

1: IDENTIFICATION

Chemical Name	A mixture of avermectins containing Avermectin B1a and Avermectin B1b.		
Synonyms	Abamectin 1.9% EC	Trade Name ABECTIS	
Uses	Insecticide	Molecular Formula C ₄₈ H ₇₂ O ₁₄ + C ₄₇ H ₇₀ O ₁₄	
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)
Abamectin	71751-41-2	>=1-5 %
Oil	8008-74-0	>=80 % - <100%

3: HAZARD IDENTIFICATION

Health Hazard: Harmful or fatal if swallowed; May be harmful if swallowed and enters airway; Allergic skin reactions are possible
 May be harmful if absorbed through the skin; Causes eye and skin irritation;
 Vapours may cause drowsiness and dizziness.

Environmental Hazard: Highly toxic to fish, invertebrates and birds.

4: FIRST AID MEASURES

General: 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 give any liquid to the person. 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.

Note to physician: 1) Abamectin is believed to enhance GABA activity in animals. It is probably wise to avoid drugs that enhance GABA activity (barbiturates, benzodiazepines, valproic acid, etc.) in patients with potentially toxic abamectin exposure.
 2) Contains petroleum distillate - vomiting may cause aspiration pneumonia.
 3) Persons suffering a temporary allergic reaction may respond to treatment with antihistamines or steroid creams and/or systemic steroids.
 4) Early signs of intoxication include dilation of pupils, muscular incoordination, and muscular tremors. Toxicity following accidental ingestion can be minimized by early administration of chemical absorbents such as activated charcoal. If toxicity from exposure has progressed to cause severe vomiting, the extent of resultant fluid and electrolyte imbalance should be gauged. Appropriate supportive parenteral fluid replacement therapy should be given, along with other required supportive measures (such as maintenance of blood pressure levels and proper respiratory functionality) as indicated by clinical signs, symptoms and measurements.

5: FIRE FIGHTING MEASURES

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

Unsuitable Extinguishing Media: Water jet, as it may scatter or spread the fire.

Specific Hazards: Toxic fumes may release on burning.

Hazardous Thermal (de)composition: Toxic gases including oxides of nitrogen and carbon, and smoke may release.

Special Procedures: Evacuate area and fight fire upwind from a safe distance to avoid hazardous vapors and decomposition products. Foam or dry chemical fire extinguishing systems are preferred to prevent environmental damage from excessive water runoff. Minimize use of water to prevent environmental contamination. Dike and collect water used to fight fire to prevent environmental damage due to runoff. Do not discharge extinguishing water into the drain or water bodies.

Protection of Fire Fighters: Do not breathe a fumes. Wear a self contained breathing apparatus. Wear suitable protective gloves and eye/face protection.

6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: Ventilate spillage area. Avoid contact with skin and eyes. Avoid breathing fume. Use personal protective equipment as required. 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: For small spill, surface should be swept up by means of an absorptive material. If spill is too large or if absorbent material is not available, try to create a dike to stop material spreading or going into drains or waterways. Sweep up and shovel or collect recoverable product into labelled containers for recycling or salvage, and dispose of in accordance with the instruction provided in section 13. 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: 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.

Specific Conditions: Good local exhaust ventilation.

Storage: Store in dry, cool, well-ventilated area and away from open flames or other sources of ignition. Keep in original container and tightly closed when not in use. Store in locked room and away from children, seeds, fertilizer, foods and animal feeds. Do not expose sealed containers to temperatures above 40 °C

8: EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures: Ensure work areas have ventilation, containment, and procedures sufficient to maintain airborne levels below the TLV. 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: Always use NIOSH/MSHA approved respiratory protection equipment with any N, R, P or HE filter. Use a self-contained breathing apparatus in cases of emergency spills, when exposure levels are unknown, or under any circumstances where air-purifying respirators may not provide adequate protection.

Skin Protection: Wear suitable protective clothing, including boots, gloves, lab coat, apron or cover all, as appropriate to avoid skin contact. 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: Safety goggles, chemical splash goggles or face shield for eyes protection should be used. Safety showers and eyewash should be easily available.

Others: Wash clothing before reusing.

9: PHYSICAL/CHEMICAL PROPERTIES

Appearance: Liquid

pH: 2.6 – 3.6 (10% Aqueous Solution)

Physical State: Liquid

Colour: Yellow to red-brown

Odour: Do not test for odour to avoid breathing vapours.

Freezing Point [°C]: -34

Solubility in Water: 0.007 – 0.01 mg/L at 20 °C.

Viscosity [cps]: 16.1 at 21 °C.

Density [g/cc]: 0.96 at 20 °C.

10: STABILITY & REACTIVITY

Stability: Stable under normal circumstances.

Conditions to Avoid: High temperatures, sparks, open flames or any other sources of ignition.

Hazardous Decomp. Products: May decompose at high temperatures forming toxic gases including oxides of nitrogen and carbon, and smoke

Hazardous Reactions: will not occur.

Material to Avoid: Strong caustic solutions, strong acid solutions and oxidizing agents

11: TOXICOLOGICAL INFORMATION

Rat oral LD50 [mg/kg] : 300

Rat inhalation LC50 [mg/l/4h] : 3.4

Skin irritation (rabbit): Moderately irritant

Dermal (rat) LD50 [mg/kg]: >1800

Skin Sensitization (Guinea Pig): Sensitizer

Eye irritation (rabbit): Moderately irritant

12: ECOLOGICAL INFORMATION

Ecotoxicity

Rainbow trout LC50 (96 h)[mg/L]: 0.0036

Daphnia EC50 (48 h) [mg/L]: 0.77

Green Algae EC50 (9d)[mg/L]; > 100

Bio-accumulation Potential: Low bioaccumulation potential

Persistence, Degradability and Mobility in Soil: Not persistent in soil; Degrades rapidly in the environment by photolysis and is metabolized in the soil; Low mobility

13: DISPOSAL CONSIDERATION

Waste-disposal Procedures: Dispose of dilution mixtures and other residues according to local regulations or according to label. 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. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers unless they are specifically designed to be refilled.

14: TRANSPORT INFORMATION

UN No. 2902

Proper Shipping Name: Pesticide, liquid, toxic, N.O.S. (Abamectin)

Class: 9

Packing group: III

Shipping Classification: TRANSPORTATION OF DANGEROUS GOODS CLASSIFICATION - ROAD/RAIL

Note: Do not ship with food, feed, seed, cosmetics or medical supplies.

15: REGULATORY INFORMATION

Hazard Symbol: GHS09

WHMIS classification for product: Exempt

16: OTHER INFORMATION

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