



NEW DIRECTIONS AROMATICS

MATERIAL SAFETY DATA SHEET

SECTION: 1.1 PRODUCT IDENTIFICATION

Product Name: Castor Flakes Vegetable Wax
Botanical Name: *Ricinus communis*
Synonyms: *Ricinus communis L.*
INCI Name: Hydrogenated castor oil
CAS #: 8001-78-3
Country of Origin: Canada

SECTION: 1.2 COMPANY IDENTIFICATION

Company: New Direction 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

Contents: Hydrogenated Castor Oil flakes over Nickel Catalyst

SECTION: 3. HAZARDS IDENTIFICATION

This material presents no significant health hazard.

Medical Information: N/A

SECTION: 4. FIRST AID MEASURES

Eye Contact: Contact with eyes can produce burning sensation if hot. 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

Flammable Limits: Flash Point 316 °C. Never melt wax by direct heat

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 essential oils or chemicals.

Combustion Product: Carbon Monoxide, Carbon Dioxide



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SECTION: 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:	N/A
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.
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 and from freezing conditions and away from all sources of ignition

SECTION: 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Eyes Protection:	The use of safety glasses is recommended.
Respiratory Protection:	In well- ventilated areas, respiratory protection is not normally required.
Protective Gloves:	Using chemical resistant gloves is recommended.
Protective Clothing:	Using chemical resistant clothing is recommended.
Protective Equipment:	An eyewash fountain and / or safety shower should be available in the work area.

SECTION: 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Solid white flakes.
Odor:	Odorless.
Solubility:	Soluble in alcohol and oils. Insoluble in water.
Specific Gravity:	1.01 – 1.03 @ 20°C
Melting Point:	86 °C
Free Fatty Acids:	0.64 – 1.34
Iodine Value:	1 – 5
Acid Value:	0.7 – 3.0
Hydroxyl Value:	154 – 162
Saponification Value:	176 – 182
Extraction Method:	Hydrogenation of castor oil over nickel catalyst.
Flash Point:	316 °C

SECTION: 10. STABILITY AND REACTIVITY

Stability:	Chemically stable.
Conditions to Avoid:	Avoid sparks, flame and excessive heat.
Materials to Avoid:	Strong oxidizing agents.
Flammability:	N/A
Hazardous Polymerization:	Will not occur.
Hazardous Combustion or	None known.



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Decomposition Products: When heated to decomposition produces carbon dioxide and monoxide smoke.

SECTION: 11. TOXICOLOGICAL INFORMATION

Inhalation: Inhalation of high concentrations of vapor may result in irritation of eyes, nose and throat, headache, nausea, and dizziness.

Skin Contact: 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

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: May aggravate dermatitis and other skin conditions.

Chronic Toxicity: May cause allergic reactions on skin

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

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): Not Available

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: August 9, 2011



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SECTION: 17. DISCLAIMER

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CERTIFICATE OF ANALYSIS

Product: Castor Flakes Vegetable Wax
Lot No.: 30005-A06
Manufacturing Date: November 19, 2010
Best Before: November 19, 2012

<u>Property</u>	<u>Specification</u>	<u>Result</u>
Appearance:	Solid white flakes.	Complies
Odor:	Odorless.	Complies
Solubility:	Soluble in alcohol and oils. Insoluble in water.	Complies
Specific Gravity:	1.01 – 1.03 @ 20°C	1.02
Melting Point:	86 °C	86 C
Iodine Value (Method CC421):	1.0 – 5.0	2.6
Acid Value (Method CC408):	0.8 – 3.0	1.0
Hydroxyl Value (Method CC407A):	154 – 162	154.7
Saponification Value:	176 – 182	Complies

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