



AUSTRALIA NATURAL PRODUCTS

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TECHNICAL DATA SHEET (TDS) NEEM OIL (*Azadirachta Indica Seed Oil*)

1. PRODUCT IDENTIFICATION & OVERVIEW

Product Name	Neem Oil
INCI Name	<i>Azadirachta Indica Seed Oil</i>
Botanical Name	<i>Azadirachta indica</i> A. Juss.
CAS Number	8002-65-1
Description	100% Pure and Natural oil obtained by cold pressing or solvent extraction of the dried seed kernels of <i>Azadirachta indica</i> .

2. TECHNICAL & SENSORY PROPERTIES

Appearance	Clear to slightly turbid liquid
Colour	Dark amber to brown-green
Odour	Strong, characteristic pungent, garlic-like
Azadirachtin Content	300 – 3000 ppm
Specific Gravity (30°C)	0.908 – 0.934
Refractive Index (40°C)	1.4615 – 1.4705
Iodine Value	65 – 95
Saponification Value	160 – 205
Acid Value	NMT 4.0 – 6.0 mg KOH/g
Moisture & Insoluble Impurities	0.9% max

Main Fatty Acid Composition	Oleic acid (50–60%), Stearic acid (15–20%), Palmitic acid (13–16%), Linoleic acid (8–16%)
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3. APPLICATIONS & USES

Cosmetic & Personal Care	Used in skin and hair care formulations for its antimicrobial, antifungal, and conditioning properties. Typically incorporated at 1–5% due to strong odour.
Ayurvedic & Traditional Medicine	Used topically for skin conditions, wound healing, and as an anti-inflammatory agent.
Agricultural Biopesticide	Acts as insect repellent, antifeedant, and growth regulator against a wide range of pests. Effective against whiteflies, aphids, mites, and fungal diseases such as mildews and rusts.
Household & Veterinary	Used as a natural insect repellent for pets and in household pest control formulations.

4. STORAGE, PACKAGING & SAFETY

Storage Conditions	Store in a cool, dark, dry place away from direct sunlight. Keep container tightly closed. Temperature range: 12°C – 35°C.
Shelf Life	18 – 24 months under proper storage conditions.
Safety & Handling	Avoid contact with eyes. May cause mild skin irritation. Repeated exposure may cause sensitization in susceptible persons. Use protective gloves and eye protection.

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