

1: IDENTIFICATION

Chemical Name	dimethyl (1S,4S,5R,6S,7S,8R,11S,12R,14S,15R)-12-acetyloxy-4,7-dihydroxy-6-[(1S,2S,6S,8S,9R,11S)-2-hydroxy-11-methyl-5,7,10-trioxatetracyclo[6.3.1.02,6.09,11]dodec-3-en-9-yl]-6-methyl-14-[(E)-2-methylbut-2-enoyl]oxy-3,9-dioxatetracyclo[6.6.1.01,5.011,15]pentadecane-4,11-dicarboxylate		
Synonyms	Azadirachtin - 1% (10000 ppm) min.	Trade Name	NEEMLY (AZADIRACHTIN 10000 PPM)
Uses	Crop Protection	Molecular Formula	C ₃₅ H ₄₄ O ₁₆
Manufacturer/ Supplier	Ulink AgriTech Pvt. Ltd. Office Nos. 001 And 002, Ground Floor Wing "A" And Nos. 003 And 004 Ground Floor Wing "B", Nyati Tech Park, Wadgaon Sheri, Pune - 411014, Maharashtra		
Emergency Contact	9503095030	E-mail	info@agrostar.in

2: COMPOSITION/INFORMATION OF INGREDIENTS

Chemical Name	CAS #	Percent or Content (w/w)
Azadirachtin	11141-17-6	1% (10000 ppm)

3: HAZARD IDENTIFICATION

Human Health Hazard : When Azadirachtin- 1% gets on the skin, it can cause skin sensations like tingling, itching, burning, or numbness at that spot. These sensations usually go away within 48 hours. Azadirachtin- 1% can be mildly irritating if it gets in the eye.

Emergency : Warning! Keep out of reach of children. Toxic if swallowed and inhaled. Contact can cause eye or skin irritation.

Skin and Eyes : Avoid contact with mouth, skin and eyes

Entry Route : Ingestion, Inhalation, Contact with eye or skin.

Symptoms of Poisoning : Nasal discharge, Itching, Vomiting, eyes redness, anxiety and convulsions.

4: FIRST AID MEASURES

General: First Aid responders should pay attention to self-protection and use the recommended protective clothing (chemical resistant gloves, splash protection). Have the product container, label or safety data sheet while seeking medical attention, a poison control center or physician, or going for treatment.

Inhalation: Move patients to fresh air. Keep the patients warm and at rest. If person is not breathing then give artificial respiration, preferably mouth-to-mouth if possible. Allow patients to rest. Immediately seek medical attention.

Ingestion: Rinse mouth with water. Do not induce vomiting unless told by doctor. Do not give anything by mouth to an unconscious person. Seek medical attention immediately and show this container or label.

Skin Contact: In case of contact with product, wash immediately skin area with plenty of water and soap. Speed in removing material from skin is extremely important. Remove and isolate contaminated clothing and shoes. Call medical attention.

Eye Contact: Rinse immediately with plenty of water for several minutes. After 5 minutes remove contact lenses if present and continue rinsing with plenty of water. Continue to rinse with eyelid wide open for at least 15-20 minutes. Seek medical attention if irritation develops.

5: FIRE FIGHTING MEASURES

Extinguishing Media : Water spray, alcohol-resistant foam, dry chemical powder or carbon dioxide

Unsuitable Extinguishing Media : Direct water jet as it may spread fire

Specific Hazard : This product may emit toxic fumes when burned, including carbon monoxide and nitrogen oxides

Special Procedures: Move containers away from area if it can be done without risk. If possible remove containers from fire zone, cool them with water spray. Minimize use of water to prevent environmental contamination. Dike and collect water used to fight fire to prevent environmental damage due to runoff. If area is not too heavily exposed to fire, and if conditions permit, let fire burn itself out, since water may increase the contamination hazard. Do not discharge extinguishing water into the drain or water bodies.

Protection of Fire Fighters: Wear proper protective equipment and self breathing apparatus. Avoid inhalation of dust and gas and contact with skin and eyes.

6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: Avoid raising and breathing dust, and provide adequate ventilation. Use personal protective equipment including NIOSH approved self-contained breathing apparatus, or respirator, and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves). Evacuate personnel to safe areas. Keep people away from spill/ fumes.

Environmental Precaution: Do not allow runoff to enter drains and public waters. Notify the authorities if product enters.

Methods for Cleaning up: Carefully sweep up and place in a container for waste disposal. Clean contaminated floors and objects thoroughly with water and detergents. Dispose of in accordance with local regulations. If significant amount of product enters into drain, notify the local authorities.

7: HANDLING & STORAGE

Handling: Use with adequate ventilation. Avoid contact with skin and eyes. Do not breathe dust or vapor. Do not smoke, drink, or eat during handling. Wash hands using liquid detergent. Wear protective clothing to avoid contact and/or inhalation with the product. Good personal hygiene procedures must be practiced.

Storage: Store in dry, cool, well-ventilated area. Keep in original container and tightly closed when not in use. Keep away from food, drink and animal feeding stuffs and out of reach of children. Keep locked up. Avoid direct sunlight

8: EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures : Ensure working area is well-ventilated. Handle in accordance with good industrial hygiene and safety practice.

General Protection : Avoid contact with eyes and skin. While handling the product wear cotton overalls buttoned to the neck and wrist, elbow-length PVC gloves and face shield. After use and before eating, drinking and smoking, wash hands, arms and face thoroughly with soap and water. After each day's use, wash gloves and contaminated clothing.

Personal Protection : Follow all precautions and instructions on the label. In all other cases the following recommendations would apply.

Respiratory Protection : Avoid breathing mist. Use approved respiratory Protection equipment when airborne exposure limits are exceeded.

Skin Protection : Must wear suitable protective clothing. Long-sleeve shirt, long pants, shoes plus socks. Any clothing or other absorbent material which has been drenched or heavily contaminated must be discarded.

Hand Protection : Chemical-resistant gloves made of any waterproof material such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, natural rubber, polyvinyl chloride (PVC) or Viton.

Eye Protection : Wear a face shield when handling the concentrate and when applying the product. The use of safety goggles is recommended if a face shield is not used. Safety showers and eyewash should be easily available.

Others: Wash clothing before reusing.

9: PHYSICAL/CHEMICAL PROPERTIES

Appearance : Clear brown Liquid

Density[g/cc]: 1.4 -1. 6

Physical State: Liquid

Colour: Brown

Melting Point [°C]: 154 - 158

10: STABILITY & REACTIVITY

Stability : Stable for under normal circumstances

Conditions to Avoid : Temperatures above 150°C

Hazardous Decomposition Products : Toxic vapours/gasses including sulphur dioxides, nitrogen oxides may release.

Hazardous Reactions : No hazardous reactions when stored and handled according to instructions.

Materials to Avoid : No data available

11: TOXICOLOGICAL INFORMATION

Rat oral LD50 [mg/kg] : > 5000

Rat inhalation LC50 [mg/l/4h] : > 2.0

Skin irritation (rabbit): Slightly irritating, Toxicity Category 4

Dermal (rat) LD50 [mg/kg] : > 2000

Skin Sensitization (Guinea Pig): Non-sensitizer

Eye irritation (rabbit): Minimally irritating

12: ECOLOGICAL INFORMATION

Ecotoxicity

Fish LC50 (24 h)[mg/L] : 440

Daphnia EC50 [mg/l] : > 50

Effect on Honeybees : Harmless

Persistence, Degradability and Mobility in Soil: No data available

13: DISPOSAL CONSIDERATION

Waste-disposal Procedures: Dispose of this product in accordance with local, state, and federal regulations. Do not contaminate drains, streams, rivers or waterways with the chemical or used container.

Contaminated Packaging: Empty remaining contents and the rinse containers thrice before disposal. Do not re-use empty containers unless they are specifically designed to be refilled. Add the rinsing to the contents of the spray tank before recycling or destroying the container in the prescribed manner. Destroy the container by perforating and flattening and dispose of through an approved waste dump site, incineration plant or recycling company. Observe all labelled safeguards until container is destroyed.

14: TRANSPORT INFORMATION

UN No. 2588

Proper Shipping Name: Neem based insecticide.

Land Transport (ADR/RID): Class-3, Packing Group-III

Sea Transport (IMO/IMDG): Class-3.3, Packing group-III, Marine Pollutant-Yes

Air Transport (IATA / ICAO): Class-3 Packing group-III

15: REGULATORY INFORMATION

Hazard Symbol: GHS09, Dangerous for the environment (N)

Risk Phrases: R 23/25, R 51/53

Safety Phrases: S2, S36

16: OTHER INFORMATION

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