



NEW DIRECTIONS AROMATICS

MATERIAL SAFETY DATA SHEET

SECTION: 1.1 PRODUCT IDENTIFICATION

Product Name: Rice Bran Carrier Oil (refined)
Botanical Name: *Oryza sativa*
Synonyms: *Oryza sativa* var. *fatua*, *Oryza glutinosa*, *Oryza nivara*, *Oryza sativa* var. *indica*, *Oryza sativa* var. *vulgaris*
INCI Name: Oryza sativa (rice) bran oil
CAS #: 68553-81-1
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, tocotrienols, complex lipide, lecithin, squalene, phytosterol and gamma-oryzanol

Palmitic Acid: 12 – 18
Oleic Acid: 40 – 50
Linoleic Acid: 29 – 42

SECTION: 3. HAZARDS IDENTIFICATION

Non-Hazardous

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 may 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: >300°C

Extinguishing media: Class B Fire Extinguisher, Carbon Dioxide, dry chemical or foam.

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:	For Eyes/Skin: Flush with water for at least 15 minutes
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.

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, the use of splash goggles or face shield is recommended
Respiratory Protection:	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).
Protective Gloves:	If Allergic, Use gloves
Protective Equipment:	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

Appearance:	Clear Brown Yellow liquid.
Odor:	Characteristic odor
Solubility:	Insoluble in water.
Relative Density:	0.910 – 0.930 @°C
Refractive Index:	1.460 – 1.475 @°C
Acid value:	<2 %
% Unsaponifiables:	<10 %
Saponification Value:	175 – 210
Iodine Value:	99 – 115
Peroxide Value:	<1.0 meq/kg
Extraction Method:	Cold-pressed of the bran (outer coating) of the rice.



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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:	Under mist conditions: no short-term inhalation limits.
Skin Contact:	May cause allergic reactions on skin
Eye Contact:	May irritate eyes.
Ingestion:	None
Chronic Toxicity:	None
Carcinogenicity Data:	None
Reproductive Toxicity:	No adverse effects on reproduction are known.
Acute Toxicity Values:	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

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):	N/A
HMIS (USA):	Health Hazard –0 Fire Hazard – 1 Reactivity – 0
SARA 302/ SARA 313:	None
California Proposition 65:	This product does not contain chemical listed per the Safe Drinking Water and Enforcement Act of 1986.
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.



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SECTION: 16. OTHER INFORMATION

Revision Date: November 7, 2011

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SECTION: 17. DISCLAIMER

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NEW DIRECTIONS AROMATICS

CERTIFICATE OF ANALYSIS

Product: Rice Bran Refined Carrier Oil

Lot # 15020-A29

Best Before: April 2012

Properties

Specifications:

Results:

Appearance:	Golden to brown Yellow liquid	Complies
Odor:	Characteristic odor	Complies
Solubility:	Insoluble in water.	Complies
Free Fatty Acid: Ca5A-40	<2 %	0.05
Iodine Value: Cd1-25	85 – 115	104.7
Peroxide Value: Cc11-53	<2 meq/kg	0.75 clear & Brilliant
Cold Test @ 32 Deg F:	5.5 Clear and Brilliant	Complies

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NEW DIRECTIONS

A R O M A T I C S

CERTIFICATE OF ANALYSIS

Product: Rice Bran Refined Carrier Oil
Lot # 15020-A30
Best Before: June 2012

<u>Properties</u>	<u>Specifications:</u>	<u>Results:</u>
Appearance:	Golden to brown Yellow liquid	Complies
Odor:	Characteristic odor	Complies
Solubility:	Insoluble in water.	Complies
Free Fatty Acid: Ca5A-40	<2 %	0.05
Iodine Value: Cd1-25	85 – 115	104.7
Peroxide Value: Cc11-53	<2 meq/kg	0.75 clear & Brilliant
Cold Test @ 32 Deg F:	5.5 Clear and Brilliant	Complies

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NEW DIRECTIONS

A R O M A T I C S

CERTIFICATE OF ANALYSIS

Product: Rice Bran Refined Carrier Oil

Lot # 15020-A31

Best Before: June 2012

<u>Properties</u>	<u>Specifications:</u>	<u>Results:</u>
Appearance:	Golden to brown Yellow liquid	Complies
Odor:	Characteristic odor	Complies
Solubility:	Insoluble in water.	Complies
Free Fatty Acid: Ca5A-40	<2 %	0.05
Iodine Value: Cd1-25	85 – 115	104.7
Peroxide Value: Cc11-53	<2 meq/kg	0.75 clear & Brilliant
Cold Test @ 32 Deg F:	5.5 Clear and Brilliant	Complies

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NEW DIRECTIONS

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CERTIFICATE OF ANALYSIS

Product: Rice Bran Refined Carrier Oil

Lot # 15020-A28-1

Best Before: November 2012

<u>Properties</u>	<u>Specifications:</u>	<u>Results:</u>
Appearance:	Golden to brown Yellow liquid	Complies
Odor:	Characteristic odor	Complies
Solubility:	Insoluble in water.	Complies
Free Fatty Acid: Ca5A-40	<2 %	0.05
Iodine Value: Cd1-25	85 – 115	102.6
Peroxide Value: Cc11-53	<2 meq/kg	0.25
Cold Test @ 32 Deg F:	5.5 Clear and Brilliant	Complies

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