



# Biox<sup>®</sup> -40EC Line Spray

P O S T H A R V E S T

## Potato Sprout Control

### ACTIVE INGREDIENTS:

Clove Oil .....40.0 %

INERT INGREDIENTS: (Potassium oleate, Glycerin, Isopropanol, water).....60.0 %

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.)

### PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

CAUTION: Harmful if swallowed. Causes serious eye irritation and skin irritation. Avoid contact with skin, eyes or clothing. Do not breathe mist, vapors, or spray: Product may cause allergy symptoms, asthma symptoms, or breathing difficulties if inhaled. May also cause drowsiness or dizziness. May cause damage to organs (nervous system, mucous membranes, liver, blood forming systems (bone marrow and spleen) through prolonged or repeated exposure. Toxic to aquatic life.

### FIRST AID

If Swallowed: Rinse mouth and then call a poison control center or doctor immediately for treatment advice.

If on Skin: Take off contaminated clothing. Wash with plenty of soap and water. Call a poison control center or doctor for treatment advice if skin irritation occurs.

If Inhaled: Move person to fresh air. Call a poison control center or doctor for treatment advice if experiencing respiratory symptoms. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible.

If in Eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so. Get medical advice/attention if eye irritation persists.

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

### PHYSICAL OR CHEMICAL HAZARDS

Combustible Liquid. Keep away from heat, sparks, open flame, and hot surfaces. NO SMOKING. Do not eat or drink while using this product.

IN CASE OF FIRE: USE DRY CHEMICAL, FOAM, or CO2 TO EXTINGUISH.

### 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. In case of inadequate ventilation wear respiratory protection.

### 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

This product is used for treating potatoes to suppress sprouting after storage and washing. This product will not, if used in accordance with the label, prevent wound periderm formation of potatoes.

### DO NOT APPLY IN THE FIELD.

IMPORTANT: Potatoes may deteriorate or otherwise be damaged by bacteria, fungi, insects, physiological aging and physical effects such as internal sprouting, environmental factors (such as humidity, temperature and airflow), and other causes which are unrelated to the application of this product, and which may occur whether or not this product is applied to the potatoes.

DO NOT USE ON SEED POTATOES: This product will kill emerging buds on potato tubers and therefore should NOT be used on potatoes that will be used for seed. The damage to the emerged buds is permanent although secondary buds may grow after 30 to 90 days. The time period of effective sprout suppression may vary depending on many conditions beyond the control of the manufacturer and/or seller, including, but not limited to, timing and method of application, variety and condition of stored crop, and mixtures or treatments with other chemicals. Wash contaminated equipment thoroughly with soap and hot water before use on seed potatoes.

EQUIPMENT: Biox-40EC is usually applied as a 0.8% to 1.8% emulsion wash on the drying table, or similar station, after the potatoes have been washed. Equipment should be set to apply said emulsion evenly on the potatoes moving across the rollers. Rolling or tumbling action greatly improves coverage compared to flat conveyor belts. Thorough coverage of the potato by the emulsion will provide the best results. For further information about application equipment, contact your local Biox Distributor Representative.

APPLICATION: Proper treatment solutions of 0.8% to 1.8% solutions (Column A) may be prepared by adding Column B to Column C:

Column A	Column B	Column C
*Emulsion concentration	Amount of Product (gallon)	Amount of Water (gallon)
0.83% (8,000 ppm)	1	50.0
1.00% (10,000 ppm)	1	40.0
1.30% (13,000 ppm)	1	30.0
1.58% (15,800 ppm)	1	25.0
1.95% (19,500 ppm)	1	20.0

\* These percentages are based on w/vol ratio and are rounded to the nearest 100 ppm.

5 or 30 Gallons  
(19 or 113.5 Liters)



Manufactured By:

Pace International LLC

5661 Branch Road, Wapato, WA 98951 800.936.6750

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NOTE: Thorough agitation at initial mixing is required – no further agitation needed after the emulsion is completely mixed. Water used for dilution should have a maximum hardness of 250 ppm.

For a flood application system, use a sufficient emulsified solution of the desired concentration and apply in a method to provide thorough coverage/wetting of the potatoes. The effectiveness of this product is not only based on uniform coverage but a minimum residue concentration of approximately 15 parts per million (ppm) should remain on the potatoes after treatment. In addition, the extent of peeper/sprout development, the cleanness of the potatoes at the time the solution is applied, the potato variety (russet vs. smooth skin types) and the wetness of the tubers after washing will also affect the performance of this product. It is suggested that residue analysis be conducted on a routine basis to ensure that the desired active ingredient is achieved on the potatoes.

## STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal. Product is toxic to aquatic life.

**Pesticide Storage:** Biox-40EC and the emulsified solution (once completely mixed) can be stored at room temperature. Keep container closed when not in use. Store tightly closed in a well-ventilated place. This product temporarily inhibits germination of seed potatoes.

**Pesticide Disposal:** Wastes resulting from the use of the product may be disposed of on site or at an approved waste disposal facility.

**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.

**HANDLING:** Always wash hands thoroughly after use. Use only outdoors or in a well-ventilated area.

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).

**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 or use 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 and is reasonably fit for the purpose referred to in the directions for use, subject to the exceptions noted below, which are beyond the Company's control. The Company makes no other representation or warranty, express or implied, concerning the product, including no implied warranty of merchantability or fitness for a particular purpose; no such warranty shall be implied by law, and no agent or representative is authorized to make any such warranty on the Company's behalf.

**Terms of Sale:** The Company's directions for use of this product should 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. All such risks are assumed by the user. Sale of this product is governed by the internal laws of the state of Washington; any action with respect to this product shall be brought exclusively in the state or federal courts located at Seattle, Washington U.S.A.

**Limitation of Liability:** 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. 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, and any such claims are hereby waived.

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-40EC 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

