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**Eco Sprout Guard (EP)**  
**2% ethylene**  
**Plant Growth Regulator**

**AGRICULTURAL** sprout suppressant gas

**CAUTION: EXPLOSIVE**

Flammable compressed gas  
Do not use in presence of open flame or spark  
Ground cylinders  
Secure cylinders in upright position  
Store below 50°C  
May be a suffocation hazard  
May cause frostbite  
Wear appropriate personal protective equipment



**READ THE LABEL AND TECHNICAL BULLETIN BEFORE USING**

**GUARANTEE:**

Compressed ethylene gas, 2% (by weight).

**REGISTRATION NUMBER 26851 PEST CONTROL PRODUCTS ACT**

**NET CONTENTS:** 13.6 kg

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# **Eco Sprout Guard (EP) 2% ethylene Plant Growth Regulator**

## **DIRECTIONS FOR USE**

### **General:**

Eco Sprout Guard is a plant growth regulator which reduces the sprout growth on tubers of Russet Burbank potatoes, during long-term storage prior to processing.

### **Method of Application:**

**Refer to the Eco Sprout Guard (EP) Plant Growth Regulator Technical Bulletin for application details, including rates and use restrictions.**

Eco Sprout Guard Plant Growth Regulator is applied as a gas to Russet Burbank potatoes in the storage building.

Eco Sprout Guard Plant Growth Regulator is delivered from a compressed gas cylinder into the ventilation airstream of a closed potato storage building. The mixture in the cylinder to be used (percentage ethylene, balance nitrogen or air) and delivery rate must be sufficient during each ventilation cycle to attain a target ethylene concentration of up to 4 ppm in the storage atmosphere.

The storage building should be relatively free of air-leaks to retain the gas between ventilation cycles, but need not be absolutely air-tight. The concentration of Eco Sprout Guard Plant Growth Regulator in the storage building must be monitored to ensure that it remains near the target level continuously throughout the storage term, for effective sprout control.

A supplementary information package is available to describe the appropriate equipment for delivery, control and monitoring of Eco Sprout Guard Plant Growth Regulator in potato storages. Information can also be obtained from the supplier or agents of Eco Sprout Guard Plant Growth Regulator.

## **PRECAUTIONS**

**KEEP OUT OF REACH OF UNAUTHORIZED PERSONNEL**

**DO NOT USE IN PRESENCE OF OPEN FLAME OR SPARK**

### **Personal Protective Equipment:**

When cylinders are being connected and disconnected from the application system, wear long-sleeved shirt, long pants, goggles or a face-shield, and appropriate gloves to protect from freezing burns in the event of a leak.

Respiratory protection should be worn for entry to storage chambers or control

rooms if the concentration of Eco Sprout Guard Plant Growth Regulator is unknown.

### **Fire Hazard Precautions:**

Eco Sprout Guard Plant Growth Regulator is a flammable compressed gas as delivered, and must be handled as a flammable gas until diluted below 0.3% in air (i.e. below 10% of the lower explosive limit). Store cylinders securely in an upright position, away from heat, spark or open flame. Handle compressed gas cylinders carefully. Ground cylinders.

Use only with delivery and regulating equipment approved for flammable gases, including flashback arresters and explosion-proof electrical equipment in any areas which may be exposed to flammable concentrations. Locate and eliminate all leaks of concentrated gas. Monitor gas levels in the vicinity of diluting and delivery apparatus. Maintain adequate ventilation in work areas and around delivery apparatus.

In the event of a gas leak, close valve if this can be accomplished safely. Eliminate all ignition sources and ventilate contaminated area thoroughly to atmosphere. Store leaking cylinders outside, prior to their return to supplier for disposal.

### **ENVIRONMENTAL HAZARDS:**

May cause premature abscission of leaves, flowers, or fruit of growing plants in very close proximity (<50 m) to ventilation exhaust vents of treated storage structures during treatment.

If this pest control product is to be used on a commodity that may be exported to the U.S. and you require information on acceptable residue levels in the U.S., visit CropLife Canada's web site at: [www.croplife.ca](http://www.croplife.ca).

### **FIRST AID:**

Exposure of bare skin to rapidly escaping gas, or contact with control apparatus during rapid gas delivery, may cause frostbite.

Exposure to concentrations of Eco Sprout Guard Plant Growth Regulator in air below 3% (30,000 ppm v/v) is not expected to cause adverse health effects. Not reported to be toxic or irritating to skin or eyes.

Exposure to extremely high concentrations (>20% or 200,000 ppm v/v) may cause oxygen deficiency, resulting in anaesthesia or possibly suffocation. Symptoms include drowsiness, narcosis or unconsciousness. While ensuring your own safety, eliminate contamination or move victim to fresh air. If breathing has ceased, trained personnel should IMMEDIATELY apply artificial respiration, or CPR if heart has stopped. Seek medical attention IMMEDIATELY.

Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

### **TOXICOLOGICAL INFORMATION:**

Treat symptomatically.

**DISPOSAL:**

For disposal, the empty cylinders and any cylinders containing unused or unwanted product may be returned to the point of purchase, i.e. picked up by the supplier in accordance with provincial requirements. It must be refilled by the supplier with the same product. Do not reuse this container for any other purpose.

In the event of a gas leak, close valve if this can be accomplished safely. Eliminate all ignition sources and ventilate contaminated area thoroughly to atmosphere. Store leaking cylinders outside, prior to their return to supplier for disposal. For additional details, contact the provincial regulatory agency or the manufacturer.

**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.

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