aquatic environment.

Eucalyptol - 470-82-6

Freshwater Fish Species Data: 95.4 - 109 mg/L LC50 Pimephales promelas 96 h flow-through 1

Persistence and degradability: No information available

Bioaccumulative potential: No information available.

Mobility: No information available.

13. DISPOSAL CONSIDERATIONS

Disposal Methods

Waste from residues / unused products:

Waste must be disposed of in accordance with Federal, State and Local regulation.

Contaminated packaging:

Empty containers should be taken for local recycling, recovery or waste disposal. Do not re-use empty containers Dispose of as unused product.

Components	CAS-No.	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
Eucalyptol	470-82-6	None	None	None	None

14. TRANSPORT INFORMATION

DOT

UN-No: UN1169

Proper Shipping Name: Extracts, aromatic, liquid

Hazard Class: 3

Subsidiary Class No information available

Packing group: III Emergency Response Guide 127

Number

Marine Pollutant
DOT RQ (lbs):
No data available
No information available

Special Provisions B1, IB3, T2, TP1

Symbol(s): No information available

Description: UN1169, Extracts, aromatic, liquid, 3, III

Product code: C1484 Product name: EUCALYPTOL 8 / 11

TDG (Canada)

UN-No: UN1169

Proper Shipping Name: Extracts, aromatic, liquid

Hazard Class: 3

Subsidiary Risk: No information available

Packing Group:

Marine Pollutant No Information available

Description: UN1169, Extracts, aromatic, liquid, 3, III

ADR

UN-No: UN1169

Proper Shipping Name: Extracts, aromatic, liquid

Hazard Class: 3
Packing Group: III

Subsidiary Risk: No information available

Special Provisions 601

Description: UN1169, Extracts, aromatic, liquid, 3, III

IMO / IMDG

UN-No: UN1169

Proper Shipping Name: Extracts, aromatic, liquid

Hazard Class: 3

Subsidiary Risk: No information available

Packing Group:

Marine Pollutant No information available

EMS: F-E Special Provisions 223, 955

Description UN1169, Extracts, aromatic, liquid, 3, III

RID

UN-No: UN1169

Proper Shipping Name: Extracts, aromatic, liquid

Hazard Class: 3

Subsidiary Risk: No information available

Packing Group: III
Special Provisions 601

Description: UN1169, Extracts, aromatic, liquid, 3, III

ICAO

UN-No: UN1169

Proper Shipping Name: Extracts, aromatic, liquid

Hazard Class: 3

Subsidiary Risk: No information available

Packing Group:

Description: UN1169, Extracts, aromatic, liquid, 3, III

Special Provisions A3

IATA

UN-No: UN1169

Proper Shipping Name: Extracts, aromatic, liquid

Hazard Class: 3

Subsidiary Risk: No information available

Packing Group: III ERG Code: 3L

Special Provisions No information available

Description: UN1169, Extracts, aromatic, liquid, 3, III

15. REGULATORY INFORMATION

International Inventories

Product code: C1484 Product name: EUCALYPTOL 9/11

Components	CAS-No.	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	CHINA	Australia (AICS)	EINECS-No.
Eucalyptol	470-82-6	PresentACTIV	Present	Present	Present	Present	Present	Present
		E	KE-34618		(5)-684			207-431-5

U.S. Regulations

Eucalyptol

21 CFR 172.515 **FDA - Direct Food Additives**

FDA - 21 CFR - Total Food Additives 172.515

California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.

Chemicals Known to the State of California to Cause Cancer:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Chemicals Known to the State of California to Cause Reproductive Toxicity:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Components	CAS-No.	Carcinogen	Developmental Toxicity	Male	Female
				Reproductive	Reproductive
				Toxicity	Toxicity:
Eucalyptol	470-82-6	Not Listed	Not Listed	Not Listed	Not Listed

CERCLA/SARA

Components	CAS-No.	CERCLA - Hazardous Substances and their Reportable Quantities	Section 302 Extremely Hazardous Substances and TPQs	Section 302 Extremely Hazardous Substances and RQs	Section 313 - Chemical Category	Section 313 - Reporting de minimis
Eucalyptol	470-82-6	None	None	None	None	None

U.S. TSCA

Components		TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	TSCA 8(d) -Health and Safety Reporting
Eucalyptol	470-82-6	Not Applicable	Not Applicable

Canada

WHIMIS 2015 - GHS Classifications

WHMIS 2015 Hazard Classification Information:

The WHMIS 2015 classification of this product has not been validated or reviewed yet.

Canada Hazardous Products Regulation This product has been classified according to the hazard criteria of the HPR (Hazardous

Products Regulation) and the SDS contains all of the information required by the HPR

WHMIS 1988 Hazard Class

B3 Combustible liquid

Canada Controlled Products Regulation:

This product has been classified according to the hazard criteria of the CPR (Controlled Products Regulation) and the MSDS contains all of the information required by the CPR.

Inventory

Product code: C1484 **Product name: EUCALYPTOL** 10 / 11

Components	CAS-No.	Canada (DSL)	Canada (NDSL)
Eucalyptol	470-82-6	Present	Not Listed

Components	CAS-No.	CEPA Schedule I - Toxic Substances
Eucalyptol	470-82-6	Not listed
Components	CAS-No.	CEPA - 2010 Greenhouse Gases Subject
		to Mandatory Reporting
Eucalyptol	470-82-6	Not listed

EU Classification

EU GHS - SV - CLP 1272/2008

Components	CAS-No.	EU GHS - SV - CLP (1272/2008)
Eucalyptol	470-82-6	No information

EU - CLP (1272/2008)

R-phrase(s)

R10 - Flammable.

S -phrase(s)

none

Components	CAS-No.	Classification	Concentration Limits:	Safety Phrases
Eucalyptol	470-82-6		No information	

The product is classified in accordance with Annex VI to Directive 67/548/EEC

Indication of danger:

Flammable

16. OTHER INFORMATION

Preparation Date: 2/20/2018
Revision Date: 2/20/2018
Prepared by: Sonia Owen

Disclaimer: All chemicals may pose unknown hazards and should be used with caution. This

is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. 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 SDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the

Safety Data Sheet (SDS) applies only to the material as packaged. If this product

completeness or accuracy of the information contained herein.

End of Safety Data Sheet

Product code: C1484 Product name: EUCALYPTOL 11 / 11