

Novartis Crop Protection, Inc
Post Office Box 18300
Greensboro, NC 27419

In Case of Emergency, Call

Novartis : 1-800-888-8372
CHEMTREC : 1-800-424-9300

1. CHEMICAL IDENTIFICATION

Product Name: **AVID 0.15 EC MITICIDE/INSECTICIDE** Product No.: Not Available
EPA Signal Word: Warning
Active Ingredient(%): Abamectin (1.9%) CAS No.: Mixture
Chemical Name: A mixture of avermectins containing primarily Avermectin B1a and Avermectin B1b
Chemical Class: Glycoside Insecticide

2. COMPOSITION/INFORMATION ON INGREDIENTS

Material	OSHA PEL	ACGIH TLV	Other	NTP/IARC/OSHA Carcinogen
Solvent	Not Established	Not Established	Not Established	No
	Not Established	Not Established	Not Established	No
	Not Established	Not Established	5 mg/m3 (Respirable)*	No
Butylated Hydroxytoluene (BHT)	Not Established	10 mg/m3	10 mg/m3**	IARC, 3
Emulsifier	Not Established	Not Established	Not Established	No
Abamectin (1.9%)	Not Established	Not Established	0.04 mg/m3*	No

* recommended by manufacturer

** recommended by NIOSH

3. HAZARDS IDENTIFICATIONNotes to Physician

There is no specific antidote if this product is ingested.

Treat symptomatically.

Symptoms of Acute Exposure

Exposure results in moderate irritation to the eyes. A skin sensitization (allergic) reaction may occur in some individuals.

Hazardous Decomposition Products

None Known

Physical Properties

Appearance: Straw to Rust Colored Liquid

Odor: Not Available

Unusual Fire, Explosion and Reactivity Hazards

Thermal decomposition products may include, but are not limited to, Carbon Monoxide and Carbon Dioxide. This product is a NFPA Class IIIA Combustible Liquid.

4. FIRST AID MEASURES

If poisoning is suspected, immediately contact a physician, the nearest hospital, or the nearest Poison Control Center. Tell the person contacted the complete product name, and the type and amount of exposure. Describe any symptoms and follow the advice given.

Ingestion: DO NOT INDUCE VOMITING. If victim is fully conscious, give a large quantity of water to drink and get medical attention. Never give anything by mouth to an unconscious person.

Eye Contact: Immediately rinse eyes with a large amount of running water. Hold eye lids apart to rinse the entire surface of the eyes and lids. Do not apply any medicating agents except on the advice of a physician.

Skin Contact: Wash with plenty of soap and water, including hair and under fingernails. Do not apply any medicating agents except on the advice of a physician. Remove contaminated clothing and decontaminate prior to use.

Inhalation: Move victim from contaminated area to fresh air. Apply artificial respiration if necessary.

Notes to Physician

There is no specific antidote if this product is ingested.

Treat symptomatically.

Medical Condition Likely to be Aggravated by Exposure

Individuals with allergy history or pre-existing dermatitis should use extra care in handling this product.

5. FIRE FIGHTING MEASURES

Fire and Explosion

Flash Point (Test Method): 161 °F
Flammable Limits (% in Air): Lower: %; Upper: % Not Available
Autoignition Temperature: Not Available
Flammability: Not Applicable

Unusual Fire, Explosion and Reactivity Hazards

Thermal decomposition products may include, but are not limited to, Carbon Monoxide and Carbon Dioxide. This product is a NFPA Class IIIA Combustible Liquid.

In Case of Fire

Use dry chemical, foam, or CO2 extinguishing media. Wear full protective clothing and self-contained breathing apparatus. Evacuate nonessential personnel from the area to prevent human exposure to fire, smoke, fumes or products of combustion. Prevent use of contaminated buildings, area, and equipment until decontaminated.

6. ACCIDENTAL RELEASE MEASURES

In Case of Spill or Leak

Wear chemical goggles or a full-face shield, rubber gloves, rubber boots, long-sleeved shirt, long pants, head covering, and a NIOSH-approved chemical cartridge respirator with organic vapor cartridges and pesticide pre-cartridges or a self-contained breathing apparatus (SCBA). For small spills, cover with an absorbent material such as pet litter. Sweep up, and place in an approved chemical container. Wash the spill area with water containing a strong detergent, absorb with pet litter or other absorbent material, sweep up and place in a chemical container. Seal the container and handle in an approved manner. Flush the area with water to remove any residue. Do not allow wash water to contaminate water supplies.

7. HANDLING AND STORAGE

Store the material in a well-ventilated, secure area out of the reach of children and domestic animals. Do not store food, beverages or tobacco products in the storage area. Prevent eating, drinking, tobacco usage, and cosmetic application in areas where there is a potential for exposure to the material. Always wash thoroughly after handling.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

RECOMMENDATIONS FOR MANUFACTURING, COMMERCIAL BLENDING, AND PACKAGING WORKERS.

Ingestion: Prevent eating, drinking, tobacco usage and cosmetic application in areas where there is a potential for exposure to the material. Always wash thoroughly after handling.

Eye Contact: To avoid eye contact, wear chemical goggles or a full-face shield.
Skin Contact: To avoid skin contact, wear rubber gloves, rubber boots, long-sleeved shirt, long pants and a head covering.
Inhalation: To avoid breathing mist or vapors, wear a NIOSH-approved chemical cartridge respirator with organic vapor cartridges and pesticide pre-cartridges or a supplied-air respirator.

Applicators/Handlers: Please refer to the product label for personal protective clothing/equipment.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Straw to Rust Colored Liquid
Odor: Not Available
Melting Point: Not Applicable
Boiling Point: Not Available
Specific Gravity/Density: 0.96
pH: 2.6-3.6

Solubility in H₂O

Abamectin : Not Available

Vapor Pressure

Abamectin : Not Applicable

10. STABILITY AND REACTIVITY

Reactivity

Stability: Stable
Hazardous Polymerization: Will Not Occur
Conditions to Avoid: None Known

Hazardous Decomposition Products

None Known

11. TOXICOLOGICAL INFORMATION

Acute Toxicity/Irritation Studies

Ingestion: moderately toxic
Oral LD50 (Rat) : 300 mg/kg body weight
Dermal: slightly toxic
Dermal LD50 (Rabbit) : > 1,800 mg/kg body weight
Inhalation: slightly toxic
Inhalation LC50 (Rat) : 3.5 mg/l air - 4 hours
Eye Contact: moderately irritating (Rabbit)
Skin Contact: Not Available
Skin Sensitization: sensitizing (Guinea Pig)

Mutagenic Potential

Abamectin: None Observed (Ames Test and Micronucleus Test)

Reproductive Hazard Potential

Abamectin: Reproductive toxin in animal studies at doses acutely toxic to the maternal animal.

Chronic/Subchronic Toxicity Studies

Abamectin: Central Nervous System effects in animals.

Carcinogenic Potential

Abamectin: None Observed

Other Toxicity Informatio

Not Available

Toxicity of Other Components

Butylated Hydroxytoluene (BHT)

Listed as an IARC (Group 3) carcinogen not classifiable as human (No Data Available) with limited animal evidence. Exposure may result in irritation to eyes, skin and respiratory tract. Ingestion may cause diarrhea, respiratory depression, tremors, and chronic pulmonary edema or congestion and hemorrhage.

Emulsifier

Exposure may result in irritation to eyes, skin or respiratory tract. Ingestion can cause nausea, vomiting and diarrhea.

Solvent

Exposure can cause eye irritation. Prolonged or repeated contact can defat the skin and lead to irritation and /or dermatitis.

Solvent

Overexposure will result in severe irritation of the eyes, possibly causing eye damage and moderate irritation to the skin.

Solvent

Exposure may cause eye, skin or respiratory tract irritation. Pulmonary aspiration can cause lung damage.

Target Organs

Active Ingredients

Abamectin : Skin, eyes and Central Nervous System

Inert Ingredients

Butylated Hydroxytoluene (BHT) : Eyes, Skin or Respiratory Tract

Emulsifier : Eyes, Skin, and Respiratory Tract

Solvent : Skin and Eyes

Solvent : Eyes

Solvent : Eyes, Skin and Respiratory Tract

12. ECOLOGICAL INFORMATION

Summary of Effects

Abamectin:

Highly toxic to aquatic organisms. Not bioconcentrateable in fish.

Eco-Acute Toxicity

Abamectin: Rainbow Trout 96-hour LC50 3.6 ppb
Bluegill Sunfish 96-hour LC50 9.6 ppb
Daphnia magna 48-hour LC50 0.34 ppb
Bobwhite 8-day Dietary LC50 3,102 ppm
Mysid Shrimp 48 HR LC50 0.022 ppb
Mallard 5-day Dietary LC50 383 ppm

Eco-Chronic Toxicity

Abamectin: Not Available

Environmental Fate

Abamectin:

Photodegrades rapidly in the environment and is metabolized in the soil. Water solubility is limited and material binds to soil tightly and is not taken up from soil to plants. Rapid degradation in the environment with lack of acculation and persistence.

13. DISPOSAL CONSIDERATION

Disposal

Do not reuse product containers. Dispose of product containers, waste containers, and residues according to local, state, and federal health and environmental regulations.

Characteristic Waste Not Applicable

Listed Waste: Not Applicable

14. TRANSPORT INFORMATION

DOT Classification:

Pesticides, Liquid, Toxic, N.O.S., (Abamectin Solution), 6.1, UN2902, PGIII

B/L Freight Classification

Insecticides or Fungicides; Agricultural, N.O.S.

International Transportation

Pesticides, Liquid, Toxic, N.O.S., (Abamectin Solution), Class 6.1, UN2902, PGIII

15. REGULATORY INFORMATION

SARA Title III Classification

Section 311/312: Acute Health Hazard
Chronic Health Hazard
Fire Hazard

Section 313 chemical(s): Abamectin (1.9%) (CAS No. Mixture)

Proposition 65

Not Applicable

CERCLA Reportable Quantity (RQ)

None

RCRA Classification

Not Applicable

TSCA Status

Exempt from TSCA

16. OTHER INFORMATION

NFPA Hazard Ratings

Health: 2
Flammability: 2
Reactivity: 0

0	Least
1	Slight
2	Moderate
3	High
4	Severe

Questions concerning the safe handling of the product should be referred to:

Industrial Health

1-800-334-9481

Issued Date: 4/15/91

Revised Date: 8/5/98

Supersedes: 5/5/98

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein.

RSVP# : NCP-955-896A-00129F