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# POTASSIUM BICARBONATE

## Foliar Fungicide

### Soluble Granules

For partial suppression of primary infections of apple scab (*Venturia inaequalis*) in apple production

#### COMMERCIAL (AGRICULTURAL)

CAUTION SKIN IRRITANT

CAUTION EYE IRRITANT

#### READ THE LABEL BEFORE USING

GUARANTEE: Potassium bicarbonate....100%

REGISTRATION NUMBER: 32451,

PEST CONTROL PRODUCTS ACT

NET CONTENTS: 25kg

La Coopérative pomicole du lac des Deux-Montagnes

105 de la Pommeraie, St-Joseph-du-Lac, Qc,

JON 1M0

Telephone: 450-473-3750

**GENERAL INFORMATION:** The foliar fungicide Potassium Bicarbonate is a contact fungicide that partially suppresses primary infections of apple scab (*Venturia inaequalis*) in apple orchards. The fungicide Potassium Bicarbonate should be applied in a spray volume sufficient to cover the entire canopy of the trees. A water spray volume of 500-800 litres of water per hectare is recommended.

**DIRECTIONS FOR USE:**

**APPLICATION TIME:** Begin applications with Potassium Bicarbonate at bud-break stage and when meteorological conditions favour disease spread. Apply during the germination or infection period of spores, between 140 and 290 degree-hours after the beginning of a wetting period. Always apply during rainfall. Spraying is recommended up to 3mm of rain/hour. If rain intensifies over 3mm/hour, wait until it falls below 3mm/hour to continue the spraying. Use over each primary apple scab infection period. The number of degree-hours is obtained by using Mills table (by multiplying the average temperature of the infection period by the duration of the wetting period in hours), or by using forecast model like the apple scab model of Agropomme, CIPRA or RIMpro. Local meteorological weather station use is recommended for optimum application timing. Potassium Bicarbonate acts by direct contact with spores. Due to the fact that it is applied under rainy conditions, it offers no residual activity. Repeat the treatment over the same wetting period if needed (Recalculate the degree-hours from the beginning of the first treatment and if the level of 140 is reached again, a second treatment will be needed).

**DOSAGE:** Apply 4 kg/ha in a spray volume of 500-800 L/ha (0.5-0.8%). Ensure a sufficient volume of water to cover the entire canopy of the trees.

**APPLICATION METHODS:** Apply using a properly calibrated air-blast sprayer. Potassium Bicarbonate must be diluted with water before use. Carefully measure the amount of product needed. Fill tank with half of the selected amount of water prior to the addition of Potassium Bicarbonate. Start mechanical or hydraulic agitation. Slowly add the required amount of Potassium Bicarbonate to the tank. Continue to fill the tank with water to the desired volume while agitating to promote uniform distribution.

**DO NOT MIX WITH OTHER PESTICIDES OR FERTILIZERS.**

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.

DO NOT apply by air.

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 sites as measured outside of the treatment area on the upwind side.

**PRECAUTIONS:**

KEEP OUT OF REACH OF CHILDREN.

May irritate the skin. Avoid contact with skin. Causes eye and mucous irritation. Avoid contact with eyes. Avoid breathing dust or spray mist.

During application, wear a rain suit, waterproof boots, gloves and goggles as well as a NIOSH approved mist filtering mask or respirator with any N-95, P-95, or R-95 filter.

When mixing/loading and during all clean-up and repair activities, wear a long-sleeved shirt, long pants, shoes plus socks, waterproof gloves, goggles as well as a NIOSH approved mist filtering mask or respirator with any N-95, P-95, or R-95 filter.

Wash thoroughly with soap and water after handling the product. Remove contaminated clothing and follow manufacturer's directions for cleaning\maintaining personal protective equipment (PPE) before reuse. If no such instructions are available, use clothing detergent and hot water for cleaning all washable PPE. Keep and wash PPE separately from other laundry.

Apply only when the 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.

There is no pre-harvest interval (PHI)

There is no restricted entry interval (REI).

## **ENVIRONMENTAL PRECAUTIONS**

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.

### **FIRST AID:**

**INGESTION:** Call a poison control center 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/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.

**INHALATION:** 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:** Keep 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 centre or doctor for 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.

### **STORAGE:**

Keep containers well closed and properly labelled. Keep in a cool, dry and well ventilated area. Keep away from acids. To prevent contamination, store this product away from food or feed. Store according to provincial regulations.

**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.

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. The user assumes the risk to persons or property that arises from any such use of this product.