

2013-6169  
2013-11-29

<b>GROUP</b>	<b>4</b>	<b>INSECTICIDE</b>
<b>GROUP</b>	<b>4</b>	<b>12</b>
		<b>FUNGICIDES</b>

## A14379B Seed Treatment

### FUNGICIDES AND INSECTICIDE

### SUSPENSION

### AGRICULTURAL

A seed treatment product for the control of certain chewing and sucking insects and seed-borne and soil-borne diseases of soybeans.

### GUARANTEE:

Thiamethoxam ..... 22.6 %  
Metalaxyl-M (*R*- and *S*-isomers) ..... 1.70%  
Fludioxonil ..... 1.12%

Contains 1,2-benzisothiazolin-3-one at 0.01% as a preservative.

**READ THE LABEL BEFORE USING  
KEEP OUT OF THE REACH OF CHILDREN AND PREVENT ACCESS BY  
UNAUTHORIZED PERSONNEL**

**CAUTION – EYE AND SKIN IRRITANT**

REGISTRATION NUMBER: **29113**  
PEST CONTROL PRODUCTS ACT

NET CONTENTS: **1 L to 450 L**

**Syngenta Canada Inc.**  
140 Research Lane, Research Park  
Guelph, Ontario N1G 4Z3  
Telephone: 1-877-964-3682

**For use in commercial seed treatment facilities with closed transfer including closed mixing, loading, calibrating, and closed treatment equipment. No open transfer of A14379B Seed Treatment. All seed treated with this product must be conspicuously coloured at the time of treatment.**

LABEL

## NOTICE TO USER

This pest control product is to be used only in accordance with the directions on the label. It is an offence under the *Pest Control Products Act* to use this product in a way that is inconsistent with the directions on the label. The user assumes the risk to persons or property that arises from any such use of this product.

## FIRST AID

**IF POISONING IS SUSPECTED, IMMEDIATELY** contact a physician or a poison control centre. Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

**If swallowed**, call a poison control centre or doctor **IMMEDIATELY** for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give anything by mouth to an unconscious person.

**If in eyes**, hold eye open and rinse slowly and gently with water for 15–20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control centre or doctor for treatment advice.

**If on skin or clothing**, take off contaminated clothing. Rinse skin **IMMEDIATELY** with plenty of water for 15–20 minutes. Call a poison control centre 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 by mouth-to-mouth, if possible. Call a poison control centre or doctor for further treatment advice.

## TOXICOLOGICAL INFORMATION

NOTE TO PHYSICIAN: There is no specific antidote for this product if ingested. If ingested administer medicinal charcoal in a large quantity of water. Treat symptomatically.

## PRECAUTIONS

1. KEEP OUT OF THE REACH OF CHILDREN. HARMFUL TO HUMANS AND DOMESTIC ANIMALS.
2. Harmful if swallowed, inhaled or absorbed through skin. DO NOT get in eyes. Avoid prolonged contact with skin. Avoid inhalation of vapours, spray mist or treated seed dust. Wash hands and face after handling and before eating, using tobacco (including smoking), applying cosmetics, or using the toilet.
3. Avoid contamination of feed and foodstuffs.
4. Do not apply in a way that this product will contact workers or other persons, either directly or through drift. Only handlers (mixers, loaders and applicators) wearing personal protective equipment may be in the area during application.
5. Treat seed in a well-ventilated area. All workers (treater, cleaner, repair, maintenance, bagger, sewer, stacker, forklift operator and others) must wear: coveralls over long sleeve shirt, long pants and chemical-resistant gloves. For good hygiene practice, it is also

recommended to wear a NIOSH/MSHA approved dust mask during all job activities. Wear a suitable dust mask when bagging or sewing bags of treated seed or when transferring seed to a storage bin.

6. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product. DO NOT reuse them. Wear freshly laundered clothes daily. DO NOT wear contaminated shoes. Wash clothing in detergent and hot water before reuse. Store and wash all protective clothing separately from household laundry.

If this pest control product is to be used on a commodity that may be exported to the U.S. and you require information on acceptable residue levels in the U.S., visit CropLife Canada's web site at [www.croplife.ca](http://www.croplife.ca).

## ENVIRONMENTAL HAZARDS

1. This product is toxic to fish and aquatic invertebrates. Do not apply this product directly to freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs, ditches and wetlands), estuaries or marine habitats.
2. Thiamethoxam is toxic to bees. Bees can be exposed to product residues in flowers, leaves, pollen and/or nectar resulting from seed treatment applications. Dust generated during planting of treated seed may be harmful to bees and other pollinators.
3. To help minimize the dust generated during planting, refer to the "Pollinator Protection and Responsible Use of Treated Seed - Best Management Practices" on the Health Canada webpage on pollinator protection at [www.healthcanada.gc.ca/pollinators](http://www.healthcanada.gc.ca/pollinators).
4. When using a seed flow lubricant with this treated seed, only the Fluency Agent by Bayer CropScience is permitted. Carefully follow use directions for this seed flow lubricant.
5. Do not load or clean planting equipment near bee colonies, and avoid places where bees may be foraging, such as flowering crops or weeds.
6. When turning on the planter, avoid engaging the system where emitted dust may contact honey bee colonies.
7. Treated seed is TOXIC To birds and small wild mammals.
8. Spilled or exposed seeds and dust must be incorporated into the soil or cleaned-up from the soil surface.

## USE RESTRICTIONS

1. Treated seed must not be used for food, feed or oil processing.
2. Store away from food and feed.
3. For seed treated with A14379B Seed Treatment, do not graze or feed livestock on treated areas for 45 days after planting.
4. Do not plant any crop other than soybeans and dry beans within 45 days to fields in which treated seeds were planted.
5. All bags containing treated seed for sale or use in Canada must be labelled or tagged as follows: **"This seed has been treated with thiamethoxam insecticide and metalaxyl-M (including R- and S-isomers) and fludioxonil fungicides. Wear a long-sleeved shirt, long pants, and chemical-resistant gloves when handling treated seed. Do not graze or feed livestock on seeded area for 45 days after planting. Do not use for food, feed or oil processing. Store away from food and feed. Do not plant any crop other than soybeans, dry beans, chickpeas, lentils and dry peas (including field peas) within 45**

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## **DECONTAMINATION AND DISPOSAL**

For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean-up of spills.

### **CONTAINER DISPOSAL:**

#### **For recyclable containers:**

Do not reuse this container for any purpose. This is a recyclable container, and is to be disposed of at a container collection site. Contact your local distributor/dealer or municipality for the location of the nearest collection site. Before taking the container to the collection site:

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***IN CASE OF EMERGENCY INVOLVING A MAJOR SPILL, FIRE OR POISONING,  
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CALL 1-800-327-8633 (FASTMED)***

## **GENERAL INFORMATION**



A14379B Seed Treatment is a seed treatment insecticide and fungicide for use on soybeans. A14379B Seed Treatment controls wireworms and other listed chewing and sucking insects through contact and systemic activity of thiamethoxam, a compound belonging to the neonicotinoid class of chemistry. Fludioxonil and metalaxyl-M fungicides present in A14379B Seed Treatment control certain seed- and soil-borne diseases of soybeans. Thorough seed coverage will offer the best protection of the seed from insect damage and disease. In addition, this formulation contains a colouring agent which will colour the treated seed.

**Note:** Treatment of highly mechanically scarred or damaged seed, or seed known to be of low vigour and poor quality, may result in reduced germination and/or reduction of seed and seedling vigour. Treat a small quantity of seed using equipment similar to that planned for treating the total seed lot. Conduct germination tests on a small portion of the seed before committing the total seed lot to a selected seed treatment. Due to seed quality and seed storage conditions beyond the control of Syngenta Canada Inc., no claims are made to guarantee the germination of carry-over treated seed.

**Note:** Experience has shown that strains of fungus resistant to metalaxyl-M may develop. Failure to control the disease will result in crop damage and/or yield losses. Since the occurrence of the resistance cannot be foreseen, Syngenta Canada Inc. accepts no responsibility for any loss of, or damage to, crops resulting from the failure of A14379B Seed Treatment to control the resistant fungus strains. If disease appears in a treated field, consult the government extension specialist immediately.

## **DIRECTIONS FOR USE**

### **FOR USE IN CLOSED APPLICATION SYSTEMS; NO OPEN TRANSFER OF PRODUCT IS PERMITTED.**

As this product is not registered for the control of pests in aquatic systems, DO NOT use to control aquatic pests

DO NOT contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes.

Field Code Changed

### **Mixing Instructions (Slurry Application):**

Ensure product is thoroughly mixed prior to application.

Apply A14379B Seed Treatment utilizing closed system seed treatment equipment which provides uniform seed coverage. Uneven or incomplete seed coverage may not give the desired level of insect and (or) disease control. Thoroughly mix the recommended amount of A14379B Seed Treatment into the required amount of seed treatment fungicide carrier for the slurry treater and dilution rate to be used. Follow the manufacturer's application instructions for the seed treatment equipment being used. Maintain constant agitation of the slurry during the seed treatment process. Allow the seed to dry before bagging or storing into bulk containers. Depending on planting equipment, seed treated with A14379B Seed Treatment, or a combination of A14379B Seed Treatment and seed inoculants, may not flow through planting equipment at the same rate as untreated seed. Recalibrate equipment before planting treated

seed. **Mixing with inoculants may increase drying time while treating extends the processing time.**

**Seed Treatment and Inoculants:**

A14379B Seed Treatment is compatible with Rhizobium based inoculants. Please check with inoculant manufacturers for details prior to use.

Ideal storage temperature is above freezing and below 30 °C. Repeated freeze-thawing of A14379B Seed Treatment will not affect the physical integrity of the product. If the product should freeze, bring the product back to room temperature and ensure the contents are mixed well prior to application.

**This product contains a pigment, which will adequately colour the treated seed. However, users are responsible for ensuring that the treated seed, when dried and ready for bagging, has an unnatural colour. If the pigment contained in the formulation does not colour the seed adequately, additional colourant must be added to the mixture while treating the seed. Follow instructions on the colourant package for mixing. Regulations pertaining to colouration of treated seed enforced under the “Seed Act” must be strictly adhered to when using this product.**

**USE RATES**

For control of the listed chewing and sucking pests, as well as seed-borne and soil-borne diseases of soybeans, apply 195 mL of A14379B Seed Treatment per 100 kg of seed to the crops listed.

Crop	Diseases Controlled	Insects Controlled
Soybeans <sup>1</sup>	Control of seed rot/pre-emergence damping-off, and post-emergence damping-off caused by <i>Fusarium</i> spp., <i>Pythium</i> spp. and <i>Rhizoctonia</i> spp.  Control of seedling blight caused by <i>Fusarium</i> spp., and <i>Pythium</i> spp.  Control of seedling root rot caused by <i>Fusarium</i> spp.  Seed Rot and Seedling Blight caused by seed-borne <i>Phomopsis</i> spp.  Early season root rot caused by <i>Phytophthora megasperma</i> var. <i>sojae</i> . <sup>2</sup>	Wireworm Seed Corn Maggot European Chafer Bean Leaf Beetle Soybean Aphid*

\* Early season protection

<sup>1</sup> Based on 6,600 soybean seeds per kg, A14379B Seed Treatment delivers 85 µg of active ingredient (76 µg of thiamethoxam, 5.7 µg of metalaxyl-M and 3.8 µg of fludioxonil) per seed.

<sup>2</sup> A14379B Seed Treatment provides early season protection against *Phytophthora* root rot for tolerant varieties of soybeans. If target fields have a history of high *Phytophthora* pressure, or susceptible varieties are to be treated, then tank-mix 195 mL of A14379B Seed Treatment with 31 mL of APRON XL LS Fungicide per 100 kg of seed

## **Resistance Management Recommendations**

For resistance management, please note that A14379B Seed Treatment contains Group 4 and Group 12 fungicides and a Group 4 insecticide. Any fungal and (or) insect population may contain individuals naturally resistant to A 14379B Seed Treatment and other Group 4 and Group 12 fungicides and Group 4 insecticides. A gradual or total loss of pest control may occur over time if these fungicides/insecticides are used repeatedly in the same fields. Other resistance mechanisms that are not linked to site of action but specific for individual chemicals, such as enhanced metabolism, may also exist. Appropriate resistance management strategies should be followed.

### **To delay insecticide and fungicide resistance:**

Where possible, rotate the use of A14379B Seed Treatment or other Group 4 and Group 12 fungicides and Group 4 insecticides with different groups that control the same pathogens/pests.

Fungicide and insecticide use should be based on an Integrated Pest Management (IPM) program that includes scouting, historical information related to pesticide use and crop rotation and considers cultural, biological and other chemical control practices.

Monitor treated fungal and insecticide populations for resistance development. If disease continues to progress after treatment with this product, do not increase the use rate. Discontinue use of this product, and switch to another fungicide and insecticide product with a different target site of action, if available.

Contact your local extension specialist or certified crop advisors for any additional pesticide resistance-management and (or) IPM recommendations for specific crops and pathogens or pest problems in your area.

For further information or to report suspected resistance, contact Syngenta Canada Inc. at 1-877-SYNGENTA (1-877-964-3682) or at [www.syngenta.ca](http://www.syngenta.ca).