

SAFFIRE BLUE *inc.*

MATERIAL SAFETY DATA SHEET

SECTION: 1.1 PRODUCT IDENTIFICATION

Product Name: Neem Carrier oil
Botanical Name: *Azadirachta indica*
Synonyms: *Melia azadirachta, Antelaea azadirachta, Azedarach fraxinifolia*
INCI Name: Azadirachta indica seed oil
CAS #: 8002-65-1
County of Origin: India

SECTION: 1.2 COMPANY IDENTIFICATION

Company: Saffire Blue Inc.
Address: 1444 Bell Mill Sideroad, Tillsonburg, ON N4G4G9
Telephone No: 877-248-1115

24 HOUR EMERGENCY TELEPHONE NUMBER: (613)-996-6666 CANUTEC

SECTION: 2. COMPOSITION / INFORMATION INGREDIENTS

Contents: Azadirachtin, meliantriol, vepol, salannin, margosic acid, nimbin, nimbodin, nimbinin, kaempeerol, azadirone, quercursertin, praisine, *b*-sitosterol, stigmasterol, campesterol, vanilic acid, nimbicetin, oleic acid, meliacins, steardiolein, palmitodiolein, oleopalmitostearin, oleodipalmein, myristic acid, palmitic acid, stearic acid, linoleic acid

Azadirachtin: 300 – 2000 ppm

SECTION: 3. HAZARDS IDENTIFICATION

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

Medical Information: N/A

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: 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: 171 °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.

SAFFIRE BLUE *inc.*

MATERIAL SAFETY DATA SHEET

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

SECTION: 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Use of self-contained breathing apparatus is recommended for any major chemical spill. Refer also to section 8.

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: 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. 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: Yellowish brown to dark greenish brown liquid.

Odor: Characteristic garlic-like repulsive odor.

Solubility: Soluble in alcohol and oils. Insoluble in water.

Specific Gravity: 0.908 – 0.934 @ 27°C

Refractive Index: 1.4615 – 1.4705 @ 47°C

Iodine Value : 65 – 80

Free Acid Value: < 5.0%

Boiling Point: >200°C

Saponification Value : 175 – 210

SAFFIRE BLUE *inc.*

MATERIAL SAFETY DATA SHEET

Extraction Method: Expeller pressed from the seeds.

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.

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: 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, psoriasis 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

Dispose of in accordance with local, provincial and federal regulations. Check with disposal expert to ensure compliance

SECTION: 14. TRANSPORT INFORMATION

US DOT Shipping Description: Not Regulated

IATA Shipping (Air): Not Regulated

IMDG Shipping Description: Not Regulated

SECTION: 15. REGULATORY INFORMATION

WHMIS (Canada): Not Available

HMIS (USA): Health Hazard – Fire Hazard – Reactivity –

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: Xn R22 Harmful if swallowed.

SAFFIRE BLUE *inc.*

MATERIAL SAFETY DATA SHEET

Xi R38 Irritating to skin
S36/37/38 Wear suitable protective clothing, gloves and eye/face protection.

SECTION: 16. OTHER INFORMATION

Revision Date: June 26, 2014

SECTION: 17. DISCLAIMER

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CERTIFICATE OF ANALYSIS

Product: **Neem Carrier Oil**
Product Lot No: 11097- A18, B18, C18, D18, E18, F18
Expiry date December, 2015
Store in air tight container; in a cool dry area; away from direct sunlight.

Properties	Specifications	Results
Appearance:	Greenish brown viscous oil.	Complies
Odor:	Characteristic strong odor.	Complies
Solubility:	Soluble in alcohol and oils. Insoluble in water.	Complies
Specific Gravity:	0.908 – 0.934 @ 27°C	0.926
Refractive Index:	1.4615 – 1.4705 @ 47°C	1.4702
Iodine Value:	65 – 80	77.2
Saponification Value	175 – 210	194.72
Moisture %:	< 2.0%	0.20%
Free fatty acids%:	< 5.0%	2.40%
Acid Value %:	< 20.0%	9.28%
Unsaponifiable matter%	< 2.0%	Complies

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