

Page 8.

MATERIAL SAFETY DATA SHEETDate Issued: July, 1991 - MIDLAND BIOCIDES LTD.
Barker Gate, Nottingham, UK.**SECTION 1 IDENTIFICATION**

TRADE NAME:

EINSTEIN OIL

CHEMICAL NAME:

Extract of Azadiracta indica (Neem Seed Oil)

CHEMICAL COMPOSITION IF PRODUCT IS A MIXTURE:

INGREDIENTS:

Limonoids and tetranortriterpenoids
Fatty acids**SECTION 2 GENERAL PROPERTIES**

Brown oil or yellow brown wax

Moderately strong characteristic odor

Non-hazardous

Non-corrosive

Microbicide used in domestic and industrial preparations

SECTION 3 PHYSICAL/CHEMICAL PROPERTIES

Wax point 17-21° C

Refractive Index at 40° C - 1.4678

Moisture and volatile matter - 0.27%

Solubility

- water : sparingly

- ethanol : miscible in all proportions

- isopropanol : miscible in all proportions

SECTION 4 HAZARDS

HEALTH:

Non-hazardous

FIRE AND EXPLOSION:

Non-flammable

Non-volatile

Page 9.

MATERIAL SAFETY DATA SHEET Continued.**SECTION 5 REACTIVITY DATA**

STABILITY:	Stable
CONDITIONS TO AVOID:	None
INCOMPATIBILITY:	None
HAZARDOUS DECOMPOSITION PRODUCTS:	None
HAZARDOUS POLYMERISATION:	None

SECTION 6 HEALTH HAZARD DATA

ACUTE ORAL TOXICITY:	rat LD ₅₀ 14 ml/kg
ACUTE DERMAL TOXICITY:	rabbit LD ₅₀ 24 ml/kg
PRIMARY EYE IRRITATION:	None reported
PRIMARY SKIN IRRITATION:	None reported
OTHER:	No reported evidence of skin sensitizations

Sodium nimbidinate (A major Tetranortriterpinoid Component)

Intraperitoneal LD ₅₀ in mice	- 700 mg/kg
Oral LD ₅₀ in dogs	- 200 mg/kg
Intramuscular LD ₅₀ in dogs	- 200 mg/kg
Intravenous LD ₅₀ in dogs	- 200 mg/kg

SECTION 7 ENVIRONMENTAL AND ECOLOGICAL HAZARD DATA

SPILL OR LEAK PROCEDURES: Wash away with detergent and water.

SECTION 8 EMERGENCY ACTION**FIRST AID**

SKIN:	Remove contaminated clothing Wash with soap and water
EYES:	Wash with recommended eye-wash
INGESTION:	Wash out mouth thoroughly with water Drink water. Obtain medical attention

Page 10.

MATERIAL SAFETY DATA SHEET Continued..

SECTION 9 PROTECTION INFORMATION

RESPIRATORY PROTECTION: No special protection required
VENTILATION: No special protection required
SKIN PROTECTION: No special protection required
EYE PROTECTION: No special protection required
OTHER PROTECTION: No special protection required
Apply good chemical handling practice

SECTION 10 STORAGE CONDITIONS AND PRECAUTIONS

CONDITIONS: To ensure pourability, store at above 20° C
PRECAUTIONS: No special precautions

SECTION 11 DISPOSAL

Bury in licensed land-fill site in accordance with the Control of Pollution Act

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