

MATERIAL SAFETY DATA SHEET

Azakaranj

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Azakaranj (azadirachtin 3000ppm) Biological Insecticide
PRODUCT CODES: EPA Reg. No. 84185-4-87193
EPA Est. No. 87193-FL-001

SYNONYMS:

MANUFACTURER: Custom Liquid Solutions, LLC
ADDRESS: 534 CR 529A, Lake Panasoffkee, FL 33538 USA

DIVISION:

EMERGENCY PHONE: 352-793-1682
FAX PHONE: 352-793-4864

CHEMTREC PHONE: 1-800-262-8200

CHEMICAL NAME: Cold Pressed Neem Oil
CHEMICAL FORMULA: Cold Pressed Neem Oil

CHEMICAL FAMILY:

GENERAL/GENERIC ID:
Section 1 NOTES:

UPDATED BY: February 17, 2010

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT: Cold Pressed Neem Oil, containing 0.02503 lb. Azadirachtin per gal (azadirachtin 3000 ppm)

<u>CAS NO.</u>	<u>% WT</u>	<u>% VOL</u>	<u>SARA 313 REPORTABLE</u>
8002-65-1	100%		
	<u>ppm</u>	<u>mg/m3</u>	
OSHA PEL-TWA: N/A			
OSHA PEL STEL: N/A			
OSHA PEL CEILING: N/A			
ACGIH TLV-TWA:			
ACGIH TLV STEL:			
ACGIH TLV CEILING:			

Section 2 NOTES:

SECTION 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Does not contain hazardous ingredients

ROUTES OF ENTRY:

Inhalation: Not Likely

Skin: No

Ingestion: Not Likely

POTENTIAL HEALTH EFFECTS

EYES: None known

SKIN: None Known

INGESTION: Chronic ingestion not likely

INHALATION: Chronic exposure not likely

CHRONIC AND ACUTE HEALTH HAZARDS:

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: None Known

CARCINOGENICITY:

OSHA: N.A.

NTP: N.A.

IARC: N.A.

OTHER:

Section 3 NOTES:

SECTION 4: FIRST AID MEASURES

EYES: Wash with plenty of water. Seek medical advice if irritation persists.

SKIN: Remove contaminated clothing. Wash with soap and water. Seek medical attention if irritation persists.

INGESTION: For doses larger than two ounces, drink water and seek medical attention.

INHALATION: Remove to fresh air. Seek medical advice if irritation persists.

NOTES TO PHYSICIANS OR FIRST AID PROVIDERS: Nothing recommended as the product is safe and non-toxic.

SIGNS AND SYMPTOMS OF EXPOSURE:

Section 4 NOTES:

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SECTION 5: FIRE-FIGHTING MEASURES

FLAMMABLE LIMITS IN AIR (% BY VOLUME): UPPER: LOWER:
FLASH POINT: F: C:

METHOD USED:

AUTOIGNITION TEMPERATURE: F: C:

NFPA HAZARD CLASSIFICATION

HEALTH: FLAMMABILITY: REACTIVITY: OTHER:
Hazard Classification Key: 0- least, 1- slight, 2- moderate, 3- high, 4- extreme

EXTINGUISHING MEDIA: Dry chemical powder/CO2 or polymer foam.

SPECIAL FIRE FIGHTING PROCEDURES: None known

UNUSUAL FIRE AND EXPLOSION HAZARDS: None known

Section 5 NOTES:

SECTION 6: ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE MEASURES:

Land Spill: Ventilate area of spill and clean up with detergent and water.

Water Spill: Dyke around spill. Absorb or collect in containers for disposal.

Section 6 NOTES:

SECTION 7: HANDLING AND STORAGE

HANDLING AND STORAGE: Store in a cool, dark, dry place below 45 deg. C (113 deg. F)

OTHER PRECAUTIONS:

SPILL STEPS:

Section 7 NOTES: Shelf life: Best used within 10 months from date of manufacture

SECTION 8: EXPOSURE CONTROLS/ PERSONAL PROTECTION

ENGINEERING CONTROLS:

VENTILATION: Adequate ventilation recommended

RESPIRATORY PROTECTION: None necessary

EYE PROTECTION: Adequate protection recommended

SKIN (Hands, Arms, and Body) PROTECTION: Normal clothing with chemical resistant gloves.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT:

WORK HYGIENIC PRACTICES:

EXPOSURE GUIDELINES:

LOCAL EXHAUST:

Section 8 NOTES:

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Yellowish brown

ODOR: Garlic repulsive

PHYSICAL STATE: Liquid at 20 deg. C

pH OF CONCENTRATE: 5.3 at 21 deg. C (70 deg. F)

BOILING POINT: 175 deg. C (347 deg. F)

MELTING POINT: F: C:

FREEZING POINT: F: 57.2 C: 14

VAPOR PRESSURE (mmHg): 2.5×10^{-7} mm of Hg at 25 deg. C

VAPOR DENSITY (AIR = 1): 1.46

SPECIFIC GRAVITY (H₂O = 1): .922 gram/milliliter (8.27 lb. per gallon) at 22 deg. C (72 deg. F)

EVAPORATION RATE:

BASIS (=1):

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (con't)

SOLUBILITY IN WATER: Not soluble

PERCENT SOLIDS BY WEIGHT:

PERCENT VOLATILE:

BY WT/ BY VOL @

F:

C:

VOLATILE ORGANIC COMPOUNDS (VOC):

WITH WATER: LBS/GAL

WITHOUT WATER: LBS/GAL

MOLECULAR WEIGHT:

VISCOSITY:

@

F:

C:

Section 9 NOTES:

SECTION 10: STABILITY AND REACTIVITY

STABILITY: Stable

CONDITIONS TO AVOID (STABILITY): Exposure to direct sunlight and heat.

INCOMPATIBILITY (MATERIAL TO AVOID): Incompatible with oxidizing agents, reducing metals, alkalis and acids.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: Possible at higher temperatures and may liberate irritating fumes.

HAZARDOUS POLYMERIZATION: Will not occur

CONDITIONS TO AVOID (POLYMERIZATION):

Section 10 NOTES:

SECTION 11: TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION:

Section 11 NOTES: Oral Rat: >500 mg/kg Inhalation: >2.1l mg/liter Eye irritation: Non irritant Dermal Rat: >200mg/kg

Skin irritation: Non irritant Ingestion: None known Chronic effects: None known

SECTION 12: ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION:

Section 12 NOTES: Chemical Fate: Product is sensitive to light and rapidly degrades Ecotoxicity: Not known

Do not apply directly, pour or dispose into water bodies.

SECTION 13: DISPOSAL CONSIDERATIONS:

WASTE DISPOSAL METHOD: Comply with local regulations.

RCRA HAZARD CLASS:

Section 13 NOTES:

SECTION 14: TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION

PROPER SHIPPING NAME: Neem Oil

HAZARD CLASS: N/A

ID NUMBER:

LABEL STATEMENT:

DOT SHIPPING CLASS:

PACKING GROUP:

WATER TRANSPORTATION

PROPER SHIPPING NAME:

HAZARD CLASS:

ID NUMBER:

PACKING GROUP:

LABEL STATEMENTS:

AIR TRANSPORTATION

PROPER SHIPPING NAME:

HAZARD CLASS:

ID NUMBER:

PACKING GROUP:

LABEL STATEMENTS:

OTHER AGENCIES:

Section 14 NOTES:

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SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS

TSCA (TOXIC SUBSTANCE CONTROL ACT): EPA REG. NO. 84185-4-87193 EPA EST. NO. 87193-FL-001

CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT):

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT):

311/312 HAZARD CATEGORIES:

313 REPORTABLE INGREDIENTS:

STATE REGULATIONS:

INTERNATIONAL REGULATIONS:

Section 15 NOTES:

SECTION 16: OTHER INFORMATION:

OTHER INFORMATION: Reason for Issue: EPA Pesticide registration

Date of Issue: 12/10/2009

PREPARATION INFORMATION:

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