

TRIPLE ACTION NEEM OIL MATERIAL SAFETY DATA SHEET

Page 1 of 2

EPA Registration Number 70051-2-829

I. CHEMICAL PRODUCT INFORMATION

PRODUCT NAME TRIPLE ACTION NEEM OIL
CHEMICAL FAMILY Lipid
CHEMICAL NAME Clarified hydrophobic extract of Neem Oil
FORMULA N/A

II. COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENT	CAS#	WT.%	OSHA	TLV's	
			PEL	TWA	STEL
Clarified hydrophobic extract of Neem Oil	8002-65-1	70	N/A	N/A	N/A
Inert ingredient	5989-27-5	25	N/A	N/A	N/A

III. HAZARDOUS IDENTIFICATION

EMERGENCY OVERVIEW

This product is intended for use as a pesticide to control insects on agricultural crops. This product should pose no health concerns through normal use in accordance with label directions. Flammable liquid. Keep away from heat, sparks, or open flame.

Potential Health Effects

ROUTE(S) OF ENTRY Eyes, skin, oral, inhalation
HUMAN EFFECTS AND SYMPTOMS OF OVEREXPOSURE None noted
ACUTE EYE CONTACT May cause mild, reversible eye irritation
CHRONIC EYE CONTACT Chronic exposure not likely from normal use
ACUTE SKIN CONTACT Repeated exposure may cause mild sensitization
CHRONIC SKIN CONTACT Repeated exposure may cause slight sensitization
ACUTE INGESTION LD50>5g/kg
CHRONIC INGESTION Chronic exposure not likely from normal use
ACUTE INHALATION LC50>6.2 mg/l
CHRONIC INHALATION Chronic exposure not likely from normal use
CARCINOGENICITY
NTP N/A IARC N/A
OSHA N/A
MEDICAL CONDITIONS
AGGRAVATED BY EXPOSURE: None noted

IV. FIRST AID MEASURES:

FIRST AID FOR EYES Hold eyelids open and flush with a steady, gentle stream of water for at least 15 minutes. Get medical attention.
FIRST AID FOR SKIN Wash with soap and water. Remove contaminated clothing. Seek medical attention if irritation persists.
FIRST AID FOR INHALATION Remove to fresh air. Seek medical attention if irritation persists.
FIRST AID FOR INGESTION Swallowing less than one ounce will not cause significant harm. For larger amounts, do not induce vomiting, but give one or two glasses of water to drink and get medical attention.

V. FIRE FIGHTING MEASURES:

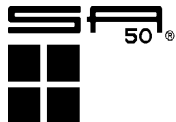
NFPA HAZARD
CLASSIFICATION HEALTH HAZARD 1 FIRE HAZARD 2 REACTIVITY 0
EXTINGUISHING MEDIA Dry chemical, carbon dioxide, alcohol or polymer foam.
UNUSUAL FIRE AND EXPLOSION HAZARDS None
SPECIAL FIRE FIGHTING PROCEDURES None

VI. ACCIDENTAL RELEASE MEASURES:

SPILL OR LEAK PROCEDURES Wear SCBA, rubber boots, and heavy rubber gloves. Shut off sources of ignition. Dike around spill, absorb on sand or similar, and place in closed containers for disposal. Ventilate area and wash spill site after material pick-up. Avoid run-off into storm sewers and ditches which lead to waterways.

VII. HANDLING AND STORAGE:

STORAGE TEMPERATURE
(MIN. / MAX.) 55 / none °F 13 / none °C
SHELF LIFE Stable for upwards of 2 years at ambient conditions
SPECIAL SENSITIVITY Keep from freezing
HANDLING AND STORAGE PRECAUTIONS None



TRIPLE ACTION NEEM OIL MATERIAL SAFETY DATA SHEET

Page 2 of 2

VII. EXPOSURE CONTROLS / PERSONAL PROTECTION:

EYE PROTECTION REQUIREMENTS The use of safety goggles is recommended
SKIN PROTECTION REQUIREMENTS The use of chemical-resistant gloves is required
RESPIRATORY / VENTILATION REQUIREMENTS Use with adequate ventilation
EXPOSURE LIMITS None

IX. PHYSICAL AND CHEMICAL PROPERTIES:

PHYSICAL FORM	Liquid	COLOR	Brown
ODOR	Garlic	BOILING POINT RANGE	310 °F 154 °C
MELT POINT / FREEZE RANGE	55 °F 13 °C	FLASH POINT	102 °F 39 °C
AUTO IGNITION	N/A °F °C		
UPPER EXPLOSIVE LIMITS (UEL)	Not determined		
LOWER EXPLOSIVE LIMITS (LEL)	Not determined		
pH	6.5-7.5	SOLUBILITY IN WATER	Dispersible
SPECIFIC GRAVITY	0.914 g/ml	BULK DENSITY	N/A
% VOLATILE BY WEIGHT	25	VAPOR PRESSURE at 20 °C	2 mm Hg
VAPOR DENSITY	0.012		

X. STABILITY AND REACTIVITY:

STABILITY	Stable	HAZARDOUS POLYMERIZATION	Will not occur
INCOMPATIBILITIES	None noted	DECOMPOSITION PRODUCTS	None known
CONDITIONS TO AVOID	None		

XI. TOXICOLOGICAL INFORMATION:

Avoid breathing spray mist. In case of eye contact, flush eyes with plenty of water. If on skin, wash with soap and water. If irritation persists, get medical attention.

XII. ECOLOGICAL INFORMATION:

Do not apply directly to water, or to areas where surface water is present, or to inter-tidal areas below the mean high water mark. Do not contaminate water by cleaning of equipment or disposal of equipment washwaters. This product is toxic to bees exposed to direct treatment. Do not apply this product while bees are actively visiting the treatment area.

XIII. DISPOSAL CONSIDERATIONS:

WASTE DISPOSAL METHOD Rinsewater and unused diluted product may be disposed of on-site or in an approved waste disposal facility

XIV. TRANSPORTATION INFORMATION:

D.O.T. PROPER SHIPPING NAME	N/A	TECHNICAL SHIPPING NAME	Clarified hydrophobic extract of Neem Oil
D.O.T. HAZARD CLASS	N/A	U.N. / N.A. NUMBER	N/A
PRODUCT RQ (lbs.)	N/A	D.O.T. LABEL	N/A
D.O.T. PLACARD	N/A		

XV. REGULATORY INFORMATION:

OSHA STATUS	N/A	TSCA STATUS	N/A
CERCLA REPORTABLE QUANTITY	N/A		
SARA TITLE III:			
SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES	N/A	SECTION 311/312 HAZARD CATEGORIES	N/A
SECTION 313 TOXIC CHEMICALS	N/A	RCRA STATUS	N/A
STATE REGULATORY INFORMATION: The following chemicals are specifically listed by individual states; other product specific health and safety data in other sections of the MSDS may also be applicable for state requirements. For detail on your regulatory requirements you should contact the appropriate agency in your state.			

XVI. OTHER INFORMATION:

DATE Sept. 11, 2001

To the best of our knowledge, the information contained herein is accurate. However, Southern Agricultural Ins., Inc. does not assume any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All material may present unknown health hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist.