



NEW DIRECTIONS

A R O M A T I C S

MATERIAL SAFETY DATA SHEET

SECTION: 1.1 PRODUCT IDENTIFICATION

Product Name: Safflower Carrier Oil
Botanical Name: *Carthamus tinctorius*
Synonyms: *Carthamus glaber*, *Carthamus inermis*
INCI Name: Carthamus tinctorius (safflower) seed oil
CAS #: 8001-23-8
Country of Origin: USA

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

Constituents: Lauric, myristic, palmitic, palmitoleic, margaric, margaroleic, oleic, stearic, stearic, linoleic, linolenic, arachidic, eicosanic, behenic and erucic acids

Total Saturated:	7 – 18	Stearic Acid:	2 – 7
Total Monounsaturated:	70 – 81	Oleic acid:	70 – 80
Total Polyunsaturated:	12 – 17	Linoleic Acid:	12 – 16
Palmitic acid:	4 – 9		

SECTION: 3. HAZARDS IDENTIFICATION

When used under normal conditions this oil should not present any hazard.

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.

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: Remove contaminated clothing Wash with soap and plenty of water. Seek medical attention if irritation persists.

SECTION: 5. FIRE FIGHTING MEASURES

Flash Point: >300 °C

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



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SECTION: 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Use safety glasses if splashing may occur.
Safety Precautions:	Eliminate all ignition sources. Ventilate area. Determine the need to Evacuate or isolate the area according to your local emergency plan.
Environmental Precautions:	Keep away from drains, surface and ground water. Report spills to appropriate Authorities if required.
Methods For Cleaning Up:	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

Handling:	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.
Storage:	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 conditions and away from all sources of ignition. Make sure the material is not exposed to substances listed as: "Materials to Avoid".

SECTION: 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Eyes Protection:	The use of safety glasses is recommended if a material is to be handled in a manner where splashing may occur.
Respiratory Protection:	In well- ventilated areas, respiratory protection is not normally required.
Protective Gloves:	None needed.
Protective Clothing:	None needed.
Protective Equipment:	An eyewash fountain and / or safety shower should be available in the work area. Acceptable industrial hygiene practices should be maintained.
Note:	These precautions are for room temperature handling. Use at elevated temperature may require additional precautions

SECTION: 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Pale yellow to yellow liquid
Odor:	Characteristic odor
Solubility:	Soluble in alcohol and oils. Insoluble in water.
Relative Density:	0.905 – 0.925 @°C
Refractive Index:	1.465 – 1.475 @°C
Acid value:	<0.5 %



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% Unsaponifiables:	<1.5 %
Saponification Value:	185 – 200
Iodine Value:	85 – 140
Peroxide Value:	<1 meq/kg
Extraction Method:	Cold-pressed of the seeds/kernels.

SECTION: 10. STABILITY AND REACTIVITY

Stability:	Chemically stable. This material presents no significant reactivity hazard.
Conditions to Avoid:	Avoid sparks, flame and excessive heat.
Materials to Avoid:	Strong oxidizing agents.
Flammability:	Combustible liquid.
Hazardous Polymerization:	Will not occur.
Hazardous Combustion or Decomposition Products:	None known. When heated to decomposition produces carbon dioxide and monoxide smoke.

SECTION: 11. TOXICOLOGICAL INFORMATION

Inhalation:	Not applicable.
Skin Contact:	Not applicable.
Eye Contact:	May irritate eyes.
Ingestion:	Low order toxicity causing irritation of the stomach and intestines which results in nausea and vomiting.
Medical Conditions Aggravated by Exposure:	No data available.
Chronic Toxicity:	No data available.
Carcinogenicity Data:	None of the components of this material are listed as a carcinogen.
Reproductive Toxicity:	No adverse effects on reproduction are known.
Acute Toxicity Values:	No data is currently available.

SECTION: 12. ECOLOGICAL INFORMATION

No data available. 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

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):	Not Available
HMIS (USA):	Health Hazard – 0 Fire Hazard – 1 Reactivity – 0
SARA 302/ SARA 313:	None



NEW DIRECTIONS AROMATICS

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California Proposition 65: This product does not contain chemical listed per the Safe Drinking Water and Enforcement Act of 1986.
EU Labeling: Not available.

SECTION: 16. OTHER INFORMATION

Revision Date: June 13, 2011

SECTION: 17. DISCLAIMER

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CERTIFICATE OF ANALYSIS

Product: Safflower Carrier Oil
Lot No: 15025-A16
Manufacture Date: October, 2010
Expiry Date: February 2012

Properties	Specifications:	Results:
Appearance:	Pale yellow to yellow liquid	Complies
Odor:	Characteristic odor	Complies
Solubility:	Soluble in alcohol and oils. Insoluble in water.	Complies
Relative Density:	0.905 – 0.925 @°C	Complies
Refractive Index:	1.465 – 1.475 @°C	Complies
Free Fatty Acid:	0.038	Complies
Iodine Value:	85 – 140	Complies
Peroxide Value:	>0.2 meq/kg	Complies

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NEW DIRECTIONS

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CERTIFICATE OF ANALYSIS

Product: Safflower Carrier Oil

Lot No: 15025-A18

Manufacture Date: May 2011

Expiry Date: May 2012

Properties	Specifications:	Results:
Appearance:	Pale yellow to yellow liquid	Complies
Odor:	Characteristic odor	Complies
Solubility:	Soluble in alcohol and oils. Insoluble in water.	Complies
Relative Density:	0.905 – 0.925 @°C	Complies
Refractive Index:	1.465 – 1.475 @°C	Complies
Free Fatty Acid:	<0.05 %	0.038
Iodine Value:	85 – 140	92.1
Peroxide Value:	<1 meq/kg	0.2

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New Directions Aromatics Inc.

6781-Columbus Road, Mississauga. L5T 2G9 Canada

Tel: (905) 362-1915

Fax: (905) 362-1926

www.newdirectionsaromatics.com



NEW DIRECTIONS

A R O M A T I C S

CERTIFICATE OF ANALYSIS

Product: Safflower Carrier Oil

Lot No: 15025-A19, -B19

Manufacture Date: June 2011

Expiry Date: June 2012

Properties	Specifications:	Results:
Appearance:	Pale yellow to yellow liquid	Complies
Odor:	Characteristic odor	Complies
Solubility:	Soluble in alcohol and oils. Insoluble in water.	Complies
Relative Density:	0.905 – 0.925 @°C	Complies
Refractive Index:	1.465 – 1.475 @°C	Complies
Free Fatty Acid:	<0.05 %	0.04
Iodine Value:	85 – 140	92.9
Peroxide Value:	<1 meq/kg	0.25

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