

## CUTTER 112EC™

### MATERIAL SAFETY DATA SHEET

---

#### SECTION 1 Chemical product and Company identification

Product Name: Cutter 112 EC™ (Acetamiprid + Emamectin benzoate)

Chemical name:

*Acetamiprid:* (E)-N<sup>1</sup>-[(6-chloro-3-pyridyl)methyl]-N<sup>2</sup>-cyano-N<sup>1</sup>-methylacetamidine

*Emamectin benzoate:* (4''R)-5-O-demethyl-4''-deoxy-4''-(methylamino)avermectin A1a+ (4''R)-5-O-demethyl-25-de(1-methylpropyl)-4''-deoxy-4''-(methylamino)-25- (1-methylethyl)avermectin A1a (9:1)-(6 chloro benzoxazol-2-yloxy) phenoxy]propionic acid

Formula:

*Acetamiprid:* C<sub>10</sub>H<sub>11</sub>ClN<sub>4</sub>

*Emamectin benzoate:* C<sub>56</sub>H<sub>81</sub>NO<sub>15</sub> (B1a); C<sub>55</sub>H<sub>79</sub>NO<sub>15</sub> (B1b)c

Product Use: Commercial Herbicide

Supplier: SINERIA HOLLAND BV

Randwycksingel 20-A015

6229 EE Maastricht The Netherlands

www.sineria.com

---

#### SECTION 2 Composition/Information on Ingredients

<u>Product Name</u>	<u>% (w/v)</u>	<u>CAS RN</u>
Acetamiprid	6,4%	135410-20-7
Emamectin benzoate	4,8%	119791-41-2

---

#### SECTION 3 Hazards Identification

Ingestion: Harmful if swallowed.

Skin Contact: Harmful if absorbed through skin. Avoid contact with skin or clothing.

Inhalation: Harmful if inhaled. Avoid breathing dust or spray mist.

SINERIA HOLLAND BV  
Randwycksingel 20-A015  
6229 EE Maastricht The Netherlands  
www.sineria.com



Chronic Effects of Overexposure: This product does not contain any ingredients designated by IARC, NTP, ACGIH or OSHA as probable or suspected human carcinogens. Other Toxic Effects: Inhalation of product may aggravate existing chronic respiratory problems such as asthma, emphysema or bronchitis. Skin contact may aggravate existing skin disease.

---

#### **SECTION 4 First Aid Measures**

General advice: If you feel unwell, seek medical advice (show the label where possible).

Ingestion: Provided that the patient is conscious, wash out mouth with water. Immediately contact physician or Poison Control Center. Do not induce vomiting. Vomiting should only be induced under the direction of a physician or a poison control center. If spontaneous vomiting occurs, have victim lean forward with head down to avoid breathing in of vomitus, rinse mouth and administer water. Immediately transport victim to an emergency facility.

Eye contact: Immediately flush eyes with running water for a minimum of 20 minutes. Hold eyelids open during flushing. If irritation persists, repeat flushing. Obtain medical attention immediately.

Inhalation: Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is labored, give oxygen. Obtain immediate medical attention.

Skin contact: Flush skin with running water for a minimum of 20 minutes. Start flushing while removing contaminated clothing. If irritation persists, repeat flushing. Obtain medical attention immediately.

Medical advice: If ingestion has occurred less than 2 hours earlier, carry out careful gastric lavage; use endotracheal cuff if available, to prevent aspiration. Observe patient for respiratory difficulty from aspiration pneumonitis. Give artificial resuscitation and appropriate chemotherapy if respiration is depressed. Symptomatic treatment and supportive therapy as indicated.

---

#### **SECTION 5 Fire Fighting Measures**

Extinguishing media: For small fires use foam, carbon dioxide or dry powder extinguisher. For large fires, use foam or water-fog; avoid the use of water jet. Contain run-off water with, for example, temporary earth barriers.

Flash Point (°C) : >45°C

Fire and Explosion hazards: Flammable

*Keep fire exposed containers cool by spraying with water.*

Unusual fire and explosion hazards: The vapor is heavier than air and may travel a considerable distance to a source of ignition.

Protective equipment: A self-contained breathing apparatus and suitable protective clothing should be worn in fire conditions.

SINERIA HOLLAND BV  
Randwycksingel 20-A015  
6229 EE Maastricht The Netherlands  
[www.sineria.com](http://www.sineria.com)



---

## SECTION 6 Accidental release measures

General and disposal: Use proper protective equipment to minimize personal exposure. Take all necessary action to prevent and to remedy the effects of the spill. Ensure that the disposal is in compliance with regulations.

If spilled on the ground, the affected area should be scraped clean and placed in an appropriate container for disposal.

### Land spill or leaks:

*Small spill:* Absorb with an inert absorbent material such as granular clay, saw dust or pet litter. Sweep up carefully while avoiding the formulation of a dust cloud. Place in an approved chemical waste container for disposal. Rinse spill area with small amount of soapy water. Contain and absorb the rinsate with inert absorbents and place into the same disposal container. Area can be washed with water to remove the last trace residue. Do not allow water to contaminate water supplies or sewers.

*Large spill:* Eliminate all ignition sources. Stop leak if you can do so without coming into contact with spilled material. All equipment used to clean up spill should be grounded. Prevent entry into waterways, sewers, basements or confined areas. Inform appropriate authorities immediately if contamination occurs.

---

## SECTION 7 Handling and storage

Handling: Avoid breathing vapors or spray mist. Avoid contact with eyes or clothing. Do not use near heat or open fire. Do not expose sealed containers to temperatures above 40°C.

Users Should: Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove personal protective equipment immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

Storage: Store in a cool and dry place out of reach of children. Keep container tightly closed. Do not store or consume food, drink or tobacco in areas where they may become contaminated with this material.

---

## SECTION 8 Exposure controls/Personal protection

Control airborne concentrations below the exposure guidelines. Local exhaust ventilation may be necessary.

Eye and face protections: Safety glasses, splash goggles or face-shield.

Skin protections: Always wear long-sleeved shirt and long pants, waterproof or neoprene gloves and chemically resistant footwear. Wash contaminated skin promptly. Launder contaminated clothing and clean protective equipment before reuse. Wash hand thoroughly after handling.

Respiratory protection: Ensure adequate ventilation. Use MSHA-NIOSH approved respirator for pesticides. Where potential exposure under the use conditions necessitates higher level of protection, use a full-face positive pressure air supplied respirator.

SINERIA HOLLAND BV  
Randwycksingel 20-A015  
6229 EE Maastricht The Netherlands  
[www.sineria.com](http://www.sineria.com)

---

## SECTION 9 Physical & Chemical properties

Appearance: Light yellow transparent liquid

Acidity (as H<sub>2</sub>SO<sub>4</sub>): 0.5%max

Water content: 0.5%max

pH: 6-8

---

## SECTION 10 Stability & Reactivity

Stability: Stable under normal condition

Hazardous Polymerization: Will not occur

Incompatibilities: Strong bases, strong acids and strong oxidizing agents.

Conditions to avoid: Keep away from heat. Keep away from sources of ignition - No Smoking close to the product is allowed.

Hazardous decomposition products: Thermal decomposition products are toxic and may include hydrocarbons, ammonia, organic and acid halides, carbon oxides, nitrogen and sulphur.

---

## SECTION 11 Toxicological Information

### **Toxicity Data Acetamiprid**

Oral (acute): LD<sub>50</sub> for male rats 217, female rats 146, male mice 198, female mice 184 mg/kg

Dermal (acute): LD<sub>50</sub> for male and female rats >2,000 mg/kg.

Inhalation (acute): LC<sub>50</sub> (4 h) for male and female rats >0.29 mg/l

Skin Irritation: Non-irritating (rabbits)

Eye Irritation: Non-irritating (rabbits)

NOEL: (2 years) for rats 7.1 mg/kg b.w.; (18 months) for mice 20.3 mg/kg b.w.; (1 year) for dogs 20 mg/kg b.w.

Other: Negative in the Ames test

### **Emamectin benzoate**

Oral (acute): LD<sub>50</sub> (rat) = 300mg/kg

Dermal (acute): LD<sub>50</sub> (rat) >2000mg/kg

Inhalation (acute): LC<sub>50</sub> (rat) = 1.1mg/L air



Skin Irritation: Slightly irritating

Eye Irritation: Moderately irritating

Skin Sensitization: Sensitizing

Chronic Toxicity Studies: In a 1-year study with dogs given oral doses of 0, 0.25, 0.5, or 1 mg/kg/day, there were no changes in tissue at any dose level. However, some dogs at the 0.5 and 1 mg/kg/day levels had pupillary dilation, weight loss, lethargy, tremors and recumbence. The NOEL for this study was 0.25 mg/kg/day. Similar results were seen in a 2-year study with rats fed 0, 0.75, 1.5, or 2 mg/kg/day. No changes in the nervous or muscular systems were observed, but rats in all the dosage levels exhibited body weight gains significantly higher than the controls. A few individuals in the high dose group exhibited tremors.

Reproductive effects: Rats given 0.40 mg/kg/day of Emamectin benzoate had increased stillbirths, decreased pup viability, decreased lactation, and decreased pup weights. These data suggest that Emamectin benzoate may have the potential to cause reproductive effects at high enough doses.

Teratogenic effects: Emamectin benzoate produced cleft palate in the offspring of treated mice and rabbits, but only at doses that were also toxic to the mothers. There were no birth defects in the offspring of rats given up to 1 mg/kg/day. Emamectin benzoate is unlikely to cause teratogenic effects except at doses toxic to the mother.

Mutagenic effects: Emamectin benzoate does not appear to be mutagenic. Mutagenicity tests in live rats and mice were negative. Emamectin benzoate was shown to be non-mutagenic in the Ames test.

Carcinogenic effects: Emamectin benzoate is not carcinogenic in rats or mice. The rats were fed dietary doses of up to 2 mg/kg/day for 24 months, and the mice were up to 8 mg/kg/day for 22 months. These represent the maximum tolerated doses.

Organ toxicity: Animal studies indicate that Emamectin benzoate may affect the nervous system.

---

## SECTION 12 Ecological Information

### Toxic data

#### ***Acetamiprid***

Birds: LD50 for bobwhite quail 180mg/kg. LC50 for bobwhite quail 5000ppm.

Fish: LC50 (24-96 h) for carp > 100mg/L.

Daphnia: LC50 (3-6 h) 1000mg/L

#### ***Emamectin benzoate***

Emamectin benzoate is toxic to aquatic organisms and wildlife. It does not bio-concentrate in fish. It is toxic to bees. Emamectin benzoate photo-degrades rapidly in the environment and is metabolized in the soil. Its

SINERIA HOLLAND BV  
Randwycksingel 20-A015  
6229 EE Maastricht The Netherlands  
www.sineria.com



water solubility is limited; it binds to soil tightly and is not taken up from soil to plants. Emamectin benzoate undergoes rapid degradation in the environment with lack of accumulation and persistence.

NOTE: Keep this product out of any bodies of water.

---

### **SECTION 13 Disposal Considerations**

General Disposal Guidance: Do not contaminate water, food or feed by storage or disposal. Contamination with this product will render water, food or feed unfit for human or animal consumption. Wastes resulting from use of this product may be disposed of on site or at an approved waste disposal facility.

Chemical additions, processing or otherwise altering this material may make the waste management information presented in this MSDS incomplete, inaccurate or otherwise inappropriate. Please be advised that state and local requirements for waste disposal may be more restrictive or otherwise different from federal laws and regulations. Consult state and local regulations regarding the proper disposal of this material.

Container Disposal: Do not reuse containers. Rinse the emptied container thoroughly and add the rinsing's to the mixture in the spray tank. Dispose of product containers, waste containers and residues in accordance with municipal and provincial regulations.

---

### **SECTION 14 Transport Information**

UN No.: 2902

Class: 6.1

Packing Group: III

Proper shipping name: Pesticide, Liquid, Toxic, N.O.S. (acetamiprid + emamectin benzoate)

---

### **SECTION 15 Regulatory Information**

Acetamiprid: European Commission Regulation 978/2011

Emamectin benzoate: European Commission Regulation 813/2011

---

### **SECTION 16 Other Information**

The information contained in the Material Safety Data Sheet is correct to the best of our knowledge at the date of issue. It is the intended as a guide for the safe use, handling, disposal, storage and transportation and is not intended as a warranty or as a specification. The information relates only to the product specified and may not be suitable for with other materials or in processes other than those specifically described herein. Sineria makes no warranty, express or implied, regarding the accuracy of the data or the results obtained from the use of this product. Nothing herein may be construed as recommending any practice or any product in violation of any law or regulations. The user is solely responsible for determining the suitability of any material or product for a specific purpose and for adopting any appropriate safety precautions. We disclaim all liability for injury or damage stemming from any improper use of the material or product described herein.

SINERIA HOLLAND BV  
Randwycksingel 20-A015  
6229 EE Maastricht The Netherlands  
www.sineria.com