

2015-09-03

2013-1930

Bottle

|       |   |             |
|-------|---|-------------|
| GROUP | 4 | INSECTICIDE |
|-------|---|-------------|

## SOMBRERO 600 FS

Suspension

SOMBRERO 600 FS is a systemic insecticide seed treatment (for use only in commercial Seed Treatment Facilities) for early season protection of canola, mustard (condiment-type only) and rapeseed seed and seedlings against flea beetles. SOMBRERO 600 FS (for use only in commercial Seed Treatment Facilities) provides early season protection of field corn for seed production against corn flea beetle which vectors Stewart's Wilt disease by feeding on corn seedlings. SOMBRERO 600 FS also provides early season control of wireworms in field corn, cereals and soybeans and control of soybean aphid, bean leaf beetle and seedcorn maggot in soybeans. SOMBRERO 600 FS can be used (for both on farm and commercial Seed Treatment Facilities) on cereals and soybeans.

### AGRICULTURAL

GUARANTEE: Imidacloprid..... 600 g/L

Contains 1,2-benzisothiazolin-3-one at 0.058% as a preservative

Warning, contains the allergen soy

REGISTRATION NO. 30505 PEST CONTROL PRODUCTS ACT

READ THE LABEL AND LEAFLET BEFORE USING

KEEP OUT OF REACH OF CHILDREN

WARNING



POISON

SHAKE WELL BEFORE USING

NET CONTENTS: 1 – 500 Litres

Adama Agricultural Solutions Canada Ltd.

302 - 179 McDermot Avenue

Winnipeg, MB R3B 0S1

855-264-6262

This product contains no colourant. All seed treated with this product must be conspicuously coloured at the time of treatment. An appropriate colourant must be added when this product is applied. Regulations pertaining to the "Seeds Act" must be strictly adhered to when using this product. A blue colourant must be added when this product is applied to oilseed, and an appropriate colour must be added when this product is applied to corn, cereals and soybeans.

## PRECAUTIONS:

### KEEP OUT OF REACH OF CHILDREN

Harmful or fatal if swallowed. Harmful if absorbed through skin or inhaled. Avoid breathing vapour or spray mist. Avoid contact with skin, eyes, or clothing. When applying or handling SOMBRERO 600 FS, or when handling seed treated with SOMBRERO 600 FS, work in a well-ventilated area and wear a long-sleeved shirt and long pants, chemical-resistant gloves, and shoes plus socks. DO NOT use leather or cloth gloves. Wear goggles and a suitable dust mask approved by NIOSH when handling this product. In addition, in commercial facilities, all workers involved in mixing/loading, application, bagging, clean-up and repair must wear cotton coveralls and a NIOSH/BHSE-approved respirator. Follow manufacturer's instructions for cleaning/maintaining Personal Protective Equipment (PPE). If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. No food, drink or tobacco should be allowed in areas of chemical storage or use. 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.

### For Commercial Seed Treatment Facility

Transfer system: For canola, mustard, rapeseed, and corn when containers are larger than 18 Liters – Use a closed pump transfer system that avoids open pouring when transferring the liquid concentrate from such containers into the spray tank.

Use closed transfer system for cereals and soybean which includes closed mixing, loading, calibrating and closed treatment equipment.

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:

This product is toxic to wildlife. Keep out of lakes, streams, ponds or other aquatic systems. Do not contaminate water when disposing of equipment washwaters. This product is highly toxic to aquatic invertebrates. This product is toxic to birds. Dispose of all excess and any spilled treated seed pieces by covering or incorporating into the soil. Left over treated seed should be double sown around the headland, or buried away from water sources such as lakes, streams, ponds or other aquatic systems. Apply this product only in accordance with this label.

Imidacloprid is toxic to bees. Dust generated during planting of treated seed may be harmful to bees and other pollinators. To help minimize the dust generated during planting, refer to the complete guidance "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) 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. Do not load or clean planting equipment near bee colonies, and avoid places where bees may be foraging, such as flowering crops or weeds. When turning on the planter, avoid engaging the system where emitted dust may contact honey bee colonies. Spilled or exposed seeds and dust must be incorporated into the soil or cleaned up from the soil surface.

**FIRST AID:**

**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 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.

**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.

Take the container label or product name and Pest Control Product Registration Number with you when seeking medical attention.

**TOXICOLOGICAL INFORMATION:** No specific antidote is available. Treat the patient symptomatically.

**STORAGE:** Store in cool, dry place and in such a manner as to prevent cross contamination with other pesticides, fertilizers, food, and feed. Store in original container and out of reach of children, preferably in a locked storage area. Keep container closed. Do not store in direct sunlight. Protect from freezing temperatures.

**DISPOSAL:** Do not contaminate water, food, or feed by storage or disposal.

**RECYCLABLE CONTAINER:** 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:

1. Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.
2. Make the empty, rinsed container unsuitable for further use. If there is no container collection site in your area, dispose of the container in accordance with provincial requirements. 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.

**DISPOSAL (FOR RETURNABLE CONTAINERS):**

Do not reuse this container for any purpose. For disposal, this empty container may be returned to the point of purchase (distributor/dealer).

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.

**TRIPLE RINSING INSTRUCTIONS FOR CONTAINER DISPOSAL (FOR NONRETURNABLE AND RECYCLABLE CONTAINERS ONLY):**

This container should be triple rinsed prior to its disposal. The rinsate can be added to the seed treatment provided the volume of water does not exceed 6 % of the container size.

Add 1/3 of the rinse water to the container and mix the contents thoroughly. Empty the rinsate into the seed treater holding tank and repeat this process two more times making sure the total volume of rinsate does not exceed 6 % of the container size. Make sure rinsate is thoroughly mixed with seed treatment before treating. Close the container.

**CAUTION:**

Do not dilute beyond 6 % or excess seed wetness may result in seed handling difficulties. Using excess water can also cause SOMBRERO 600 FS to thin resulting in settling of solids in the product.

**SEED QUALITY:** Treatment of highly mechanically damaged seed, or seed of known low vigour and poor quality may result in reduced germination and/or reduction of seed and seedling vigour. If seed lot quality is unknown, conduct a germination test on a small portion of seed before committing the total seed lot to a selected chemical treatment.

**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.

**SOMBRERO 600 FS**

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**GENERAL INFORMATION:**

SOMBRERO 600 FS is a systemic insecticide seed treatment for early season protection of canola, mustard (condiment-type only) and rapeseed seed and seedlings from flea beetles. In areas where flea beetle populations are often high, the higher application rate is recommended.

SOMBRERO 600 FS provides early season protection of field corn for seed production against corn flea beetle which vectors Stewart's Wilt disease by feeding on corn seedlings.

SOMBRERO 600 FS also provides early season control of wireworms in field corn, cereals and soybeans and control of soybean aphid, bean leaf beetle and seedcorn maggot in soybeans.

**DIRECTIONS FOR USE:**

For use in commercial seed treaters only. Not for use on agricultural establishments in hopper-box, slurry-box, or other seed treatment applications at, or immediately before, planting. This product is to be used in liquid or slurry treaters. Mix thoroughly before use, or use entire container at one time.

Equipment used in seed treating plants can vary, thus it is advised that a MANA Technical Representative be contacted to discuss the use of SOMBRERO 600 FS Insecticide in the intended seed treater prior to use. SOMBRERO 600 FS treated seed may reduce seed flow in the seed drill. Recalibration of the seed drill may be required to obtain correct seeding rate before planting. SOMBRERO 600 FS can be used as an over-treatment.

**Canola, mustard (condiment-type only), and rapeseed**

Mixing Instructions per 100 kg seed.

|                      | Component       |        |               |
|----------------------|-----------------|--------|---------------|
| Application rate     | SOMBRERO 600 FS | Water* | Total Mixture |
| 667 mL/100kg seed to | 670 mL          | 67 mL  | 737 mL        |
| 1333 mL/100kg seed   | 1330 mL         | 133 mL | 1463 mL       |

\*See Triple Rinsing Instructions

**NOTE:** A colourant **MUST** be added to this product to colour seed in accordance with the PCP Act and the Seeds Act Regulations. A blue colourant must be added when this product is applied to oilseed.

**Corn**

For early season control of corn flea beetle and wireworms

| CROP                           | PEST      | APPLICATION RATE   | REMARKS  |
|--------------------------------|-----------|--|--|
| Field Corn                     | Wireworms | 21.3 mL product per 80,000 seeds (0.16 mg ai per kernel) | Dilute in sufficient water to achieve uniform distribution on the seed.  |
| Field Corn for Seed Production | Wireworms | 21.3 mL product per 80,000 seeds (0.16 mg ai per kernel) | Ensure that seed is adequately coloured. Other polymers and coating materials may be required. Contact your MANA |

|  |   |  |  |
|--|---|--|--|
|  | Corn flea beetle<br>(vector of Stewart's<br>Wilt) | 80 mL product<br>per 80,000 seeds<br>(0.6 mg ai per<br>kernel) | representative for dilution<br>instructions specific to the<br>equipment in your treatment<br>facility |
|--|---|--|--|

**NOTE:** A colourant **MUST** be added to this product to colour seed in accordance with the PCP Act and the Seeds Act Regulations. An appropriate colour for corn must be added when this product is applied to corn seed.

## WIREWORM CONTROL IN CEREALS

### DURUM WHEAT, WINTER WHEAT, SPRING WHEAT, BARLEY & OATS

To provide early season protection against crop stand injury caused by wireworm apply SOMBRERO 600 FS at 17-25 mL/100 kg of seed. For fields with a history of moderate to high wireworm pressure, treat crops at 34-50 mL / 100 kg seed. Use the higher rate when infestation pressures are expected to be heavy. Do not apply any subsequent application of a Group 4 Insecticide (i.e. in-furrow or foliar application) following treatment with SOMBRERO 600 FS on cereals.

For use in commercial and on-farm seed treatment equipment. Mix thoroughly before use or use entire container at one time. All seed must be conspicuously coloured at the time of treatment in accordance with *Seed Act and Regulations*. Seed treated with SOMBRERO 600 FS may reduce seed flow in the seed drill. Recalibration of the seed drill may be required to obtain correct seeding rate before planting.

| CROP   | PEST     | Use Rate / 100 kg seed |        | REMARKS  |
|--|----------|------------------------|--------|--|
|  |          | mL product             | g a.i. |  |
| Wheat (durum, spring, winter),<br>Barley, Oats | wireworm | 17-50                  | 10-30  | Dilute in sufficient liquid to achieve uniform distribution on the seed. |

**NOTE:** A colourant **MUST** be added to this product to colour seed in accordance with the PCP Act and the Seeds Act Regulations. A red colourant must be added when this product is applied to grain.

Pre-test the germination of a small sample of each seed lot with SOMBRERO 600 FS prior to commercial application to the whole lot. Carry-over of seed treated with SOMBRERO 600 FS is not recommended.

### TANK MIXTURES WITH FUNGICIDES

For control of certain seed and soil-borne pathogens in wheat, barley and oat seed and seedlings, SOMBRERO 600 FS may be mixed with Raxil T or Raxil MD Seed Treatment Fungicides. Follow all appropriate directions and precautions as specified on the fungicide labels. Do not tank mix SOMBRERO 600 FS with pesticides, fertilizers or any other chemical additives unless recommended on this label.

|      |                          |  |
|------|--------------------------|--|
| Crop | Seed Treatment Fungicide | Application rate mL<br>product/100 kg seed |
|------|--------------------------|--|

|  |          |     |
|--|----------|-----|
| Wheat (spring, winter & durum), barley, oats | Raxil T  | 225 |
| Wheat (spring, winter & durum), barley, oats | Raxil MD | 300 |

Do not use treated seed for food or feed. Do not graze or feed livestock on treated areas for four weeks after planting.

### SOYBEANS

For early season protection against soybean aphid and reduce early-season defoliation caused by the overwintering generation of bean leaf beetle apply SOMBRERO 600 FS at 104-208 mL/100 kg of seed. To provide early season protection against crop stand injury caused by wireworm and seed corn maggot apply SOMBRERO 600 FS at 104-208 mL/100 kg of seed.

Use the higher rate when insect populations are expected to be high. Do not apply any subsequent application of a Group 4 Insecticide (i.e. in-furrow or foliar application) following treatment with SOMBRERO 600 FS for cereals and soybeans. Ensure product is thoroughly mixed prior to application or use entire container at one time.

Apply SOMBRERO 600 FS to soybeans through slurry applicator seed treaters which provide uniform seed coverage. Uneven or incomplete seed coverage may not give the desired level of insect control. Maintain constant agitation of the slurry during application. Allow the seed to dry before bagging or storing into bulk containers. This product contains no colourant. All seed must be conspicuously coloured at the time of treatment in accordance with *Seed Act and Regulations*.

| CROP     | PEST  | Use Rate / 100 kg seed |          | REMARKS  |
|----------|---|------------------------|----------|--|
|          |   | mL product             | g a.i.   |  |
| Soybeans | Soybean aphid,<br>Bean leaf beetle,<br>Seedcorn maggot,<br>Wireworm | 104-208                | 62.5-125 | Use the higher rate for:<br>1. early seeding;<br>2. when insect populations are expected to be high;<br>3. extended control period for aphids.<br>Dilute in sufficient liquid to achieve uniform distribution on the seed. |

**NOTE:** A colourant **MUST** be added to this product to colour seed in accordance with the PCP Act and the Seeds Act Regulations. An appropriate colour for soybeans must be added when this product is applied to soybeans.

### TANK MIXTURES WITH FUNGICIDES

For control of certain seed and soil-borne pathogens in soybean seeds and seedlings, SOMBRERO 600 FS may be mixed with listed seed treatment fungicides. Follow all appropriate directions and precautions as specified on the fungicide labels. Do not tank mix SOMBRERO 600 FS with pesticides, fertilizers or any other chemical additives unless recommended on this label.



| Crop     | Seed Treatment Fungicide | Application rate mL product/100 kg seed |
|----------|--------------------------|---|
| Soybeans | Apron Maxx RTA           | 325                                     |
|          | Apron Maxx RFC           | 100                                     |

Pre-test the germination of a small sample of each seed lot with SOMBRERO 600 FS prior to commercial application to the whole lot. Carry-over of SOMBRERO 600 FS treated seed is not recommended. SOMBRERO 600 FS can be used as an overtreatment.

#### **METHOD OF APPLICATION:**

Storage of SOMBRERO 600 FS at low temperatures is not recommended. Prior to and during application, SOMBRERO 600 FS must be THOROUGHLY AGITATED to ensure uniform mixing of the product. Due to the viscosity of the material, it should be kept above 10° C prior to and during application. Do not apply direct heat to container.

#### **RESISTANCE MANAGEMENT RECOMMENDATIONS**

For resistance management, please note that SOMBRERO 600 FS contains a Group 4 insecticide. Any insect population may contain individuals naturally resistant to SOMBRERO 600 FS and other Group 4 insecticides. The resistant individuals may dominate the insect population if this group of insecticides is used repeatedly in the same fields. Other resistance mechanisms that are not linked to site of action, but are specific for individual chemicals, such as enhanced metabolism, may also exist. Appropriate resistance-management strategies should be followed. To delay insecticide resistance:

- Where possible, rotate the use of SOMBRERO 600 FS or other Group 4 insecticides with different groups that control the same pests in a field.
- Use tank mixture with insecticides from a different group when such use is permitted.
- Insecticide use should be based on an IPM program that includes scouting, record keeping, and considers cultural, biological and other chemical control practices.
- Monitor treated pest populations for resistance development.
- Contact your local extension specialist or certified crop advisors for any additional pesticide resistance-management and/or IPM recommendations for the specific site and pest problems in your area.
- For further information or to report suspected resistance contact Adama Agricultural Solutions Ltd. at 855-264-6262.

#### **USE RESTRICTIONS:**

1. Do not use treated seed for food, feed or oil processing.
2. Do not graze or feed livestock on treated areas for four weeks after planting.
3. Mustard greens grown or harvested from SOMBRERO 600 FS treated seed must not be used for human consumption.
4. Treated canola, rapeseed or mustard (condiment-type only) seed stored for periods in excess of 6 months may decrease in germination at a faster rate than untreated seed. Treated seed stored for more than 6 months should be tested for germination before planting. Do not store treated seed above 25°C or in direct sunlight.
5. This chemical demonstrates the properties and characteristics associated with chemicals

detected in ground water. The use of SOMBRERO 600 FS in areas where soils are permeable, particularly where the water table is shallow, may result in ground water contamination.

#### **LABELLING TREATED SEED:**

All bags containing treated seed must be labelled or tagged as follows: “This seed has been treated with SOMBRERO 600 FS seed protectant, which contains imidacloprid. Do not use for feed, food or oil processing. Store away from feeds and other foodstuffs.”

All treated canola, mustard and corn seed for sale or use in Canada must be labelled with the following information:

Imidacloprid is toxic to bees. Dust generated during planting of treated seed may be harmful to bees and other pollinators. To help minimize the dust generated during planting, refer to the complete guidance “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). 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. Do not load or clean planting equipment near bee colonies, and avoid places where bees may be foraging, such as flowering crops or weeds. When turning on the planter, avoid engaging the system where emitted dust may contact honey bee colonies. Spilled or exposed seeds and dust must be incorporated into the soil or cleaned up from the soil.

#### **PRECAUTIONS:**

##### **KEEP OUT OF REACH OF CHILDREN**

Harmful or fatal if swallowed. Harmful if absorbed through skin or inhaled. Avoid breathing vapour or spray mist. Avoid contact with skin, eyes, or clothing. When applying or handling SOMBRERO 600 FS, or when handling seed treated with SOMBRERO 600 FS, work in a well-ventilated area and wear a long-sleeved shirt and long pants, chemical-resistant gloves, and shoes plus socks. DO NOT use leather or cloth gloves. Wear goggles and a suitable dust mask approved by NIOSH/MSHA when handling this product. In addition, in commercial facilities, all workers involved in mixing/loading, application, bagging, clean-up and repair must wear cotton coveralls and a NIOSH/MSHA/BHSE-approved respirator. Follow manufacturer’s instructions for cleaning/maintaining Personal Protective Equipment (PPE). If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. No food, drink or tobacco should be allowed in areas of chemical storage or use. 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.

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**STORAGE:** Store in cool, dry place and in such a manner as to prevent cross contamination with other pesticides, fertilizers, food, and feed. Store in original container and out of reach of children, preferably in a locked storage area. Keep container closed. Do not store in direct sunlight. Protect from freezing temperatures.

**DISPOSAL:** Do not contaminate water, food, or feed by storage or disposal.

**RECYCLABLE CONTAINER:** 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:

- 1 Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.
- 2 Make the empty, rinsed container unsuitable for further use. If there is no container collection site in your area, dispose of the container in accordance with provincial requirements. 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.

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**TRIPLE RINSING INSTRUCTIONS FOR CONTAINER DISPOSAL (FOR NONRETURNABLE AND RECYCLABLE CONTAINERS ONLY):**

This container should be triple rinsed prior to its disposal. The rinsate can be added to the seed treatment provided the volume of water does not exceed 6 % of the container size.

Add 1/3 of the rinse water to the container and mix the contents thoroughly. Empty the rinsate into the seed treater holding tank and repeat this process two more times making sure the total volume of rinsate does not exceed 6 % of the container size. Make sure rinsate is thoroughly mixed with seed treatment before treating. Close the container.

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