

Product Name: NEEMIX 4.5 EC
Emergency Information: Chem Tel (800) 255-3924
Outside North America Call Collect (813) 248-0585

MATERIAL SAFETY DATA SHEET

Certis USA
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Columbia, MD 21046

1. CHEMICAL PRODUCT AND COMPANY INFORMATION

PRODUCT NAME..... : NEEMIX 4.5 EC
PRODUCT CODE..... : CX-3130
CHEMICAL FAMILY : Emulsifiable Concentrate
CHEMICAL NAME..... : Botanical Agricultural Insecticide / Insect Growth Regulator
FORMULA..... : N/A

EMERGENCY TELEPHONE NUMBERS:

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2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>COMPONENT</u>	<u>CAS #</u>	<u>WT.%</u>	<u>OSHA PEL</u>	<u>TWA</u>	<u>TLV's</u>	<u>STEL</u>
Azadirachtin	11141-17-6, 95507-03-2	4.5	N/A	N/A		N/A

3. HAZARDOUS IDENTIFICATION

EMERGENCY OVERVIEW

This product is a dark brown liquid 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. Keep away from heat, sparks, or open flame.

Signal Word: WARNING

Potential Health Effects

ROUTE(S) OF ENTRY..... : Eyes, skin, oral, inhalation

HUMAN EFFECTS AND SYMPTOMS OF OVEREXPOSURE : None noted

ACUTE EYE CONTACT : Causes substantial but temporary eye injury

CHRONIC EYE CONTACT..... : Chronic exposure not likely from normal use

ACUTE SKIN CONTACT..... : May cause mild, reversible skin irritation

CHRONIC SKIN CONTACT : Repeated exposure may cause slight sensitization

ACUTE INGESTION..... : LD₅₀ > 5,000 mg/kg

CHRONIC INGESTION : Chronic exposure not likely from normal use

ACUTE INHALATION : LC₅₀ > 2.05 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

4. 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. If not breathing give artificial respiration, preferably mouth-to-mouth.

FIRST AID FOR INGESTION : Do not induce vomiting. Drink 2-3 glasses of water. Contact a physician for further treatment.

5. FIRE FIGHTING MEASURES:

NFPA HAZARD CLASSIFICATION : HEALTH HAZARD 1 FIRE HAZARD 3
..... REACTIVITY 0

EXTINGUISHING MEDIA : Dry chemical, carbon dioxide, alcohol or polymer foam

UNUSUAL FIRE AND EXPLOSION HAZARDS : Flammable liquid. Keep away from heat, sparks, or open flame

SPECIAL FIRE FIGHTING PROCEDURES : None

6. ACCIDENTAL RELEASE MEASURES:

SPILL OR LEAK PROCEDURES : Wear SCBA, rubber boots, and heavy rubber glove. Shut off sources of ignition. Dike around spill, adsorb 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.

7. HANDLING AND STORAGE:

STORAGE TEMPERATURE (MIN. / MAX.) : 50°F / 95°F 10°C / 35°C

SHELF LIFE : Stable for upwards of 2 years at 25°C

SPECIAL SENSITIVITY : Avoid temperature extremes, direct sunlight

HANDLING AND STORAGE PRECAUTIONS : Keep container tightly closed when not in use. Store in a cool, dry place away from feed and foodstuffs. Keep away from heat, sparks, or open flame. Wear goggles and or face shield.



8. 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 : N/A

9. PHYSICAL AND CHEMICAL PROPERTIES:

PHYSICAL FORM : Liquid at 25°C
COLOR : Dark brown
ODOR : Disinfectant
BOILING POINT RANGE..... : Not determined
MELT POINT / FREEZE POINT : Not determined
FLASH POINT : 153°F 67°C
AUTO IGNITION : N/A
UPPER EXPLOSIVE LIMITS (UEL)..... : Not determined
LOWER EXPLOSIVE LIMITS (LEL) : Not determined
pH..... : 5.8
SOLUBILITY IN WATER..... : Dispersible
SPECIFIC GRAVITY : 0.947 g/mL
BULK DENSITY : N/A
% VOLATILE BY WEIGHT..... : 54.50
VAPOR PRESSURE at 20 ° C : 2.14 mm Hg
VAPOR DENSITY : 3.94

10. STABILITY AND REACTIVITY:

STABILITY : Stable
HAZARDOUS POLYMERIZATION : Will not occur
INCOMPATIBILITIES : Acids, acid chlorides, oxidizing agents, reducing metals, alkali metals
DECOMPOSITION PRODUCTS..... : None known
CONDITIONS TO AVOID : Keep away from heat, sparks, or open flame

11. TOXICOLOGICAL INFORMATION:

Harmful if swallowed. Avoid contact with skin, eyes, or clothing. Avoid contamination of feed and foodstuffs. Avoid breathing spray mist. In case of contact, flush eyes with plenty of water. If on skin, wash with soap and water. If irritation persists, get medical attention.

12. ECOLOGICAL INFORMATION:

This product may be hazardous to fish and aquatic invertebrates. Do not apply directly to water, or to areas where surface water is present or in areas below the mean high water mark. Do not contaminate water by cleaning of equipment or disposal of water.



13. DISPOSAL CONSIDERATIONS:

WASTE DISPOSAL METHOD..... : Rinse water and unused diluted pesticide may be disposed of on-site or in an approved waste disposal facility.

14. TRANSPORTATION INFORMATION:

D.O.T. PROPER SHIPPING NAME..... : N/A
TECHNICAL SHIPPING NAME..... : Neemix 4.5
D.O.T. HAZARD CLASS..... : Not regulated in non-bulk packaging
U.N. /N.A. NUMBER..... : N/A
PRODUCT RQ (lbs.)..... : N/A
D.O.T. LABEL..... : N/A
D.O.T. PLACARD..... : N/A

15. 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

16. OTHER INFORMATION:

REASON FOR ISSUE..... : Updated to EU form of 16 chapters
APPROVAL DATE..... : January 30, 2009
SUPERSEDES DATE..... : July 3, 2007
MSDS NUMBER..... : 70051-9

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