



# BIOX<sup>®</sup>-C

P O S T H A R V E S T

## Aerosol Grade – Potato Sprout & Silver Scurf Control



### ACTIVE INGREDIENTS:

Clove Oil .....100.0%

NOTICE: This product has not been registered by the US Environmental Protection Agency (EPA). Pace International, LLC represents that this product qualifies for exemption from registration under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA).



### KEEP OUT OF REACH OF CHILDREN DANGER - PELIGRO

Si usted no entiende la etiqueta, busque a alguien para que se la explique en detalle.  
(If you do not understand this label, find someone to explain it to you in detail.)

**Danger.** Harmful if swallowed. Maybe harmful if inhaled. Maybe harmful in contact with skin, causes skin and eye irritation. May cause respiratory irritation and allergy or asthma symptoms or breathing difficulties if inhaled. May cause damage to organs (nervous system, mucous membranes, liver, blood forming systems (bone marrow and spleen) through prolonged or repeated exposure. Harmful to aquatic life. Do not breathe fume, gas, mist, vapors, or spray. In case of inadequate ventilation wear respiratory protection, best used outdoors or in a well-ventilated area. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective clothing, chemical resistant gloves, and safety glasses. Avoid release into the environment.

### FIRST AID

**IF SWALLOWED:** Call a POISON CENTER / doctor if you feel unwell. Rinse mouth. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

**IF INHALED:** Call a POISON CENTER / doctor if you feel unwell or are experiencing respiratory symptoms. Remove person to fresh air and keep comfortable for breathing.

**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. If eye irritation persists: Get medical advice/attention.

**IF ON SKIN:** Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention. See First Aid, Section 4 on your SDS for further instructions.

NOTE: Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

### Personal Protective Equipment (PPE)

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category A on an EPA chemical resistance category selection sheet.

Applicators and other handlers must wear: long-sleeved shirt, long pants, shoes, socks, protective eyewear (goggles or face shield), and chemical-resistant gloves made of any waterproof material, such as polyvinyl chloride, nitrile rubber or butyl rubber. Wash any contaminated clothing before reuse.

**For re-entry:** into treated areas during application and prior to ventilation or settling of aerosol fog, workers must wear: coveralls over long-sleeved shirt, long pants, shoes,

socks, and chemical-resistant gloves made of any waterproof material, such as polyvinyl chloride, nitrile rubber or butyl rubber; face-sealing goggles, unless a full-face respirator is worn; and a NIOSH approved respirator with an organic vapor (OV) cartridge or canister with any R, P or HE prefilter.

### ENVIRONMENTAL HAZARDS

Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment wash waters.

### DIRECTIONS FOR USE

BIOX-C can be applied anytime after potatoes are placed into storage. BIOX-C is intended for application as an aerosol through Forced Air Distribution Systems.

### Forced Air Distribution Method

1. Prepare aerosol generating equipment. Insert aerosol generator intake hose into the BIOX-C container.
2. Set air ducts for recirculation.
3. Placing the exhaust end of aerosol generator at the center of the plenum (air mixing chamber) pointing in the direction of the air flow is an example of an application set-up. Methods of BIOX-C application vary to the storage design, ventilation system, etc. Uniform BIOX-C applications are usually accomplished by experienced, licensed applicators. Contact your local applicator for additional information.
4. Operate recirculation fans continuously during application and for at least 4 hours after completing application (or until fog has completely settled).
5. Ventilating the building after treatment for three (3) to seven (7) days prior to removal of potatoes from storage to reduce potential potato surface odor carry-over is suggested. Length of ventilation time depends on the rate applied and storage temperature.

### Potato Sprout Control During Storage

Initial and subsequent aerosol application doses of BIOX-C vary to the potato variety, bud growth stage of the potatoes, storage temperature, duration of storage, pile conditions (rot, dirt, etc.) and storage design. Contact your local BIOX-C dealer to determine the required application rate for your specific needs and follow the suggested application rate recommendations in the table below.

For optimum sprout control, apply BIOX-C after at least one 'peeper' (showing white tissue) per tuber is observed on stored potatoes. Repeat applications may be applied as necessary throughout the storage duration.

### For a Rate of Apply 1 Gal BIOX-C to

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For a Rate of	Apply 1 Gal BIOX-C to	For a Rate of	Apply 1 Gal Biox-C to
27 ppm	3200 cwt (160 tons)	43 ppm	2000 cwt (100 tons)
29 ppm	3000 cwt (150 tons)	48 ppm	1800 cwt (90 tons)
31 ppm	2800 cwt (140 tons)	54 ppm	1600 cwt (80 tons)
33 ppm	2600 cwt (130 tons)	62 ppm	1400 cwt (70 tons)
36 ppm	2400 cwt (120 tons)	72 ppm	1200 cwt (60 tons)
39 ppm	2200 cwt (110 tons)	87 ppm	1000 cwt (50 tons)

### Silver Scurf (*Helminthosporium solani*) Control on Potatoes During Storage

High initial dose of 130 to 160 ppm may be required to kill Silver Scurf spores for control of secondary spread in storage. Rates will depend on level of infection, storage temperature, storage duration, and condition of the potato pile (dirt, rot, etc.). Applications for Silver Scurf control should be made after the storage has been filled and the cooling process has

5 Gallons  
(19 Liters)



Manufactured By:

**Pace International** LLC

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started. Subsequent applications maybe required if the potatoes are disturbed.

For a Rate of	Apply 1 Gal BIOX-C to	For a Rate of	Apply 1 Gal Biox-C to
96 ppm	900 cwt (45.0 tons)	133 ppm	650 cwt (32.5 tons)
102 ppm	850 cwt (42.5 tons)	144 ppm	600 cwt (30.0 tons)
108 ppm	800 cwt (40.0 tons)	157 ppm	550 cwt (27.5 tons)
115 ppm	750 cwt (37.5 tons)	173 ppm	500 cwt (25.0 tons)
124 ppm	700 cwt (35.0 tons)	192 ppm	450 cwt (22.5 tons)

**Do Not** apply **BIOX-C** to potatoes in the field.

**Do Not** apply **BIOX-C** to seed potatoes.

**Do Not** allow **BIOX-C** vapors to come in contact with areas used for cutting potato seeds or with seed cutting equipment. If this happens, ventilate the area for 30 days before the seed is allowed into the facility. Wash seed cutting equipment with warm soap and water and air-dry for 48 hours.

**Do Not** use previously **BIOX-C** treated storage areas for temporarily holding seed potatoes until at least 60 days after treatment. Additionally, air system components (including ducts) and storage building must first be thoroughly ventilated before use for seed potato storage.

#### **STORAGE AND DISPOSAL**

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

**Pesticide Storage:** Store in a well-ventilated place. Keep container tightly closed. Keep out of direct sunlight and store at room temperature. Store locked up.

**Pesticide Disposal:** Wastes resulting from the use of the product may be disposed of on site or in accordance with applicable regional, national and local laws and regulations.

**Container Disposal:** Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

**For more information about PACE's products, their uses and benefits, consult your PACE representative or our website at [www.paceint.com](http://www.paceint.com).**

#### **NOTICE TO BUYER**

**IMPORTANT:** Read the information below before using this product. If the terms are not acceptable, you should return the unopened product container immediately for a complete refund.

#### **LIMITED WARRANTY, TERMS OF SALE, AND LIMITATION OF LIABILITY**

Upon purchase of this product, purchaser and user agree to the following terms:

**Warranty:** Pace International, LLC (the Company) warrants that this product conforms to the chemical description on the label in all material respects. To the extent consistent with applicable law, except as expressly stated in the foregoing sentence, the Company makes no further warranties and expressly disclaims any implied warranties of merchantability or fitness for a particular purpose and any representation or warranty.

**Terms of Sale:** The Company's directions for use of this product must be followed carefully. It is impossible to eliminate all risks inherently associated with use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, and the manner of use or application (including failure to adhere to label directions), all of which are beyond the Company's control. To the extent consistent with applicable law, all such risks are assumed by the user.

**Limitations of Liability:** To the extent consistent with applicable law, the exclusive remedy against the Company for any cause of action relating to the handling or use of this product is a claim for damages, and in no event shall damages or any other recovery of any kind exceed the price of the product which caused the alleged loss, damage, injury, or other claim. To the extent consistent with the applicable law, under no circumstances shall the Company be liable for any special, indirect, incidental, or consequential damages of any kind, including loss of profits or income. To the extent consistent with applicable law, the Company and the seller offer this product, and the purchaser and user accept this product, subject to the foregoing warranty, terms of sale, and limitation of liability, which may be varied or modified only by an agreement in writing signed on behalf of the Company by an authorized representative.

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The use of **BIOX-C** in agricultural crop protection is covered by US Patent 5,858,436 and other patents pending.

**BIOX** is a registered trademark of Pace International, LLC

Product of USA