

1. Product Identification:

Product Name: Fortune AZA 3% EC

Manufacturer: Fortune Biotech Limited
Telephone: ++91-40-27534867 / 27531888

Address: 6-6-125, Annam gardens, Kavdiguda
City, State, Zip: Secunderbad – 500 380. A.P. INDIA.

Emergency Phone (H.I.S.): 1-800-228-5635 Ext. 169
24 Hour Emergency Phone (CHEMTREC): 1-800-424-9300
U.S. EPA Registration No.: 71038-4
Product Use: Insecticide

2. Health Hazard(s) Identification:

(As defined by OSHA Hazard Communication Standard, 29 CFR

1910.1200)Honey-like, brownish viscous fluid

HEALTH HAZARDS: Warning. Mild eye irritant.
PHYSICAL HAZARDS: May release toxic fumes if burned.

ENVIRONMENTAL HAZARDS: Toxic to aquatic life.



3. Composition/Ingredient Information:

Chemical Names:

Active Ingredient:	CAS Number	Percentage by Weight
dimethyl (2aR,3S,4S,R,S,7aS,8S,10R,10aS,10bR)- 10-(acetyloxy)-3,5-dihydroxy-4-[(1S,2S,6S,8S, 9R,11S)- 2-hydroxy- 11-methyl-5,7,10-trioxatetracyclo[6.3.1.0 ^{2,6} .0 ^{9,11}]dodec- 3-en- 9-yl]- 4-methyl- 8-[[{(2E)- 2-methylbut- 2-enoyl]oxy]octahydro- 1H-furo[3',4':4,4a]naphtho[1,8-bc]furan- 5,10a(8H)-dicarboxylate	11141-17-6	3.00%

Common Name of Active Ingredient:

Azadirachtin 11141-17-6 3.00%

Other Ingredients:

Inert Ingredients N/A 97.00%

*Inert ingredient identity is confidential business information

Molecular Formula of Active Ingredient:

C₃₅H₄₄O₁₆

4. First Aid Measures:

If on Skin or Clothing:

- Take off contaminated clothing.
- Rinse skin immediately with plenty of water for 15-20 minutes.
- Call a poison control center or doctor for treatment advice.

If Inhaled:

- Move person to fresh air.
- If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For emergency information concerning this product, call the National Pesticide Information Center (NPIC) at 1-800-858-7378 seven days a week, 6:30 AM to 4:30 PM Pacific Time. (NPIC Web Site: www.npic.orst.edu)

NOTE TO PHYSICIAN: No specific antidote, treat symptomatically.

5. Fire Fighting Measures:

EXTINGUISHING MEDIA: Alcohol-resistant foam, dry chemical or carbon dioxide. Do not use full water jet.

SPECIFIC HAZARDS ARISING FROM THE CHEMICAL: Thermal decomposition from heat will produce oxides of Carbon.

SPECIAL PROTECTIVE ACTIONS FOR FIRE FIGHTERS: Keep containers cool with water spray. Wear self contained breathing apparatus for fire fighting if necessary.

6. Accidental Release Measures:

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

PERSONAL PRECAUTIONS: Follow protective measures indicated in Section 8: Exposure Control/Personal Protection for both emergency and non emergency personnel. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

ENVIRONMENTAL PRECAUTIONS: Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into environment must be avoided. **METHODS FOR CLEANING UP:** Soak up with inert absorbent material and dispose

of hazardous waste. Keep in suitable, closed containers for disposal.

7. Handling and Storage:

HANDLING AND STORAGE PRECAUTIONS:

HANDLING: Avoid contact with skin and eyes. Avoid breathing vapor or mist. Do not eat drink or smoke. Keep away from food, drinks and feeding stuff. Wash hands after use. Remove contaminated clothing and protective equipment before entering eating areas. Handle with care to prevent unintentional release into environment. Avoid contact with strong acids, bases, oxidizing or reducing agents through handling.

STORAGE: Do not contaminate water, food or feed by storage or disposal. Do not store this product above 100 degrees F or below 20 degrees F for extended periods of time. Keep containers tightly closed and in original containers when not in use. Avoid contact with strong acids, bases, oxidizing or reducing agents through storage.

8. Exposure Control/Personal Protection:

EXPOSURE GUIDELINES: Occupational exposure limit (OEL) and biological limit values (BLV) for Azadirachtin – CAS No.: 11141-17-6 not established, control banding approach not available.

APPROPRIATE ENGINEERING CONTROLS: Use adequate ventilation to avoid buildup of vapors

WORK/HYGIENE PRACTICES: Emergency shower and eyewash facilities should be in close proximity (ANSI Z358.1). Launder contaminated clothing and wash hands and face after use. Discard clothing or other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

The following personal protective equipment should be used in conjunction with exposure control measures

EYE/FACE PROTECTION: Wear chemical safety goggles (ANSI Z87.1).

SKIN PROTECTION: Long-sleeved shirt, long pants, socks and shoes

RESPIRATORY PROTECTION: NIOSH/MSHA approved respirator, following manufacturer's recommendations, should be used as a precautionary measure where airborne contaminants may occur. (OSHA Standard 29 CFR 1910. 134).

HAND PROTECTION: Chemical-resistant (such as barrier laminate, butyl, nitrile, neoprene, polyvinyl chloride, or Viton) gloves.

9. Physical & Chemical Properties:

APPEARANCE: Honey-like, brownish viscous fluid

ODOR: Characteristic neem odor **ODOR**

THRESHOLD: No data available **pH:** 7±0.02

MELTING POINT: NA

BOILING POINT: ND

FLASH POINT: 340°F (171°C)

EVAPORATION RATE: ND

FLAMMABILITY (solid, gas): Not flammable

LOWER FLAMMABILITY LIMIT: ND

UPPER FLAMMABILITY LIMIT: ND

VAPOR PRESSURE: 3.6×10^{-11} (estimated for Azadirachtin A)
VAPOR DENSITY: ND
RELATIVE DENSITY (H₂O = 1): 0.98 g/ml @ 20°C
SOLUBILITY: Emulsifiable in water
PARTITION COEFFICIENT (n-octanol/water): NA
AUTO-IGNITION TEMPERATURE: 734°F (390°C)
DECOMPOSITION TEMPERATURE: ND
VISCOSITY: 281.4 mm²/s @20°C

10. Stability & Reactivity:

REACTIVITY: No data available.
STABILITY: Stable under normal conditions of storage.
HAZARDOUS REACTIONS: if used appropriately no hazardous reactions are expected.
CONDITIONS TO AVOID: High temperatures and strong light sources. Keep away from sources of ignition.
INCOMPATIBLE MATERIALS: Strong acids, strong bases, strong oxidizing or reducing agents.
HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, Carbon dioxide

11. Toxicological Information:

Oral LD₅₀ (rat): >5000 mg/kg bw
Dermal LD₅₀ (rat): >2000 mg/kg bw
Inhalation LC₅₀ (rat): >1.32 mg/L
Skin irritation (rabbit): Not irritating
Skin sensitization (guinea pig): Not Sensitizing
Eye irritation (rabbit): Mild irritation
Mutagenicity (azadirachtin): Not mutagenic
Carcinogenicity (azadirachtin): Not carcinogenic
Reproductive Toxicity (azadirachtin): None
TOST-single exposure (azadirachtin): ND
TOST-repeated exposure (azadirachtin): ND
Aspiration hazard (azadirachtin): ND

ROUTES OF EXPOSURE:

INHALATION: Harmful if inhaled.

SKIN: Harmful if absorbed through the skin

ADVERSE EFFECTS AND SYMPTOMS: No known effects or symptoms.

DELAYED OR IMMEDIATE EFFECTS FROM SHORT OR LONG TERM EXPOSURE: ND

NUMERICAL MEASURES OF TOXICITY: ND

INTERACTIVE EFFECTS: ND

12. Ecological Information:

This pesticide is toxic to fish and aquatic invertebrates.

TOXICITY: (Acute toxicity for azadirachtin)

96 h LC ₅₀	Fish	3.19 ppm
24 h EC ₅₀ (immobilization)	Daphnia	75 ppm
Dietary LC ₅₀	Pigeon	>5000 mg/kg

BEE TOXICITY: Non toxic

PERSISTENCE AND DEGRADABILITY: (for Azadirachtin) Rapid degradation in water and soil; readily biodegradable.

BIOACCUMULATIVE POTENTIAL: Required only for technical

MOBILITY IN SOIL: Required only for technical

13. Disposal Considerations:

PESTICIDE DISPOSAL: Do not contaminate water, food, or feed by disposal. Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

CONTAINER DISPOSAL: Non-refillable container. Do not reuse or refill this container. Triple rinse (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into the application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then offer for recycling, if available, or puncture or dispose of in a sanitary landfill, or by incineration. Do not burn unless allowed by state and local ordinances.

14. Transport Information:

SHIPPING DESCRIPTION: Not regulated by USDOT
(Ground transport)

DOT HAZARD CLASS: N/A
IDENTIFICATION NUMBER: N/A
DOT PACKING GROUP: N/A

15. Regulatory Information:

This chemical is a pesticide product registered with the U.S. Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals.

Following is the hazard information as required on the pesticide label:

CAUTION

Harmful if absorbed through skin or if inhaled. Avoid breathing spray mist.

16. Other Information:

HMIS HAZARD RATING	HEALTH	0
	FLAMMABILITY	0
	PHYSICAL HAZARD	0
	4=Severe 3=Serious 2=Moderate 1=Slight 0=Minimal	

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This Safety Data Sheet (SDS) serves different purposes than and DOES NOT REPLACE OR MODIFY THE EPA APPROVED PRODUCT LABELING (attached to and accompanying the product container). This SDS provides important health, safety, and environmental information for employers, employees, emergency responders and others handling large quantities of the product in activities generally other than product use, while the labeling provides that information specifically for product use in the ordinary course. Use, storage and disposal of pesticide products are regulated by the EPA under the authority of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) through the product labeling, and all necessary and appropriate precautionary, use, storage, and disposal information is set forth on that labeling. It is a violation of federal law to use a pesticide product in any manner not prescribed on the EPA-approved label.

REVISED DATE: October 10, 2022

REFERENCE: Revised for GHS compliance