

DIVANEM

Date: 12/22/2016

Replaces: 10/31/2016

1. PRODUCT IDENTIFICATION

Product identifier on label: **DIVANEM**
 Product No.: A15368K
 Use: Nematicide
 Manufacturer: Syngenta Crop Protection, LLC
 Post Office Box 18300
 Greensboro NC 27419
 Manufacturer Phone: 1-800-334-9481

Emergency Phone: 1-800-888-8372

2. HAZARDS IDENTIFICATION

Classifications: Oral: Category 4
 Reproductive Toxicity: Category 2
 Specific Target Organ Toxicity: Repeated Category 2
 Inhalation: Category 2

Signal Word (OSHA): Danger

Hazard Statements: Harmful if swallowed
 Fatal if inhaled
 Suspected of damaging fertility or the unborn child
 May cause damage to organs through prolonged or repeated exposure

Hazard Symbols:



Precautionary Statements: If swallowed: Call a poison center, doctor or Syngenta if you feel unwell. Rinse mouth.
 Get medical advice if you feel unwell.
 Do not breathe mist, vapors, spray.
 Wash hands and face thoroughly after handling.
 Do not eat, drink or smoke when using this product.
 Use only outdoors or in a well-ventilated area.
 Wear protective gloves, protective clothing, eye protection.
 In case of inadequate ventilation wear respiratory protection. See Section 8 Exposure Control/Personal Protection.
 If inhaled: Remove person to fresh air and keep comfortable for breathing.
 Immediately call a poison center, doctor or Syngenta.
 Specific treatment is urgent (see Section 4 First Aid Measures).

DIVANEM

Date: 12/22/2016
Replaces: 10/31/2016

Store locked up.
Dispose of contents and container in accordance with local regulations.
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
If exposed or concerned: Get medical advice/attention.

Other Hazard Statements: None

3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name | Common Name | CAS Number | Concentration |
|-------------------|-------------------|--------------|---------------|
| 1,2-Propanediol | Propylene Glycol | 57-55-6 | <10.0% |
| Other ingredients | Other ingredients | Trade Secret | >82.0% |
| Abamectin | Abamectin | 71751-41-2 | 8.0% |

Ingredients not precisely identified are proprietary or non-hazardous. Values are not product specifications.

4. FIRST AID MEASURES

Have the product container, label or Safety Data Sheet with you when calling Syngenta (800-888-8372), a poison control center or doctor, or going for treatment.

Ingestion: If swallowed: Call Syngenta (800-888-8372), a poison control center or doctor immediately for treatment advice. Do not give any liquid to the person. Do not induce vomiting unless told to do so after calling 800-888-8372 or by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

Eye Contact: If in eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after 5 minutes, then continue rinsing eye. Call Syngenta (800-888-8372), a poison control center or doctor for treatment advice.

Skin Contact: If on skin or clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call Syngenta (800-888-8372), a poison control center or doctor for treatment advice.

Inhalation: 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 Syngenta (800-888-8372), a poison control center or doctor for further treatment advice.

Most important symptoms/effects:

Allergic skin reaction

Indication of immediate medical attention and special treatment needed:

There is no specific antidote if this product is ingested.

Treat symptomatically.

5. FIRE FIGHTING MEASURES

Suitable (and unsuitable) extinguishing media:

Use dry chemical, foam or CO2 extinguishing media. If water is used to fight fire, dike and collect runoff.

Specific Hazards:

None known.

DIVANEM

Date: 12/22/2016

Replaces: 10/31/2016

Special protective equipment and precautions for firefighters:

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.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures:

Follow exposure controls/personal protection outlined in Section 8.

Methods and materials for containment and cleaning up:

Control the spill at its source. Contain the spill to prevent from spreading or contaminating soil or from entering sewage and drainage systems or any body of water. Clean up spills immediately, observing precautions outlined in Section 8. Cover entire spill with absorbing material and place into compatible disposal container. Scrub area with hard water detergent (e.g. commercial products such as Tide, Joy, Spic and Span). Pick up wash liquid with additional absorbent and place into compatible disposal container. Once all material is cleaned up and placed in a disposal container, seal container and arrange for disposition.

7. HANDLING AND STORAGE

Precautions for safe handling:

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

Conditions for safe storage, including any incompatibilities:

Store locked up.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

THE FOLLOWING RECOMMENDATIONS FOR EXPOSURE CONTROLS/PERSONAL PROTECTION ARE INTENDED FOR THE MANUFACTURE, FORMULATION AND PACKAGING OF THIS PRODUCT.

FOR COMMERCIAL APPLICATIONS AND/OR ON-FARM APPLICATIONS CONSULT THE PRODUCT LABEL.

Occupational Exposure Limits:

| Chemical Name | OSHA PEL | ACGIH TLV | Other | Source |
|-------------------|-----------------|-----------------|----------------------------|----------------|
| Propylene Glycol | Not Established | Not Established | 10 mg/m ³ TWA | AIHA |
| Other ingredients | Not Established | Not Established | Not Established | Not Applicable |
| Abamectin | Not Established | Not Established | 0.02 mg/m ³ TWA | Syngenta |

Appropriate engineering controls:

Use effective engineering controls to comply with occupational exposure limits (if applicable).

Individual protection measures:

Ingestion:

Prevent eating, drinking, tobacco usage and cosmetic application in areas where there is a potential for exposure to the material. Wash thoroughly with soap and water after handling.

Eye Contact:

Where eye contact is likely, use splash-proof chemical goggles. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

DIVANEM

Date: 12/22/2016

Replaces: 10/31/2016

Skin Contact:

Where contact is likely, wear chemical-resistant (such as nitrile or butyl) gloves, coveralls, socks and chemical-resistant footwear.

Inhalation:

A combination particulate/organic vapor respirator should be used until effective engineering controls are installed to comply with occupational exposure limits, or until exposure limits are established. Use a NIOSH approved respirator with an organic vapor (OV) cartridge or canister with any 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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: White to gray opaque liquid

Odor: Paint like

Odor Threshold: Not Available

pH: 5.0-7.0 (neat @ 68 - 77°F (20 - 25°C))

Melting point/freezing point: Not Available

Initial boiling point and boiling range: Not Applicable

Flash Point (Test Method): >212°F (Pensky-Martens CC)

Flammable Limits (% in Air): Not Available

Flammability: Not Available

Vapor Pressure: Abamectin 7.5 x 10⁻⁸ mmHg @ 77°F (25°C)

Vapor Density: Not Available

Relative Density: 1.03-1.07 g/ml @ 68°F (20°C)

Solubility (ies): Abamectin 0.007 - 0.01 mg/l @ 68°F (20°C)

Partition coefficient: n-octanol/water: Not Available

Autoignition Temperature: 851°F

Decomposition Temperature: Not Available

Viscosity: Not Available

Other: None

10. STABILITY AND REACTIVITY

Reactivity: Not reactive.

Chemical stability: Stable under normal use and storage conditions.

Possibility of hazardous reactions: Will not occur.

Conditions to Avoid: None known.

Incompatible materials: None known.

Hazardous Decomposition Products: None known.

DIVANEM

Date: 12/22/2016

Replaces: 10/31/2016

11. TOXICOLOGICAL INFORMATION

Health effects information

Likely routes of exposure: Dermal, Inhalation

Symptoms of exposure: Not Applicable

Delayed, immediate and chronic effects of exposure: Developmental toxicity

Numerical measures of toxicity (acute toxicity/irritation studies (finished product))

| | | |
|---------------------|--|--|
| Ingestion: | Oral (LD50 Female Rat) : | 310 mg/kg body weight (based on a substantially similar formulation) |
| Dermal: | Dermal (LD50 Rat) : | > 2,000 mg/kg body weight (based on a substantially similar formulation) |
| Inhalation: | Inhalation (LC50 Rat) : | 0.054-0.53 mg/l - 4 hours (calculated based on similar formulations) |
| Eye Contact: | Minimally Irritating (Rabbit) (based on a substantially similar formulation) | |
| Skin Contact: | Slightly Irritating (Rabbit) (based on a substantially similar formulation) | |
| Skin Sensitization: | Not a Sensitizer (Guinea Pig) (based on a substantially similar formulation) | |

Reproductive/Developmental Effects

Abamectin: Experiments have shown reproductive toxicity effects on laboratory animals.

Chronic/Subchronic Toxicity Studies

Abamectin: Central nervous system effects in chronic/subchronic animal tests.

Carcinogenicity

Abamectin: Did not show carcinogenic effects in animal experiments.

| Chemical Name | NTP/IARC/OSHA Carcinogen |
|-------------------|--------------------------|
| 1,2-Propanediol | No |
| Other ingredients | No |
| Abamectin | No |

Other Toxicity Information

Not Available

Toxicity of Other Components

Other ingredients
Not Established

Propylene Glycol

Reported to cause central nervous system depression (anesthesia, dizziness, confusion), headache and nausea. Also, eye irritation may occur with lacrimation but no residual discomfort or injury. Prolonged contact to skin may cause mild to moderate irritation and possible allergic reactions. Chronic dietary exposure caused kidney and liver injury in experimental animals.

Target Organs

DIVANEM

Date: 12/22/2016

Replaces: 10/31/2016

Active Ingredients

Abamectin: Skin, eye, CNS

Inert Ingredients

Other ingredients: Not Established

Propylene Glycol: CNS, kidney, liver

12. ECOLOGICAL INFORMATION

Eco-Acute Toxicity

Abamectin:

Fish (Rainbow Trout) 96-hour LC50 3.6 ppb

Bird (Bobwhite Quail) LD50 Oral > 2000 mg/kg

Invertebrate (Water Flea) 48-hour EC50 0.34 ppb

Green Algae 9-day EC50 > 100 ppm

Bee (Contact) 48-hour LD50 0.41 ug/bee

Environmental Fate

Abamectin:

The information presented here is for the active ingredient, abamectin.

Low bioaccumulation potential. Not persistent in soil. Stable in water. Low mobility in soil. Mixes in water (after 24 h).

13. DISPOSAL CONSIDERATIONS

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

Ground Transport - NAFTA

Not regulated

Comments

Water Transport - International

Proper Shipping Name: Environmentally Hazardous Substance, Liquid, N.O.S (Abamectin)

Marine Pollutant

Hazard Class: Class 9

Identification Number: UN 3082

Packing Group: PG III

Air Transport

Proper Shipping Name: Environmentally Hazardous Substance, Liquid, N.O.S (Abamectin)

Hazard Class: Class 9

Identification Number: UN 3082

Packing Group: PG III

DIVANEM

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 Replaces: 10/31/2016

15. REGULATORY INFORMATION

Pesticide Registration:

This chemical is a pesticide product registered by the 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:

Warning: May be fatal if swallowed or inhaled. Do not breathe vapor or spray mist. Harmful if absorbed through the skin. Causes moderate eye irritation. Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove and wash contaminated clothing before reuse.

EPA Registration Number(s):
 100-1611

EPCRA SARA Title III Classification:

Section 311/312 Hazard Classes: Acute Health Hazard
 Section 313 Toxic Chemicals: Abamectin 8.0% (CAS No. 71751-41-2)

CERCLA/SARA 304 Reportable Quantity (RQ):

Not Applicable

RCRA Hazardous Waste Classification (40 CFR 261):

Not Applicable

TSCA Status:

TSCA R & D Exempt

16. OTHER INFORMATION

NFPA Hazard Ratings

Health: 4
 Flammability: 1
 Instability: 0

HMIS Hazard Ratings

Health: 3
 Flammability: 1
 Physical Hazard: 0

| | |
|---|----------|
| 0 | Minimal |
| 1 | Slight |
| 2 | Moderate |
| 3 | Serious |
| 4 | Extreme |
| * | Chronic |

Syngenta Hazard Category: D

For non-emergency questions about this product call:

1-800-334-9481

Original Issued Date: 10/19/2016

Revision Date: 12/22/2016

Replaces: 10/31/2016

Section(s) Revised: 2, 16

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.