

Sirocco

Sirocco is a contact fungicide that controls/suppresses powdery mildew on vegetable and ornamental crops in greenhouses, on outdoor bedding plants (including, but not limited to, African daisy, poinsettia, hydrangea, phlox, rose, bee balm, flowering dogwood), field cucurbits (cucumbers, melons, pumpkins, squash), stone fruits (peach, nectarine, apricot, plum, prune), Cannabis (marihuana) that is produced commercially indoors, hops, greenhouse and field strawberries, greenhouse and field herbs and spices, grapes (conventional and organic), artichokes, field peppers. Sirocco suppresses grey mold on grapes and scab on apple trees.

COMMERCIAL

DUST

**WARNING SKIN IRRITANT
CAUTION EYE IRRITANT
WARNING CONTAINS THE ALLERGEN SULFITES**

READ THE LABEL BEFORE USING

ACTIVE INGREDIENT : Potassium bicarbonate 85.00%

REGISTRATION No. 31091 PEST CONTROL PRODUCTS ACT

NET CONTENTS:

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GENERAL INFORMATION : Sirocco is a contact fungicide that controls/ suppresses Powdery Mildew on vegetable and ornamental crops in greenhouses, suppresses Powdery Mildew on outdoor bedding plants, field cucurbits and stone fruits, Cannabis (marihuana) that is produced commercially indoors, hops, greenhouse and field strawberries, and greenhouse and field herbs and spices and controls powdery mildew on grapes, artichokes and field peppers. Sirocco suppresses grey mold on grapes and scab on apple trees. Sirocco is applied using a sufficient volume of water to insure complete coverage of all stems, foliage and fruit.

IMPORTANT: Read the entire label before using Sirocco.

DIRECTIONS FOR USE: DO NOT allow effluent or runoff containing this product to enter lakes, streams, ponds or other waters. As this pesticide 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 sprayer application: DO NOT apply during periods of dead calm. Avoid application of this product when winds are gusty. DO NOT apply with spray droplets smaller than the American Society of Agricultural Engineers (ASAE) medium classification.

Airblast application: DO NOT apply during periods of dead calm. Avoid application of this product when winds are gusty. DO NOT direct spray above plants to be treated. Turn off outward pointing nozzles at row ends and outer rows. DO NOT apply when wind speed is greater than 16 km/h at the application site as measured outside of the treatment area on the upwind side.

DO NOT apply by air.

KEEP OUT OF REACH OF CHILDREN

FIRST AID:

- INGESTION:** 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.
- INHALATION:** 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 a poison control centre or doctor for further treatment advice.
- IF ON SKIN/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 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 further treatment advice.
- GENERAL:** Remove victim to a safe and uncontaminated area. Seek medical attention or contact a poison control centre IMMEDIATELY if irritation occurs and persists or is severe. Take container, label or product name

and Pest Control Product Registration Number with you when seeking medical attention.

TOXICOLOGICAL INFORMATION: Treat symptomatically. There is no need to induce vomiting. Monitor patient until ingested material clears their system.

PRECAUTIONS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

KEEP OUT OF REACH OF CHILDREN

CAUTION: Avoid contact with eyes. May irritate eyes. Causes skin and mucous membrane irritation. DO NOT get on skin. Avoid breathing dust or spray mist. Only protected workers may be in the area during application. Apply only when potential for drift to areas of human habitation or areas of human activity such as houses, cottages, schools and recreational areas is minimal. Take into consideration wind speed, wind direction, temperature inversions, application equipment and sprayer settings. Do not store near food or feed.

ENVIRONMENTAL HAZARDS:

To reduce runoff from treated areas into aquatic habitats avoid application to areas with a moderate to steep slope, compacted soil, or clay. Avoid application when heavy rain is forecast. Contamination of aquatic areas as a result of runoff may be reduced by including a vegetative strip between the treated area and the edge of the water body.

USER SAFETY RECOMMENDATIONS: Users should: Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove clothing immediately if pesticide gets inside. Then thoroughly wash and put on clean clothing.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers must wear appropriate eyewear, waterproof gloves, long-sleeved shirt and pants or coveralls, and footwear with socks.

There is a 4-hour restrictive entry-interval (REI) requirement. Personal protective equipment is required for entry into treated areas that may involve contact with anything that has been treated, such as plants, soil or water. Individuals should wear gloves, long-sleeved shirt and pants or coveralls, and shoes plus socks for any post-application activities.

MIXING INSTRUCTIONS: Sirocco must be diluted with water before applying. Carefully measure and mix the recommended amounts of product and water. Fill tank with $\frac{1}{2}$ to $\frac{3}{4}$ of the selected volume of water prior to the addition of Sirocco. Start mechanical or hydraulic agitation. Slowly add the required amount of Sirocco to the tank. Continue to fill the tank with water to the desired volume while agitating to promote uniform distribution and prevent settling.

DO NOT MIX WITH OTHER SOLUBLE PESTICIDES OR FERTILIZERS NOT COMPATIBLE WITH MILD ALKALINE SOLUTIONS. THE ADDITION OF SURFACTANT OR WETTING AGENT TO SPRAY IS NOT REQUIRED. PRODUCT IS PRE-FORMULATED WITH THESE PRODUCTS FOR BEST PERFORMANCE. DO NOT ADJUST SPRAY SOLUTION pH AFTER MIXING OF PRODUCT. ACIDIFICATION OF SOLUTION WILL CAUSE REDUCED PRODUCT PERFORMANCE. DO NOT STORE UNUSED SPRAY SOLUTION. DISPOSE OF UNUSED SOLUTION ON SITE.

SPRAY APPLICATION METHOD: Do not apply this product through any type of irrigation system. For best results, use a properly calibrated sprayer and check the calibration frequently.

AGRICULTURAL APPLICATIONS: Sirocco is recommended for the control/suppression of powdery mildew caused by: *Oidium lycopersicum* on tomato; *Leveillula taurica* on artichokes and sweet pepper; *Podosphaera xanthii*(syn.: *Phodosphaera fusca* and *Sphaerotheca fuliginea*) on cucumber and pumpkin grown in greenhouses; *Podosphaera clandestina* and *Podosphaera pannosa* (syn.: *Sphaerotheca pannosa*) on stone fruits (peach, nectarine, apricot, plum, prune); *Podosphaera spp.* and *Erysiphe spp.* on field cucurbits; *Uncinula necator* on grapes; *Podosphaera macularis* (formerly *S. humuli*) on hops; *Sphaerotheca spp.*, *Erysiphe spp.*, *Podosphaera spp.* on greenhouse and field strawberries and herbs and spices, *Sphaerotheca spp.* on Cannabis (marihuana) that is produced commercially indoors. Sirocco is recommended for the suppression of grey mold caused by *Botrytis cinerea* in grapes and apple scab caused by *Venturia inaequalis*.

ORNAMENTAL APPLICATIONS: Sirocco is recommended for the control/suppression of powdery mildew caused by: *Oidium sp.* on African daisy and poinsettia; *Erysiphe polygoni* on hydrangea; *Golovinomyces cichoracearum* (syn. *Erysiphe cichoracearum*) on phlox and bee balm; *Microsphaera sp.* on flowering dogwood; and for the suppression of Powdery mildew caused by: *Oidium sp.*, *Erysiphe polygoni*, *Golovinomyces cichoracearum* (syn. *Erysiphe cichoracearum*, *Microsphaera sp.* and *Podosphaera pannosa* (syn.: *Sphaerotheca pannosa*) on outdoor bedding plants.

Not all bedding plants or varieties of bedding plants have been tested for phytotoxicity. It is recommended that a phytotoxicity test be conducted on a small group of representative plants before applying to a large number of plants. Sirocco may cause phytotoxicity on certain cultivars of hydrangea.

MAXIMUM NUMBER OF APPLICATIONS PER SEASON: Ten (10)

USE PATTERN: Start application at first sign of disease or when conditions are conducive for disease development. Use adequate spray volume to obtain excellent coverage of foliage. Shorten the application interval after rainy weather or according to plant growth and disease pressure. The pre-harvest interval (PHI) is 0 days.

Post infection (apple): For apple scab, apply after rainfall or a prolonged period of moisture, when conditions are conducive for the disease development (infection). Apply after infection occurs before reaching 400 degree hours (Tbase: 0°C)

Crops	Disease	Pathogens	Rate (kg/ha)	Interval	Spray volume (L/ha)	Level
Greenhouse Vegetables						
Cucumber	Powdery mildew	<i>Podosphaera xanthii</i> (syn. <i>Podosphaera fusca</i> and <i>Sphaerotheca fuliginea</i>) <i>Leveillula taurica</i>	5.6	7	1000-2000	Control
Sweet Pepper						
Tomato						
Pumpkin	Powdery mildew	<i>Podosphaera xanthii</i> (syn. <i>Podosphaera fusca</i> and <i>Sphaerotheca fuliginea</i>)	5.6	7	1000	Suppression
Greenhouse Ornamentals						

Flowering Dogwood	Powdery mildew	<i>Microsphaera sp.</i>	5.6	7 - 14	1000	Control
Bee Balm		<i>Golovinomyces cichoracearum</i> (syn. <i>Erysiphecichoracearum</i>)	5.6			Control
African daisy		<i>Oidium sp.</i>	2.8 - 5.6			Control
Hydrangea		<i>Erysiphe polygoni</i>	5.6			Control
Poinsettia		<i>Oidium sp.</i>	5.6			Control
Phlox		<i>Golovinomyces cichoracearum</i> (syn. <i>Erysiphecichoracearum</i>)	2.8 – 5.6			Suppression
Field Bedding Plants Including but not limited to:						
Flowering Dogwood	Powdery mildew	<i>Microsphaera sp.,</i>	2.8 - 5.6	7 – 14	1000	Suppression
Bee Balm		<i>Golovinomyces cichoracearum</i> (syn. <i>Erysiphe cichoracearum</i>)				
African daisy		<i>Oidium sp.</i>				
Hydrangea		<i>Erysiphe polygoni,</i>				
Poinsettia		<i>Oidium sp.</i>				
Phlox		<i>Golovinomyces cichoracearum</i> (syn. <i>Erysiphe cichoracearum</i>)				
Rose		<i>Podosphaera pannosa</i> (syn. <i>Spaerotheca pannosa</i>)				
Grapes	Powdery mildew	<i>Uncinula necator</i>	2.8	7 – 14	500	Control

			5.6	7 – 14	1000	Control
	Grey mold	<i>Botrytis cinerea</i>	2.8	7 – 14	500	Suppression
			5.6	7 – 14	1000	Suppression
Field Cucurbits	Powdery mildew	<i>Podosphaera</i> spp., <i>Erysiphe</i> spp.	5.6	7 – 10	1000	Suppression
Field Artichokes	Powdery mildew	<i>Leveillula taurica</i> , <i>Erysiphe</i> <i>cichoracearum</i>	2.8 - 5.6	7 - 14	1000	Control
Field Peppers	Powdery mildew	<i>Leveillula taurica</i>	2.8 – 5.6	7	1000	Control
Stone Fruits	Powdery mildew	<i>Podosphaera clandestine</i> , <i>Podosphaera pannosa</i> (syn. <i>Sphaerotheca pannosa</i>)	2.8 – 5.6	7 - 14	1000	Suppression
Hops	Powdery mildew	<i>Podosphaera macularis</i>	2.8 – 5.6	7 – 14	500 – 1000	Suppression
Cannabis (marihuana) produced commercially indoors)	Powdery mildew	<i>Sphaerotheca macularis</i>	2.8 – 5.6	7 - 14	1000	Suppression
Greenhouse and Field Strawberries	Powdery mildew	<i>Sphaerotheca macularis</i>	2.8 – 5.6	7 - 14	1000	Suppression
Greenhouse and field Herbs and Spices¹	Powdery mildew ²	<i>Sphaerotheca</i> spp., <i>Erysiphe</i> spp., <i>Podosphaera</i> spp.	2.8 - 5.6	7 - 14	1000	Suppression
Apple trees	Scab	<i>Venturia inaequalis</i>	2.35 Use under conditions of low disease pressure only. 560 gr in 100 L of water Use Sirocco at 0.5 kg/ha in tank mix with Buran at 9L/ha	After infection up to 400 DH	500 500 to 1000 500	Suppression

¹angelica, anise, balm, basil, borage, burnet, chamomile, caraway, black caraway, catnip, celery seed, chervil, chive, Chinese chive, clary, coriander, costmary, cilantro, cumin, dill, fennel, Florence fennel, fenugreek, horehound, hyssop, juniper berry, lavender, lemongrass, lovage, marigold, marjoram, mustard, nasturtium, parsley, pennyroyal, poppy, rosemary, rue, saffron, sage, savory (summer, winter), sweet bay (bayleaf), tansy, tarragon, thyme, woodruff, wormwood

²Herbs and herb varieties may vary in their tolerance to pest control products, including Sirocco. Since not all herbs and herb varieties have been tested for tolerance to Sirocco, first use of Sirocco should be limited to a small area of each variety to confirm tolerance prior to adoption as a general

field practice. Additionally, consult your seed supplier for information on the tolerance of specific varieties of herbs and herb varieties to Sirocco.

STORAGE:

To prevent contamination, store this product away from food or feed.

DISPOSAL:

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.
3. 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.

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.