

2020-5120
2021-05-04

BIO-SAVE[®] 10 LP

WETTABLE POWDER
FUNGICIDE

For post-harvest use on apples, pears, cherries and potatoes. Suppresses blue mould and grey mould on apples, pears and cherries, mucor rot on apples and pears, and dry rot and silver scurf on potatoes.

COMMERCIAL

GUARANTEE: *Pseudomonas*₁₀ *syringae* Strain ESC-10.....29.8%
Contains a minimum of 9 x 10¹⁰ CFU/g

KEEP OUT OF REACH OF CHILDREN

READ THE LABEL BEFORE USING

POTENTIAL SENSITIZER

REGISTRATION NO.: 29673 PEST CONTROL PRODUCTS ACT

NET CONTENTS:

Registration holder:
Danstar Ferment AG
Poststrasse 30
CH-6300 ZUG
Switzerland

Canadian representative:
Lallemand Inc./LALLEMAND PLANT CARE
59 Industrial Park Crescent, Unit 1
Sault Ste. Marie, ON P6B 5P3
Canada
Phone: (705) 942-5824

Date of Manufacture:

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 swallowed: Rinse mouth and throat with copious amounts of water. Do not induce vomiting. If on skin/clothing: Take off contaminated clothing. Wash with plenty of soap and water. If inhaled: Move to fresh air. If in eyes: Hold eye open and rinse slowly and gently with water. Remove contact lenses, if present, then continue rinsing eye. General: Seek medical attention immediately if irritation or signs of toxicity occur and persist or are severe. Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

TOXICOLOGICAL INFORMATION:

Treat symptomatically.

PRECAUTIONS:

KEEP OUT OF REACH OF CHILDREN. Avoid inhaling/breathing dusts. Avoid contact with skin, eyes and clothing. When mixing wear protective eye wear (goggles, face shield or safety glasses). Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before re-use.

Wear a long sleeved shirt, long pants, shoes plus socks, waterproof gloves, eye goggles and a dust/mist filtering respirator (dust mask) meeting a standard of N-95, R-95, P-95 or HE when, loading the product and during clean-up/repair activities. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

STORAGE:

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

Store in a dry area inaccessible to unauthorized personnel. Store in original container. Keep container closed when not in use. To preserve the live active ingredient, store at 4°C for up to one year from the date of manufacture or at 23°C for up to three weeks from the date of manufacture.

DISPOSAL:

Triple- or pressure-rinse the empty container. Add the rinse water to the spray mixture in the tank.

Follow provincial instruction for any required additional cleaning of the container prior to its disposal.

Make the empty container unsuitable for further use.

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.

GENERAL USE INFORMATION:

Bio-Save® 10 LP is a naturally occurring biological control agent for postharvest applications only.

USE RATE DETERMINATION:

Prepare only the amount of spray solution required to treat the measured volume of fruit or tubers. Accurate spray equipment calibration is essential prior to use.

APPLICATION INSTRUCTIONS – Agricultural Use:

GENERAL: Avoiding spray drift at the application site is the responsibility of the applicator. The interaction of many equipment- and weather-related factors determine the potential for spray drift. The applicator and the grower/treatment coordinator are responsible for considering all of these factors when making decisions. Where provinces/territories have more stringent regulations, they should be observed.

Carefully read and follow all label directions, use rates and restrictions. Bio-Save® 10 LP should be applied prior to disease development. For proper application, determine the volume of fruit or tubers to be treated, the recommended label use rate and select appropriate water volumes.

POSTHARVEST: Thorough coverage is essential for optimum disease control. To achieve good coverage, use the appropriate spray pressure, liters per volume of fruit or tubers, nozzles, nozzle spacing and table, conveyor or piler speed. Consult spray nozzle and accessory catalogues for specific information on proper equipment calibration.

MIXING INSTRUCTIONS:

Determine the volume of water needed to provide thorough coverage of fruit or tubers. The amount of water needed will depend on the spray equipment and local experience. Partially fill the spray tank with clean water and begin agitation. Add the specified amount of Bio-Save® 10 LP to the tank (consult DIRECTIONS FOR USE). Finish filling the tank to the desired volume that provides optimal coverage. Maintain agitation. Do not allow spray mixture to stand overnight or for prolonged periods.

Application Methods: After the fruit is harvested and cleaned, its surface is exposed to a solution containing the ESC-10 bacterium. The pesticide applicator can apply the solution by spraying, or by dipping the fruit into the solution. These applications are considered indoor uses, since they take place in enclosed areas.

DIRECTIONS FOR USE:

This product is not to be used in a manner, which may generate spray mists in the worker environment.

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

DO NOT allow Bio-Save 10 LP Biological Fungicide contaminated waste water from processing plants to enter lakes, streams, ponds or other waters.”

DO NOT apply by air.

CHERRIES

Bio-Save® 10 LP suppresses the decay caused by blue mold (*Penicillium expansum*) and gray mold (*Botrytis cinerea*).

Conventional Dip or Drench: Add 500 grams of product to 100 liters of water. Agitate the mixture to ensure proper suspension. Drench fruit thoroughly. Recycled dip/drench suspension will need to be recharged at intervals dependent on individual customer use; consult a JET Harvest Solutions technical advisor for more information.

Overhead Application System: Add 500 grams of product to 100 liters of water. Agitate the mixture to ensure proper suspension. Apply over conveyor belt or rollers by drip or spray to cherries prior to packaging. Uniform coverage is required. Recycled suspension will need to be recharged at intervals dependent on individual customer use; consult a JET Harvest Solutions technical advisor for more information. Best control is obtained with an application rate of 4 liters of suspension to 900-1800 kilograms of cherries.

APPLES AND PEARS

Bio-Save® 10 LP suppresses the decay caused by blue mold (*Penicillium expansum*), including benzimidazole-resistant strains, gray mold (*Botrytis cinerea*) and mucor rot (*Mucor piriformis*) on apples and pears in both cold storage and controlled

atmosphere storage. **Bio-Save® 10 LP** is effective on these and other pump fruits: d'Anjou pears and the following apple cultivars: Red Delicious, Golden Delicious, Granny Smith, Fuji, Rome, Empire, Gala, Ida red, Jonathan, and Macintosh.

Conventional Dip or Drench: Add 500 grams of product to 300 liters of water. Agitate the mixture to ensure proper suspension. Treat fruit for at least one minute. Recycled dip/drench suspensions will need to be recharged at intervals dependent on individual use conditions; consult a JET Harvest Solutions technical advisor for more information.

Non-recovery Spray: Add 500 grams of product to 300 liters of water. Agitate the mixture to ensure proper suspension. Apply to freshly cleaned fruit prior to waxing. Apply over soft, clean brushes or donut rolls.

POTATOES

Bio-Save® 10 LP suppresses the decay caused by dry rot (*Fusarium sambucinum*) and silver scurf (*Helminthosporium solani*) on both seed and storage potatoes.

Overhead Spray Application: Add 500 grams of product to a minimal amount of water (approximately 100 liters). Agitate the mixture to ensure proper suspension. Apply over conveyor belt or rollers by drip or spray to potatoes prior to storage. Uniform coverage is required. Apply the entire suspension to 3000 sacks (45.5 kilograms each) of potatoes.

Sweet Potatoes

Bio-Save®10 LP controls the decay of Rhizopus soft rot (*Rhizopus stolonifer*) on sweet potatoes.

Conventional Dip or Drench: Add 500 grams of product to 114L of water. Agitate the mixture to ensure proper suspension. Apply to freshly cleaned sweet potatoes. Drench sweet potatoes thoroughly. Recycled dip/drench suspension will need to be recharged at intervals dependent on individual customer use; consult a Bio-Save technical advisor for more information.

Overhead Application System: Add 500 grams of product to 114L of water. Agitate the mixture to ensure proper suspension. Apply to freshly cleaned sweet potatoes over conveyor belt, brushes, donut rolls, or rollers by drip or spray prior to packaging. For best results, uniform coverage is required. If recycled, suspension will need to be recharged at intervals dependent on individual customer use; consult a Bio-Save technical advisor for more information. Best control is obtained with an application rate of 3.8L of suspension to 8,000-10,000 lbs. (3,629 – 4,536 kilograms) of sweet potatoes.