

## 1. PRODUCT AND COMPANY IDENTIFICATION

Product name	:	Eucalyptus Essential Oil (Blue Mallee)
Botanical name	:	Eucalyptus polybractea
INCI name	:	Eucalyptus Polybractea Oil
CAS #	:	91771-67-4
Country of Origin	:	Australia
EINECS #	:	294-961-5
Product use	:	Domestic and Industrial
Supplier	:	New Directions Aromatics Inc.
Address	:	6781 Columbus Road, Mississauga, Ontario, CANADA L5T 2G9
Fax	:	905-362-1926
Telephone number	:	905-362-1915
Emergency phone number	:	(613)-996-6666 CANUTEC 24 HOUR EMERGENCY

## 2. HAZARDS IDENTIFICATION

### Emergency Overview

### GHS Classification

Flammable liquids - Category 3

Acute Toxicity - Category 4

Eye irritation - Category 2A

### GHS Label elements, including precautionary statements

Signal: Warning

### Hazard statement(s)

H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H319	Causes serious eye irritation.

### Precautionary statement(s)

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	Use explosion-proof electrical/ventilating/lighting/equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P264	Wash thoroughly after handling.

P270	Do not eat, drink or smoke when using this product.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P312	IF SWALLOWED: Call a POISON CENTER/doctor/if you feel unwell.
P330	Rinse mouth.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.
P330	Rinse mouth.
P337+P313	If eye irritation persists get medical advice/attention.
P370+P378	In case of fire: Use appropriate fire extinguisher to extinguish.
P403+P235	Store in a well ventilated place. Keep cool.
P501	Dispose of contents/container according to local regulations.

### 3. COMPOSITION / INFORMATION INGREDIENTS

Product Name	CAS NO	EC NO	Concentration
Eucalyptus Polybractea Oil	91771-67-4	294-961-5	100 %

### 4. FIRST AID MEASURES

#### Eye contact

Causes serious eye irritation. If in eyes, immediately flush eyes with plenty of cool water for at least 15 minutes. Remove contact lenses if worn and accessible. Get medical attention if irritation occurs.

#### Skin contact

Wash contacted area thoroughly with soap and water. Remove exposed or contaminated clothing, taking care not to contaminate eyes. Seek medical attention if irritation develops.

#### Inhalation

If fumes or vapours are inhaled, or breathing difficulty is experienced, remove victim to fresh air. If necessary, use artificial respiration to support vital functions. Seek immediate medical attention if breathing difficulty persists.

#### Ingestion

If the chemical is swallowed, call a physician or poison control centre for the most current information. If no professional advice is available, DO NOT induce vomiting, rinse the mouth. Never induce vomiting or give diluents (milk or water) to someone who is unconscious, having convulsions or who cannot swallow. Victims of chemical exposure must be taken for medical attention. Take a copy of the label and SDS with the victim to a health professional.

### 5. FIRE FIGHTING MEASURES

#### Suitable extinguishing media

Carbon dioxide, foam, dry chemical, halon or water fog/mist.

#### Unsuitable extinguishing media

Do not use full water jet.

#### Special protective equipment and precautions for fire-fighters

Incipient fire responders should wear eye protection. Structural fire fighters must wear self-contained breathing apparatus and full protective equipment. Isolate materials not yet involved in the fire and protect personnel. Move containers from fire area if this can be done without risk; otherwise keep containers cool with carefully applied water spray/mist. If possible, prevent runoff water from entering storm drains, bodies of water or other environmentally sensitive areas.

#### Special hazards arising from the substance or its combustible products

This product is flammable & vapours may travel some distance and flash back if ignited. May produce toxic fumes of carbon monoxide and/or carbon dioxide and hydrocarbons if burning.

### **Resulting gases**

Carbon oxides, fumes of carbon oxides and hydrocarbons.

## **6. ACCIDENTAL RELEASE MEASURES**

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### **Personal precautions, protective equipment and emergency procedures.**

Proper protective equipment should be used (see Section 8). Personnel should be trained for spill response operations. Trained personnel following pre-planned procedures should handle non-incident releases.

### **Environmental precautions**

Prevent run-off into drains and waterways. Decontaminate area thoroughly. Do not mix with wastes from other materials. Dispose of in accordance with applicable Federal, State and Local procedures (see Section 13).

### **Methods and materials for containment and cleaning up**

Contained spilled material using poly-pads or other suitable absorbent material. Avoid generating mists or sprays. Place all spill residues in an appropriate container and seal. Ventilate area and wash spill area after material pick up is complete.

## **7. HANDLING AND STORAGE**

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### **Precautions for safe handling**

Read all labels before use. As with all chemicals; avoid getting this product on you or in you. Wear protective equipment (see Section 8) and wash thoroughly after handling this product. Do not eat, drink or smoke or apply cosmetics while handling this product. Avoid breathing mists or sprays generated by this product. Use in a well-ventilated location. Remove contaminated clothing immediately.

### **Conditions for safe storage, including any incompatibilities**

Observe all Federal and State regulations pertaining to the storage and handling of flammable liquids. Store in a cool, dry, well-ventilated area away from direct sunlight. Keep containers tightly closed when not in use. Store away from sources of heat or ignition (sparks, open flame, hot surfaces). Store away from incompatible materials (oxidizing agents and acids). Inspect regularly for damage and leaks. Take precautionary measures against static discharge: Ground container and receiving equipment, use only non-sparking tools and use explosion proof electrical and other equipment.

## **8. EXPOSURE CONTROLS AND PERSONAL PROTECTION**

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### **Exposure controls**

Use with adequate ventilation to ensure exposure levels are maintained below the limits provided below.

#### **Eyes**

Splash goggles or safety glasses with side shields are recommended. If necessary, refer to US OSHA Standard 29 CFR 1910.133, the European Standard EN 166, the appropriate Australian Standards, Canadian Standards, or the relevant Japanese Standards.

#### **Skin**

HAND: Compatible protective gloves are recommended. Wash hands after removing gloves.

BODY: Use body protection appropriate to the task. Coveralls, rubber aprons or chemical protective clothing made from natural rubber are generally acceptable depending on the task. If a hazard of injury to the feet exists due to falling objects, rolling objects or where objects may pierce the soles of the feet or where an employee's feet may be exposed to electrical hazards, use foot protection in accordance with US OSHA 29 CFR 1910.136.

If necessary, refer to the appropriate Australian Standards, Canadian Standards, or the relevant Japanese Standards.

#### **Respiratory**

If exposure limits are exceeded, use only protection authorized in the US Federal OSHA Respiratory Standard

29 CFR 1910.134, equivalent US State Standards, Canadian CSA Standard Z94.4-93, the European Standard EN 149 or equivalent EU member State Standards.

### **Ingestion**

Not for ingestion.

### **Control parameters**

Not available.

### **Exposure limit values**

Not established.

### **Biological limit values**

Not available.

## **9. PHYSICAL AND CHEMICAL PROPERTIES**

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Appearance	:	Colorless to pale yellow clear liquid.
Odor	:	Characteristic eucalyptol odor.
Melting Point/Freezing Point	:	MP: 1.5 °C / FP: 0 °C
Initial b.p and boiling range	:	155 to 176 °C
Flash point	:	43- 56°C
Flammability (solid,gas)	:	55 °C (Cleveland closed cup)
Vapor pressure	:	1.62 mm @ 25 °C
Relative density	:	0.885 to 0.928 @ 20 °C
Solubility (ies)	:	Miscible in 70% ethanol (v/v) @ 20 °C
Partition coefficient	:	0.0681
Auto-ignition temperature	:	269 °C
Refractive index	:	1.455 to 1.480 @ 20 °C
Optical rotation	:	-20° to +10° @ 20 °C

## **10. STABILITY AND REACTIVITY**

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### **Reactivity**

None known.

### **Chemical stability**

Chemically stable.

### **Possibility of hazardous reactions**

Hazardous polymerization will not occur.

### **Conditions to avoid**

Excessive heat, sparks, flames and other sources of ignition.

### **Incompatible materials**

Strong oxidizing or reducing agents. Protect from air.

### **Hazardous decomposition products**

Carbon oxides and hydrocarbons.

## **11. TOXICOLOGICAL INFORMATION**

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### **Acute toxicity**

Oral LD<sub>50</sub> rat: 2480 mg/Kg,

Dermal LD<sub>50</sub> rabbit: >5000mg/Kg.

### **Carcinogenicity**

The components of this product are not listed as a carcinogen.

**IARC**

Not listed as a carcinogen.

**NTP**

Not listed as a carcinogen.

**OSHA**

Not listed as a carcinogen.

**Inhalation**

Potential irritant. Over-exposure at high levels may result in mucous membrane irritation of the nose and throat with coughing.

**Skin contact**

Potential irritant. May cause erythema, irritation or edema if oil is oxidized. Repeated or prolonged skin contact may lead to allergic contact dermatitis.

**Eye contact**

Severe irritant. May cause redness, irritation or edema.

**Ingestion**

May be harmful if swallowed. May result in allergic dermatitis, hallucination, ataxia, diarrhea, central nervous system depression, sleep or coma.

**Repeated exposure**

With repeated exposure this product may cause damage to the following organs: Blood, skin, central nervous system.

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**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

Not acutely toxic to fish LC<sub>50</sub> > 100 mg/L (OECD 203).

**Persistence and degradability**

Readily biodegradable.

**Bio - accumulative potential**

No data available.

**Mobility in soil**

No data available.

**Other adverse effects**

None known.

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**13. DISPOSAL CONSIDERATION**

Dispose of product in accordance with local, state or provincial and federal regulations. Check with local municipal authority to ensure compliance.

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**14. TRANSPORT INFORMATION**

**UN Number**

1993

**UN proper shipping name**

Flammable liquid, n.o.s. (Eucalyptus oil)

**Transport hazard class**

3

**Packing group**

III

**US DOT Shipping Description (Land)**

1993

**Proper shipping name**

Flammable liquid, n.o.s. (Eucalyptus oil)

**Class**

3

**Packaging group**

III

**IMO-IMDG Shipping Description (Sea)**

1993

**Proper shipping name**

Flammable liquid, n.o.s. (Eucalyptus oil)

**Class**

3

**Packaging group**

III

**IATA Shipping Description (Air)**

1993

**Proper shipping name**

Flammable liquid, n.o.s. (Eucalyptus oil)

**Class**

3

**Packaging group**

III

**15. REGULATORY INFORMATION**

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**DSL / NDSL**

Listed or exempt.

**TSCA**

Listed or exempt.

**California Proposition 65**

- This product can expose you to beta-Myrcene, which is known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

**GHS Hazard Statements**

Please refer to section 2.

**GHS Precautionary Statements**

Please refer to section 2.

**16. OTHER INFORMATION**

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## Disclaimer & Caution

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