

5661 Branch Road Wapato, WA 98951 800.936.6750 www.paceint.com

Biox[®]-40EC **Line Spray**

POSTHARVEST

SAFETY DATA SHEET

1. PRODUCT & COMPANY IDENTIFICATION

Biox®-40EC Line Spray **Product Name:**

Product Code: 10329

Product Use: Potato Sprout Control Supplier: Pace International, LLC

Address: 5661 Branch Road, Wapato, WA 98951

Phone Number: 800-936-6750 (Monday-Friday, 7:00 a.m. - 4:00 p.m.)

Medical Emergency Phone Number: 888-271-4649 (PROSAR)

Transportation Emergency Phone Number: 800-424-9300 (CHEMTREC)

HAZARDS IDENTIFICATION

Classification:

Flammable, Category 4 Acute Oral, Category 4 Acute Inhalation, Category 5 Skin irritation, Category 2 Eye irritation, Category 2A

Respiratory Sensitization, Category 1A Specific Target Organ Toxicity (single

exposure), Category 3

Specific Target Organ Toxicity (repeated

exposure), Category 2 Aquatic Toxicity, Category 2

Hazard Symbols:





Hazard Statements:

DANGER

H227 Combustible liquid. H302 Harmful if swallowed. H333 May be harmful if inhaled. H315 Causes skin irritation. H319 Causes serious eye irritation. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness. H373 May cause damage to organs (nervous system, mucous membranes, liver, blood forming systems (bone marrow

and spleen) through prolonged or repeated

exposure. H401 Toxic to aquatic life.

Precautionary Statements:

Prevention Statements:

P210 Keep away from heat/sparks/open flames/hot surfaces. No

P264 Wash hands thoroughly after handling.

P270 Do not eat, drink or smoke when using this product. P280 Wear protective clothing, chemical resistant gloves, and safety glasses.

P260 Do not breathe mist, vapours, or spray.

P284 In case of inadequate ventilation wear respiratory protection.

P271 Use only outdoors or in a well-ventilated area.

P273 Avoid release to the environment.

Response Statements:

P370/378 In case of fire: Use dry chemical, foam, or CO₂ to extinguish.

P301/312 IF SWALLOWED: Call a POISON CENTER / doctor if you feel unwell.

P330 Rinse mouth.

P304/312 IF INHALED: Call a POISON CENTER / doctor if you feel

P302/352 IF ON SKIN: Wash with plenty of soap and water.

P321 Specific treatment See First Aide Section 4.

P332/313 If skin irritation occurs: Get medical advice/attention. P362/364 Take off contaminated clothing and wash it before reuse. P305/351/338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

P337/313 If eye irritation persists: Get medical advice/attention. P304/340 IF INHALED: remove person to fresh air and keep comfortable for breathing. P342/311 If experiencing respiratory symptoms: Call a POISON

CENTER/doctor for medical advice.

P314 Get medical advice/attention if you feel unwell.

Storage Statements:

P403/235 Store in a well-ventilated place. Keep cool.

P233 Keep container tightly closed.

P405 Store locked up.

Disposal Statements:

P501 Dispose of contents/container should be made in accordance with applicable regional, national and local laws and regulations.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient CAS# Concentration (w/w %)

8000-34-8 Clove Oil 40% Potassium Oleate, Glycerince, Isopropyl Alcohol balance





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4. FIRST AID MEASURES

General Have the product container, label or Safety Data Sheet with you when calling a poison control

Advice: center or physician, or going for treatment.

If on Skin: Take off contaminated clothing. Wash skin with plenty of soap and water. If redness, burning, or

irritation persists, get medical advice/attention. Wash contaminated clothing before reuse.

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. Get medical

advice/attention.

If Swallowed: Call a poison control center or doctor for treatment advice. 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: Move person to fresh air. If person is not breathing, call 911 or an ambulance, and then give

artificial respiration, preferably mouth-to-mouth, if possible.

5. FIRE FIGHTING MEASURES

Extinguishing Media: Flammable. Use a dry chemical, foam, or CO₂

Special Exposure Hazards: Strong oxidizers.

Special Protective Equipment /

Procedures for Firefighters: Wear self-contained breathing equipment.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Wear protective clothing, chemical resistant gloves, and safety glasses.

Environmental Precautions: In case of spill isolate area and deny entry to unnecessary personnel. Do not

allow product to enter sewers, lakes, streams or other bodies of water.

Containment / Clean-Up

Methods:

Stop spill at the source. Construct temporary dikes of dirt, sand, or other appropriate material to prevent spreading of the material. Absorb with an inert

material such as sand or vermiculite and place in an appropriate container for

disposal.

7. HANDLING & STORAGE

Handling: Avoid contact with skin and eyes. Good standards of hygiene should be maintained at all

times. Smoking, eating, and drinking are prohibited in the work area. For personal protection wear protective clothing, chemical resistant gloves, and safety glasses.

Storage: Store in a cool, dry area at room temperature, and away from direct sunlight. Keep

container tightly closed when not in use. Keep out of reach of children and livestock.

Store locked up.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits: Clove Oil CAS# 8000-34-8

Not established

Isopropanol CAS# 67-63-0

400 ppm (OSHA 8-hr PEL, Cal/OSHA, NIOSH REL) 200 ppm ACGIH TLV

Engineering Controls: Local exhaust ventilation maybe necessary to control air contaminants to their

exposure limits. The use of local ventilation is recommended to control emissions near the source. Provide mechanical ventilation for confined

spaces.

Personal Protective

Equipment :

Clothing: Wear protective clothing and chemical resistant gloves when handling.



Eye Protection: Wear safety glasses. Eye fountain and washing facilities

should be present at work area.

Respiratory Protection: Not normally required. A NIOSH-approved respirator with organic vapor filter may be used in misty environments without proper

ventilation.





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9. PHYSICAL & CHEMICAL PROPERTIES

Physical state: Liquid

Appearance: Clear yellow liquid Upper/Lower flammability Not available

limits:

Odor:Clove spiceVapor pressure:Not availableOdor threshold:Not availableVapor density: (air =1)Not availablepH:8.0-10.0Specific Gravity: ($H_2O = 1$)1.02Matting/Fragging pointsNot available

Melting/Freezing point:Not availableSolubility:DispersibleBoiling point:No data availablePartition coefficientNot available

(n-octanol-water):

Flash point:104.5° F(40° C)Auto-ignition temperature:Not availableEvaporation rate:Not availableDecomposition temperature:Not availableFlammability (solid, gas):Not applicableViscosity:Not available

10. STABILITY & REACTIVITY

Reactivity hazards: None known

Chemical stability:Stable at ambient conditionsConditions to avoid:Heat and open flames.Incompatible materials:Strong oxidizing agents.

Hazardous decomposition Acrid smoke and fumes may form when heated to decomposition.

products:

11. TOXICOLOGICAL INFORMATION

Acute toxicity: Acute Oral: LD₅₀ (estimate): > 2400 mg/kg Based on Ingredients

Acute Dermal: LD_{50} (estimate): > 5000 mg/kg Based on Ingredients Inhalation: LC_{50} (estimate): > 20 mg/L Based on Ingredients

Skin corrosion/irritation: Causes skin irritation
Eye damage/irritation: Causes serious eye irritation

Respiratory/Skin

sensitization: May cause respiratory and digestive tract irritation.

Germ cell mutagenicity: Not available

Carcinogenicity: No carcinogenic effects are expected due to product being comprised of FDA-

approved food-grade ingredients.

Reproductive toxicity: Occasional workplace exposure is not expected to present a hazard.

Target organ effects: With repeated or prolonged exposure Clove oil is known to be toxic to nervous system

and mucous membranes.

Aspiration hazard: Material does not present an aspiration hazard.

Potential health effects: May cause redness and reversible irritation to eyes. May cause skin irritation.

12. ECOLOGICAL INFORMATION

Toxicity: LC₅₀ (96-hr) fish: > 2 mg/L (estimate) Based on Ingredients

Acute Toxicity: 96 hr LC50 (fathead minnow): > 1000 μl/L

48 hr LC50 (golden orfe): 8970 - 9280 mg/L

96 hr LC50 (daphnid): > 1000 μl/L

Persistence/ degradability: Not available
Bioaccumulative potential: Not available
Mobility in soil: Not available
Other adverse effects: Toxic to aquatic life

13. DISPOSAL CONSIDERATIONS

Disposal methods: Recover or recycle if possible. Do not discharge into sewers, lakes, streams, or other

bodies of water. Disposal should be made in accordance with applicable regional, national and local laws and regulations. Consult appropriate regulatory officials for information on disposal, keeping in mind that local regulations may be more stringent

Isopropanol

than regional or national requirements.



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14. TRANSPORT INFORMATION

DOT **IMDG** IATA

Domestic/DOT: Not regulated-Product is a combustible liquid exempt from DOT hazardous shipping requirements

under 49 CFR 173.150(f) when shipped in non-bulk packaging.

UN number: Not applicable UN 1993 Not applicable Proper shipping name: Flammable liquid, n.o.s. Not regulated Not regulated

(Isopropanol)

Hazard class(es): Not applicable 3 Not applicable Packing group: Not applicable Ш Not applicable

Marine Pollutant: Not applicable

Special precautions: None

15. REGULATORY INFORMATION

Biox-40EC Line Spray qualifies as a "minimum risk pesticide" and is exempt from U.S. FIFRA:

EPA registration requirements under section 25(b) of FIFRA.

Contains no chemicals subject to SARA Title III Section 313 in quantities sufficient to **SARA 313:**

trigger reporting requirements.

TSCA: All components of this product are included or exempt from inclusion in EPA's Toxic

Substances Control Act (TSCA) Chemical Substance Inventory.

WHMIS: This product has been classified in accordance with the hazard criteria of the CPR and the

SDS contains all of the information required by the CPR.

16. OTHER INFORMATION

HMIS Ratings: Health - 1

Flammability – 2

Reactivity - 0



The information provided in this Safety Data Sheet (SDS) is provided in good faith and believed to be accurate at the time of preparation of the SDS. However, to the extent consistent with applicable law, Pace International, LLC and its subsidiaries or affiliates extend no warranties, make no representations, and assume no responsibility as to the accuracy, suitability, or completeness of such information. Additionally, to the extent consistent with applicable law, neither Pace International, LLC nor any of its subsidiaries or affiliates represents or guarantees that this information or product may be used without infringing the intellectual property rights of others. Except to the extent a particular use and particular information are expressly stated on the product label, it is the users' own responsibility to determine the suitability of this information for their own particular use of this product. If necessary, contact Pace International, LLC) to confirm that you have the most current product label and SDS.

This Safety Data Sheet (SDS) serves different purposes than and DOES NOT REPLACE OR MODIFY THE EPA-APPROVED PRODUCT LABEL (attached to and accompanying the product container). This SDS provides important health, safety, and environmental information for employers, employees, emergency responders and others handling large quantities of the product in activities generally other than product use as required by the Occupational Health and Safety Act (29 CFR 1910.1200, "Hazcom"). The product label provides information specifically for product use in the ordinary course. Use, storage and disposal of pesticide products is regulated by the EPA under the authority of FIFRA through the product label. All necessary hazard classification and appropriate precautionary use, storage, and disposal information is set forth on that label or labeling accompanying the pesticide or to which reference is made on the label. It is a violation of federal law to use an EPA-registered pesticide product in any manner inconsistent with its labeling.

SDS preparation date: November 10, 2016 Replaces MSDS dated: May 26, 2015

Changes since last Listing of ingredients

revision: