



Plant's Power Inc
3-2700 St.Clair Ave west
Toronto, Ontario, M6N 1M2
Contact: 1-416-766-1254

Material Safety Data Sheet Neem Oil

Section 1: Product and Company Identification

Product Name: Neem Oil

Botanical Name: *Azadirachta indica*

INCI Name: Azadirachta indica seed oil

CAS #: 8002-65-1

Country of Origin: Bangladesh

Synonym: *Melia azadirachta*, *Antelaea azadirachta*, *Azedarach fraxinifolia*

Contact information:

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Section 2: Composition and Information on Ingredients

Chemical Identification: Oils, Neem

UN No. 9277: Oils n.o.s with flash point NOT LESS than 93°C (200°F)

Toxicological Data on Ingredients: Not applicable

Section 3: Hazards Identification

Routes of Entry

Eye Contact: Mild irritation may occur

Skin Contact: No known hazard

Ingestion: No known hazard

Inhalation: No known hazard

Section 4: First Aid Measures

Eyes: Flush with plenty of water or eye wash solution for 15 minutes. Get medical attention if irritation persists.

Skin: Wash with soap and water – get medical attention if irritation persists.

Ingestion: Rinse mouth out with water. If irritation persists, seek medical advice.

Inhalation: N/A

Section 5: Fire and Explosion Data

Flash Point: 178°C

Extinguishing Media: Dry chemical, carbon dioxide, fog, foam

Special Firefighting Procedure: Do not use direct water jet on burning material. Cool containers exposed to flames with water. Limit the spread of oil. Treat as an oil fire. Avoid vapour inhalation. Wear positive pressure self-contained breathing apparatus and protective clothing.

Section 6: Accidental Release Measures

Methods for Cleaning Up: Absorbs onto an inert, absorbent substrate and sweep up. Wash area with soap and water.

Section 7: Handling and Storage

Handling

Safe Handling: Keep away from oxidizing agents, sources of ignition and open flames.

Storage: Store in a cool, dry location, in a sealed container.

Section 8: Exposure Controls/Personal Protection

Eye: Safety glasses may be worn.

Skin/Body: Gloves should be worn.

Respiratory: Not needed under normal conditions of use.

Other: Evaluate need based on application. Slip proof shoes may be worn where spills may occur.

Work/Hygiene

Practice: Normal work and hygiene practices for handling non-hazardous liquid material.

Section 9: Physical and Chemical Properties

Physical State: Viscous Liquid

Color: Yellowish brown to dark greenish brown liquid

Odor: Characteristic, garlic-like repulsive odour

Flash Point: 178°C

Specific Gravity: 0.908 – 0.934 at 27°C

Refractive Index: 1.45 – 1.47 at 47°C

Iodine Value: 65 – 80
Saponification Value: 175 – 205
Azadirachtin: 300 – 2000 ppm
Extraction Method: Expelled pressed of the seeds
Solubility in Water: Insoluble
Contents: Azadirachtin, meliantriol, vepol, salannin, margosic acid, nimbin, nimbidin, nimbinin, kaempeerol, azadirone, quercusertin, praisine, b-sitosterol, stigmasterol, campesterol, vanilic acid, nimbicetin, oleic acid, meliacins, steardiolein, palmitodiolein, oleopalmitostearin, oleodipalmein, myristic acid, palmitic acid, stearic acid, linoleic acid

Section 10: Stability and Reactivity Data

Stability: Stable under normal conditions of use.
Incompatibility
(Materials to Avoid): Avoid strong oxidizers, acids and alkali
Conditons to Avoid: None
Hazardous Decomposition: None (Thermal decomposition products of H₂O and CO₂)
Hazardous Polymerization: Will not occur

Section 11: Toxicological Information

Acute Oral: LD₅₀: >5g/kg [Rat]
Acute Dermal: LD₅₀: >2g/kg [Rat]
Inhalation: LC₅₀: >0.72 mg/Litre [Rat]
Irritancy: Skin: Not expected to be an irritant
Eyes: Not expected to be an irritant
Mutagenicity: Non-mutagenic
Neurotoxicity: None
Carcinogenicity: Non-carcinogenic
Toxicity: May irritate eyes, skin and cause sensitization after prolong use in some individuals.

Section 12: Ecological Information

Biodegradaton: Readily biodegradable

Section 13: Disposal Considerations

Waste Disposal: Do not put into sewer lines. Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Section 14: Transport Information

DOT Classification: Not a DOT controlled material (United States).
Class/Division: Not restricted
Proper Shipping Name: N/A
Label: None

Packing Group:	N/A
ID Number:	N/A
Hazard:	N/A
Flammability:	Non-flammable

Section 15: Other Regulatory Information

Not available

Section 16: Other Information

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