

SAFETY DATA SHEET

1. PRODUCT & COMPANY IDENTIFICATION

Product Name: Biox[®]-C
Product Code: 10023
Product Use: Aerosol Grade – Potato Sprout & Silver Scurf 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)

2. HAZARDS IDENTIFICATION

Classification:
 Acute Oral, Category 4
 Acute Dermal, Category 5
 Acute Inhalation, Category 5
 Skin irritation, Category 2
 Eye irritation, Category 2B
 Respiratory Sensitization, Category 1
 Specific Target Organ Toxicity- Single exposure, Category 3
 Specific Target Organ Toxicity – Repeated exposure, Category 2
 Acute Aquatic Toxicity, Category 3

Hazard Symbols:



Hazard Statements:

DANGER
 H302 Harmful if swallowed.
 H313 May be harmful in contact with skin
 H333 May be harmful if inhaled.
 H315 Causes skin irritation.
 H320 Causes eye irritation.
 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
 H335 May cause respiratory irritation.
 H373 May cause damage to organs (mucous membranes) through prolonged or repeated exposure.
 H402 Harmful to aquatic life.

Precautionary Statements:

Prevention Statements:

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.
 H260 Do not breathe fume/gas/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:

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 unwell.
 P304/340/314 IF INHALED: remove person to fresh air and keep comfortable for breathing. Get medical advice/attention if you feel unwell.
 P342/311 If experiencing respiratory systems: Call a Poison Center/doctor.
 P302/352 IF ON SKIN: Wash with plenty of soap and water.
 P321 Specific treatments see Section 4 First Aid Measures.
 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. Continue rinsing.
 P337/313 If eye irritation persists: Get medical advice/attention.

Storage Statements:

P403/233 Store in a well-ventilated place. 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

| <u>Ingredient</u> | <u>CAS #</u> | <u>Concentration (w/w %)</u> |
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| Contains no hazardous ingredients in quantities of 1% or greater in its formulation. | | |
| Clove Oil | 8000-34-8 | 100 % |



4. FIRST AID MEASURES

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| General | Have the product container, label or Safety Data Sheet with you when calling a poison control center or physician, or going for treatment. |
| Advice: | |
| 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

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| Extinguishing Media: | Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. |
| Special Exposure Hazards: | None known. |
| Special Protective Equipment / Procedures for Firefighters: | Wear self-contained breathing equipment. |

6. ACCIDENTAL RELEASE MEASURES

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| 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

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| 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. Keep container tightly closed when not in use. Keep out of reach of children and livestock. Store in locked location. |

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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| Occupational Exposure Limits: | Clove Oil CAS# 8000-34-8 Not established. |
| 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. |



9. PHYSICAL & CHEMICAL PROPERTIES

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| Physical state: | Liquid | | |
| Appearance: | Pale yellow to brownish liquid | Upper/Lower flammability limits: | Not available |
| Odor: | Clove spice | Vapor pressure: | .009 @ 20°C |
| Odor threshold: | Not available | Vapor density: (air =1) | Not available |
| pH: | Not available | Specific Gravity: (H₂O = 1) | 1.04 |
| Melting/Freezing point: | Not available | Solubility: | insoluble |
| Boiling point: | 482°F (250°C) | Partition coefficient (n-octanol-water): | Not available |
| Flash point: | >200°F (93°C) | Auto-ignition temperature: | Not available |
| Evaporation rate: | Not available | Decomposition temperature: | Not available |
| Flammability (solid, gas): | Not applicable | Viscosity: | Not available |

10. STABILITY & REACTIVITY

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| Reactivity hazards: | None known |
| Chemical stability: | Stable at ambient conditions |
| Conditions to avoid: | None known |
| Incompatible materials: | Strong oxidizing agents. |
| Hazardous decomposition products: | Acrid smoke and fumes may form when heated to decomposition. |

11. TOXICOLOGICAL INFORMATION

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| Acute toxicity: | Acute Oral: | LD ₅₀ (estimate): > 2650 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 eye irritation | | |
| Respiratory/Skin sensitization: | May cause allergy or asthma symptoms or breathing difficulties if inhaled. Respiratory 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: | This substance may cause damage to mucous membranes. | | |
| Aspiration hazard: | Material does not present an aspiration hazard. | | |
| Potential health effects: | May cause irritation to eyes and skin. | | |

12. ECOLOGICAL INFORMATION

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| Toxicity: | LC ₅₀ (96-hr) fish: > 18 mg/L (estimate) | Based on Ingredients |
| Persistence/ degradability: | Not available | |
| Bioaccumulative potential: | Not available | |
| Mobility in soil: | Not available | |
| Other adverse effects: | Harmful to aquatic life. | |

13. DISPOSAL CONSIDERATIONS

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| 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 than regional or national requirements. |
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14. TRANSPORT INFORMATION

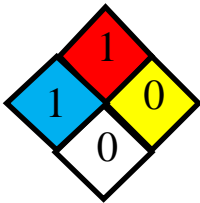
| | <u>DOT</u> | <u>IMDG</u> | <u>IATA</u> |
|------------------------------|----------------|----------------|----------------|
| UN number: | Not applicable | Not applicable | Not applicable |
| Proper shipping name: | Not regulated | Not regulated | Not regulated |
| Hazard class(es): | Not applicable | Not applicable | Not applicable |
| Packing group: | Not applicable | Not applicable | Not applicable |
| Marine Pollutant: | Not applicable | | |
| Special precautions: | None | | |

15. REGULATORY INFORMATION

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| FIFRA: | Biox-C qualifies as a "minimum risk pesticide" and is exempt from U.S. EPA registration Requirements under section 25(b) of FIFRA. |
| Organic Status: | This product meets the standards established by the USDA National Organics Program and has been approved for use on organically-grown fruit. |
| SARA 313: | Contains no chemicals subject to SARA Title III Section 313 in quantities sufficient to 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

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| HMIS Ratings: | Health – 1 | Flammability – 1 | Reactivity – 0 |
| NFPA Ratings: | | | |



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.

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| SDS preparation date: | May 26, 2015 | Replaces MSDS dated: | December 10, 2012 |
| Changes since last revision: | New format to SDS | | |

