



# NEW DIRECTIONS

## A R O M A T I C S

### MATERIAL SAFETY DATA SHEET

#### SECTION: 1.1 PRODUCT IDENTIFICATION

**Product Name:** Eucalyptus Radiata Essential Oil  
**Botanical Name:** *Eucalyptus radiata*  
**Synonyms:** *Eucalyptus radiata subs.radiata (australiana)*, *Eucalyptus oil*,  
**INCI Name:** Eucalyptus radiata oil  
**CAS #:** 8000-48-4  
**Country of Origin:** Australia

#### SECTION: 1.2 COMPANY IDENTIFICATION

**Company:** New Directions Aromatics Inc.  
**Address:** 6781-Columbus Road, Mississauga. L5T 2G9 Canada  
**Telephone No:** 905-362-1915  
**FAX:** 905-362-1926

**24 HOUR EMERGENCY TELEPHONE NUMBER: (613)-996-6666 CANUTEC**

#### SECTION: 2. COMPOSITION / INFORMATION INGREDIENTS

Component	Range	CAS#
1,8-cineole	60 – 90 %	470-82-6
Terpene Hydrocarbons	10 – 30 %	---
Other Components	10 %	---

#### SECTION: 3. HAZARDS IDENTIFICATION

**Human Health Hazard:** May be irritating to eyes and skin. May cause sensitization by skin contact.  
R10, R36/38, R43, R65

**Environmental Hazard:** Information not available.

**Threshold limits:** Not determined.

**Effects of over exposure:** May irritate skin, eyes, and mucus membrane. Excessive ingestion may cause nausea, vomiting, dizziness, muscular weakness, delirium and convulsions

#### SECTION: 4. FIRST AID MEASURES

**Eye Contact:** Contact with eyes can produce burning sensation. Irrigate with water immediately, continue flushing eyes with water for 15 minutes. Seek medical attention if irritation persists.

**Inhalation:** Remove to fresh air. Give oxygen if breathing is labored and seek medical advice. Avoid casual breathing. Signs of over exposure are dizziness and nausea.

**Ingestion:** Rinse mouth; dilute with milk or water and consult a physician immediately. Do not induce vomiting. Never-give anything by mouth if victim is unconscious, is rapidly losing or is Convulsing.

**Skin Contact:** Skin contact can produce irritation, or itching of the skin. Remove contaminated clothing Wash with soap and plenty of water. Seek medical attention if irritation persists.

#### SECTION: 5. FIRE FIGHTING MEASURES

**Flash Point:** 48 °C Combustible liquid. Will ignite if moderately heated.  
**Extinguishing media:** Carbon Dioxide, dry chemical or foam. Closed containers may build up pressure at elevated temperature



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<b>Special Procedures:</b>	Determine the need to evacuate or isolate the area according to your local emergency plan.
<b>Unusual Firefighting Hazards:</b>	None identified.
<b>Protective Equipment:</b>	Self-contained breathing apparatus and protective clothing should be worn when fighting fires involving essential oils or chemicals.
<b>Combustion Product:</b>	Carbon Monoxide, Carbon Dioxide

#### SECTION: 6. ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions:</b>	Use of self-contained breathing apparatus is recommended for any major chemical spill. Refer also to section 8.
<b>Safety Precautions:</b>	Eliminate all ignition sources. Ventilate area. Determine the need to Evacuate or isolate the area according to your local emergency plan.
<b>Environmental Precautions:</b>	Keep away from drains, surface and ground water. Report spills to appropriate Authorities if required.
<b>Methods For Cleaning Up:</b>	Contain and collect with inert absorbent material and place in suitable container for disposal. Comply with all federal, state, and local regulation. Wipe small spills with cloth. Clean with hot water and detergent.

#### SECTION: 7. HANDLING AND STORAGE

<b>Handling:</b>	Avoid inhalation and contact with skin and eyes. Good personal hygiene practices should be used. Wash after any contact, before breaks and meals, and at the end of the work period. Contaminated clothing and shoes should be cleaned before re-use.
<b>Storage:</b>	Containers should be kept closed in order to minimize contamination. Store in a cool, dry, well ventilated place protected from light. Keep away from extreme heat and from freezing conditions and away from all sources of ignition Make sure the material does not come into contact with substances listed as: "Materials to Avoid".

#### SECTION: 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

<b>Eyes Protection:</b>	The use of safety glasses is recommended. If a material is to be handled in a manner where splashing may occur, the use of splash goggles or face shield is recommended
<b>Respiratory Protection:</b>	In well- ventilated areas, respiratory protection is not normally required. In confined, poorly ventilated areas the use of "NIOSH" approved respiratory protection normally required (use only if trained in proper use and with acceptable oxygen level).
<b>Protective Gloves:</b>	Using chemical resistant gloves is recommended.
<b>Protective Clothing:</b>	Using chemical resistant clothing is recommended.
<b>Protective Equipment:</b>	An eyewash fountain and / or safety shower should be available in the work area. Acceptable industrial hygiene practices should be maintained.
<b>Note:</b>	These precautions are for room temperature handling. Use at elevated temperature or aerosol / spray applications may require additional precautions



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#### SECTION: 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Colorless to pale yellow liquid.
<b>Odor:</b>	Characteristic eucalyptol odor.
<b>Solubility:</b>	Soluble in alcohol and oils. Insoluble in water.
<b>Specific Gravity:</b>	0.880 – 0.930 @ 20°C
<b>Optical Rotation:</b>	-20 – +10 @ 20°C
<b>Refractive Index:</b>	1.455 – 1.481 @ 20°C
<b>Boiling Point:</b>	174-176°C
<b>Melting Point:</b>	1.5 °C
<b>Percent Volatile:</b>	100%
<b>Eucalyptol Content:</b>	60-90 %
<b>Extraction Method:</b>	Steam distillation of the woods and leaves.
<b>Contents:</b>	Eucalyptol (1,8-cineole), terpene hydrocarbons

#### SECTION: 10. STABILITY AND REACTIVITY

<b>Stability:</b>	Chemically stable. This material presents no significant reactivity hazard.
<b>Conditions to Avoid:</b>	Avoid sparks, flame, excessive heat and other sources of ignition.
<b>Materials to Avoid:</b>	Strong oxidizing agents. Protect from air
<b>Flammability:</b>	Combustible liquid.
<b>Hazardous Polymerization:</b>	Will not occur.
<b>Hazardous Combustion or Decomposition Products:</b>	None known. When heated to decomposition produces acid fumes and carbon monoxide smoke.

#### SECTION: 11. TOXICOLOGICAL INFORMATION

<b>Inhalation:</b>	Inhalation of high concentrations of vapor may result in irritation of eyes, nose and throat, headache, nausea, and dizziness.
<b>Skin Contact:</b>	Repeated or prolonged contact can cause redness, irritation and scaling of skin (Dermatitis). Adverse skin effects should be prevented by normal care and personal hygiene
<b>Eye Contact:</b>	May irritate eyes.
<b>Ingestion:</b>	Low order toxicity causing irritation of the stomach and intestines which results in nausea and vomiting.
<b>Medical Conditions Aggravated by Exposure:</b>	May aggravate dermatitis, psoriasis and other skin conditions.
<b>Chronic Toxicity:</b>	May cause allergic reactions on skin
<b>Carcinogenicity Data:</b>	None of the components of this material are listed as a carcinogen.
<b>Reproductive Toxicity:</b>	No adverse effects on reproduction are known.
<b>Acute Toxicity Values:</b>	No data is currently available for humans. Oral LD50(rat): 2.48 g/kg

#### SECTION: 12. ECOLOGICAL INFORMATION

Very toxic to aquatic organism may cause long-term adverse effects in the aquatic environment.  
Avoid any pollution of ground, surface or underground water.

#### SECTION: 13. DISPOSAL CONSIDERATION

Incineration or sanitary landfill in accordance with local, provincial and federal regulations. Check with disposal expert to insure compliance



# NEW DIRECTIONS AROMATICS

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### SECTION: 14. TRANSPORT INFORMATION

**UN No. 1993: Liquid aromatic extract. Packaging Group: III Class: 3**

**US DOT Shipping Description:** Check appropriate authority

**IATA Shipping (Air):** Check appropriate authority

**IMDG Shipping Description:** Check appropriate authority

### SECTION: 15. REGULATORY INFORMATION

**WHMIS (Canada):** Group III, Class 3

**HMIS (USA):** Health Hazard –N/A Fire Hazard –N/A Reactivity – N/A

**SARA 302/ SARA 313:** None

**EU Labeling:** R10 Flammable.

Xn R22 Harmful if swallowed.

Xi R38 Irritating to skin

S36/37/38 Wear suitable protective clothing, gloves and eye/face protection.

### SECTION: 16. OTHER INFORMATION

**Revision Date: June 13, 2011**

### SECTION: 17. DISCLAIMER

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**CERTIFICATE OF ANALYSIS**

**Product:** Eucalyptus Radiata Essential Oil  
**Lot No.:** 11240-A08, B08  
**Manufacturing Date:** July 2010  
**Best Before:** July 2015 (under recommended storage conditions)

<u>Property</u>	<u>Specification</u>	<u>Result</u>
<b>Appearance:</b>	Colorless to pale yellow liquid.	Complies
<b>Odor:</b>	Characteristic eucalyptol odor.	Complies
<b>Solubility:</b>	Soluble in alcohol and oils. Insoluble in water.	Complies
<b>Specific Gravity:</b>	0.880 – 0.928 @ 20°C	0.914
<b>Optical Rotation:</b>	-20 – +10 @ 20°C	+ 2.0
<b>Refractive Index:</b>	1.455 – 1.480 @ 20°C	1.4638
<b>1, 8 – cineole</b>	80-90%	73.3 %

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**CERTIFICATE OF ANALYSIS**

**Product:** Eucalyptus Radiata Essential Oil  
**Lot No.:** 11240-A09  
**Manufacturing Date:** May 2011  
**Best Before:** May 2013\*

<u>Property</u>	<u>Specification</u>	<u>Result</u>
<b>Appearance:</b>	Colorless to pale yellow liquid.	Complies
<b>Odor:</b>	Characteristic eucalyptol odor.	Complies
<b>Solubility:</b>	Soluble in alcohol and oils. Insoluble in water.	Complies
<b>Specific Gravity:</b>	0.880 – 0.928 @ 20°C	Complies
<b>Optical Rotation:</b>	-20 – +10 @ 20°C	Complies
<b>Refractive Index:</b>	1.455 – 1.480 @ 20°C	Complies

\*(under recommended storage conditions See MSDS)

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