



**MATERIAL SAFETY DATA SHEET**

**SECTION: 1.1 PRODUCT IDENTIFICATION**

**Product Name:** Meadowfoam Carrier Oil  
**Botanical Name:** *Limnanthes alba*  
**Synonyms:** *Lilium douglasii alba, Limnanthus alba, meadow foam oil*  
**INCI Name:** Limnanthes alba (Meadow foam) Seed Oil  
**CAS #:** 153065-40-8  
**Country of Origin:** Australia

**SECTION: 1.2 COMPANY IDENTIFICATION**

**Company:** New Directions Aromatics Inc.  
**Address:** 6781-Columbus Road, Mississauga, ON., 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**

**Constituents:** Arachidic, eicosamic, erucic, docosadienoic fatty acids and traces of C:20 fatty acids and others.

Eicosamic Acid Content:	60 – 65 %	Erucic Acid Content:	13 – 18 %
Docosadienoic Acid:	15 – 20 %	Arachidic Acid	0.75 – 1.00 %

**SECTION: 3. HAZARDS IDENTIFICATION**

This product is not a hazardous material under Department of Labor definition and contains no hazardous ingredients

**SECTION: 4. FIRST AID MEASURES**

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

**Inhalation:** Remove to fresh air.

**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:** >260 °C (open cup)

**Extinguishing media:** Carbon Dioxide, dry chemical or foam. Closed containers may build up pressure at elevated temperature

**Special Procedures:** Determine the need to evacuate or isolate the area according to your local emergency plan.

**Unusual Firefighting Hazards:** None identified.

**Protective Equipment:** Self-contained breathing apparatus and protective clothing should be worn when fighting fires involving oils or chemicals.

**Combustion Product:** Carbon Monoxide, Carbon Dioxide



# NEW DIRECTIONS

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#### SECTION: 6. ACCIDENTAL RELEASE MEASURES

<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. 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.

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

<b>Eyes Protection:</b>	The use of safety glasses is recommended.
<b>Respiratory Protection:</b>	In well- ventilated areas, respiratory protection is not normally required.
<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.

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

<b>Appearance:</b>	Light golden to yellow color liquid.
<b>Odor:</b>	Characteristic neutral odor.
<b>Solubility:</b>	Soluble in alcohol and oils. Insoluble in water.
<b>Specific gravity:</b>	0.830 – 0.880 @ 25°C
<b>Peroxide Value:</b>	<0.20 %
<b>Acid Value:</b>	<0.06 %
<b>Iodine Value:</b>	85 – 95
<b>Un-saponifiables:</b>	<0.50 %
<b>Specification Value:</b>	165 – 175
<b>Extraction Method:</b>	Solvent extraction of the seeds and refined by heating and filtering.

#### 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 and excessive heat.
<b>Materials to Avoid:</b>	Strong oxidizing agents.
<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 carbon dioxide and monoxide smoke.

#### SECTION: 11. TOXICOLOGICAL INFORMATION

<b>Skin Contact:</b>	Repeated or prolonged contact can cause irritation of skin
<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</b>	



# NEW DIRECTIONS AROMATICS

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<b>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.

### 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

### SECTION: 14. TRANSPORT INFORMATION

<b>US DOT Shipping Description:</b>	Check appropriate authority
<b>IATA Shipping (Air):</b>	Check appropriate authority
<b>IMDG Shipping Description:</b>	Check appropriate authority

### SECTION: 15. REGULATORY INFORMATION

<b>WHMIS (Canada):</b>	Not Available
<b>HMIS (USA):</b>	Health Hazard – 0 Fire Hazard – 1 Reactivity – 0
<b>SARA 302/ SARA 313:</b>	None
<b>California Proposition 65:</b>	This product does not contain chemical listed per the Safe Drinking Water and Enforcement Act of 1986.
<b>EU Labeling:</b>	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:** January 9, 2012

### SECTION: 17. DISCLAIMER

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### CERTIFICATE OF ANALYSIS

Product: Meadowfoam Carrier Oil  
Lot No: 15038-B19  
Best Before: November 2012

Properties	Specifications:	Results:
Odor:	Characteristic neutral odor.	Complies
Solubility:	Soluble in alcohol and oils. Insoluble in water.	Complies
Specific gravity:	0.830 – 0.880 @ 25°C	Complies
Peroxide Value: meq/Kg	<0.50 %	0.5
Iodine Value: Cd1-25	85 – 95	92.6
Free Fatty Acid Ca5a-40	<1%	0.04

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# NEW DIRECTIONS

## A R O M A T I C S

### CERTIFICATE OF ANALYSIS

Product: Meadowfoam Carrier Oil  
Lot No: 15038-A20-1, B20-1  
Best Before: November 2012

Properties	Specifications:	Results:
Odor:	Characteristic neutral odor.	Complies
Solubility:	Soluble in alcohol and oils. Insoluble in water.	Complies
Specific gravity:	0.830 – 0.880 @ 25°C	Complies
Peroxide Value: meq/Kg	<0.50 %	0.5
Iodine Value: Cd1-25	85 – 95	93.5
Free Fatty Acid Ca5a-40	<1%	0.05

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