

5661 Branch Road Wapato, WA 98951 800 936 6750 www.paceint.com



POSTHARVEST

SAFETY DATA SHEET

1. PRODUCT & COMPANY IDENTIFICATION

Product Name: Biox® -C EPA Exempt 25(b)

Product Code: 10023

Product Use: Aerosol Grade - Potato Sprout & Silver Scurf Control

For Agriculture Use Only **Product Restrictions:** Manufacturer/Importer/Supplier/Distributor information Manufacturer: Pace International, LLC

5661 Branch Road, Wapato, WA 98951 Address:

Phone Number: 800-936-6750 (Monday-Friday, 7:00 a.m. - 4:00 p.m.) Medical Emergency Phone Number: 888-271-4649 (PROPHARMA/PROSAR) Transportation Emergency Phone Number: 800-424-9300 (CHEMTREC)

2. HAZARDS IDENTIFICATION

GHS Classification in accordance with 29 CFR 1910 (2012 OSHA Hazard Communication Standard)

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification:

Physical Hazards, Not classified

Health Hazards

Skin corrosion / irritation, Category 2 Serious eye damage / eye irritation,

Category 2

Skin Sensitization, Category 1

Specific Target Organ Toxicity -single exposure, Category 3 respiratory tract

irritation

Aspiration Hazard, Category 1

Hazard Symbols:





Signal Word: DANGER

Hazard Statements:

H319 Causes serious eye irritation. H335 May cause respiratory irritation.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H304 May be fatal if swallowed and enters

airways.

Other Hazards:

Precautionary Statements: Prevention Statements:

P264 Wash hands thoroughly after handling.

P280 Wear protective clothing, chemical resistant gloves, and safety glasses. Fogging applicators must wear a NIOSH-approved

full-face respirator with organic vapor filter.

P261 Avoid breathing fume/gas/mist/vapors/spray.

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

P272 Contaminated work clothing should not be allowed out of the

workplace.

Response Statements:

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

P333/313 If skin irritation or rash occurs: Get medical

advice/attention.

P321 Specific treatments see Section 4 First Aid Measures on SDS. 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. P304/340 IF INHALED: Remove victim to fresh air and keep

comfortable for breathing.

P312 Call a POISON CENTER/doctor if you feel unwell. P301/310 IF SWALLOWED: Immediately call a POISON

CENTER/doctor for treatment advice.

P331 Do NOT induce vomiting.

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.

None known.

None known.

Hazard(s) not otherwise classified (HNOC):

Supplemental information

The product is exempt from FIFRA regulation under 40 CFR 152.25(f) and is considered a minimum risk pesticide.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient CAS# Concentration (w/w %) Oils, clove 8000-34-8 100%

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume. *US GHS: The exact percentage (concentration) of composition has been withheld as a trade Composition

secret in accordance with paragraph (i) of §1910.1200. comments:







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. You may also contact PROPHARMA (PROSAR)

1-888-271-4649 for emergency medical treatment information.

IF ON SKIN: Take off immediately all contaminated clothing. Wash skin with plenty of soap and Skin contact:

water/shower for 15 – 20 minutes. If skin irritation or rash occurs: Get medical advice/attention.

Wash contaminated clothing before reuse.

Eye contact: IF IN EYES: Hold eye open and cautiously rinse slowly and gently with water for 15 – 20

minutes. Remove contact lenses if present and easy to do after the first 5 minutes, then

continue rinsing eye. If eye irritation persists: Get medical advice/attention.

IF SWALLOWED: Immediately call a POISON CENTER or doctor for medical advice. Do not Ingestion:

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: Remove person to fresh air and keep comfortable for breathing. If person is not Inhalation:

breathing, call 911 or an ambulance, and then give artificial respiration, preferably mouth-to-

mouth, if possible. Call a POISON CENTER/doctor if you feel unwell.

Most important Symptoms / effects, acute Aspiration may cause pulmonary oedema and pneumonitis. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause respiratory irritation. Skin irritation., May cause redness and pain. May cause an allergic skin reaction.

Dermatitis. Rash.

and Delayed:

Indication of any immediate medical attention and special treatment

Provide general supportive measures and treat symptomatically. Symptoms may be delayed.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media: **Unsuitable Extinguishing**

Media:

needed:

Special Hazards Arising from

the Chemical:

products: Special protective equipment

and precautions for firefighters:

Fire-fighting equipment/instructions:

Hazardous combustion

Specific methods:

General fire hazards:

Water fog. Alcohol resistant foam. Dry chemical powder. Carbon dioxide. Do not use water jet as an extinguisher, as this will spread the fire.

During fire, gases hazardous to health may be formed.

May include and are not limited to: Oxides of carbon. Oxides of nitrogen.

Self-contained breathing apparatus and full protective clothing must be worn

in case of fire.

Move containers from fire area if you can do so without risk.

Use standard firefighting procedures and consider the hazards of other

involved materials.

No unusual fire or explosion hazards noted.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during cleanup. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up: Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

Environmental precautions:

Avoid discharge into drains, water courses or onto the ground. For waste disposal, see section 13 of the SDS.







HANDLING & STORAGE

Avoid contact with eyes, skin, and clothing. Provide adequate ventilation. Precautions for safe handling:

Wear appropriate personal protective equipment. Wash thoroughly after handling. Use good industrial hygiene practices in handling this material. Do

not eat, drink or smoke when using this product.

Conditions for safe storage, Store locked up. Keep container tightly closed and upright when not in use. including any incompatibilities:

Store away from incompatible materials (see Section 10 of the SDS). Keep

out of reach of children and livestock.

EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits: **Biological limit values** Appropriate engineering

controls

No exposure limits are indicated for the ingredient (s). No biological exposure limits noted for the ingredient(s).

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Individual protection measures, such as personal protective equipment

Wear safety glasses with side shields (or goggles). Eye wash station and Eye/face protection

washing facilities should be available.

Skin protection Hand protection

Other

Respiratory protection

Impervious gloves. Confirm with reputable supplier first.

Wear appropriate chemical resistant clothing. As required by employer code. Where exposure guideline levels may be exceeded, use an approved NIOSH respirator. Respirator should be selected by and used under the direction of a trained health and safety professional following requirements found in OSHA's

respirator standard (29 CFR 1910.134)

Thermal hazards General hygiene considerations

Use good industrial hygiene practices in handling this material. Do not eat, drink or smoke when using this product. Wash thoroughly after handling.

Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be allowed out of the

workplace.

PHYSICAL & CHEMICAL PROPERTIES

Physical state: Liquid Upper/Lower flammability Not available

limits:

0.009 @ 20°C mm/Hg Appearance / Color: Pale yellow to Vapor pressure:

brownish Odor: Clove Vapor density: (air =1) Not available Specific Gravity: (H₂O = 1) Odor threshold: Not available 1.04 Solubility: Insoluble Not available Melting/Freezing point: Not available Partition coefficient Not available

(n-octanol-water):

Auto-ignition temperature: **Pour Point:** Not available Not available Initial boiling point and 482°F (250°C) **Decomposition temperature:** Not available

boiling range: Flash point: >200.0°F(>93.3°C) Not available Viscosity: **Evaporation rate:** Not available **Explosive properties:** Not explosive Flammability (solid, gas): Not applicable Oxidizing properties: Not oxidizing

10. STABILITY & REACTIVITY

Reactivity hazards: This product may react with strong oxidizing agents.

Possibility of Hazardous No dangerous reaction known under conditions of normal use.

Reactions:

Chemical stability: Material is stable under normal conditions.

Conditions to avoid: Avoid heat, sparks, open flames and other ignition sources. Do not mix with

other chemicals

Incompatible materials: Strong oxidizing agents.

Hazardous decomposition May include and are not limited to: Oxides of carbon. Oxides of nitrogen.

products:



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11. TOXICOLOGICAL INFORMATION

Routes of exposure Eye, Skin contact, Inhalation, Ingestion.

Information on likely routes of exposure

Inhalation May cause irritation to the respiratory system.

Skin corrosion / irritation:

Causes skin irritation. May cause an allergic skin reaction.

Eye damage / Causes serious eye irritation.

irritation:

Ingestion Droplets of the product aspirated into the lungs through ingestion or vomiting may

cause a serious chemical pneumonia. May cause stomach distress, nausea or

Symptoms related to the physical, chemical and toxicological

Causes eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause respiratory irritation. Skin irritation. May cause an allergic

skin reaction. Dermatitis. Rash.

characteristics

Information on toxicological effects May be fatal if swallowed and enters airways.

Components **Species Test Results**

Oils, clove (CAS# 8000-34-8)

Acute Dermal

LD50 Rabbit 5000 mg/kg, RTECS

Inhalation

LC50 Not available

Oral

LD50 Rat 2650 mg/kg, RTECS

Skin corrosion/irritation: Causes skin irritation.

Not available **Exposure minutes** Erythema value Not available Oedema value Not available

Serious eye damage/eye

Causes serious eye irritation.

Irritation:

Corneal opacity value Not available Iris lesion value Not available Conjunctival Not available reddening value

Conjunctival oedema Not available value Recover days Not available

Respiratory sensitization: Not a respiratory sensitizer. Skin sensitization: May cause an allergic skin reaction.

Germ cell mutagenicity: No data available to indicate product or any components present at greater than

0.1% are mutagenic or genotoxic.

Carcinogenicity: See below.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not listed

Reproductive toxicity: This product is not expected to cause reproductive or developmental effects.

Teratogenicity: Not available.

Specific target organ May cause respiratory irritation.

toxicity - single exposure:

Specific target organ

Not classified.

toxicity repeated exposure:

Aspiration hazard: May be fatal if swallowed and enters airways.

12. ECOLOGICAL INFORMATION

Ecotoxicity Not available.

Persistence/ degradability: No data is available on the degradability of this product.

Bioaccumulative potential No data available. Mobility in soil: No data available. Mobility in general: Not available.

Other adverse effects: No other adverse environmental effects (e.g. ozone depletion, photochemical

ozone creation potential, endocrine disruption, global warming potential) are

expected from this component.





13. DISPOSAL CONSIDERATIONS

Disposal instructions: Collect and reclaim or dispose in sealed containers at licensed waste disposal site.

Dispose of contents/container in accordance with local/regional/national/international

regulations.

Local disposal Dispose in accordance with all applicable regulations.

Regulations

Hazardous waste code: This product, in its original form and concentration, would not designate as a US

federal hazardous waste when disposed

Waste from residues / unused products:

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe

manner (see: Disposal instructions).

Contaminated Since emptied containers may retain product residue, follow label warnings even after

packaging: container is emptied. Empty containers should be taken to an approved waste

handling site for recycling or disposal.

14. TRANSPORT INFORMATION

U.S. Department of

Transportation (DOT) Not regulated as dangerous goods.

15. REGULATORY INFORMATION

US FEDERAL This product is a "Hazardous Chemical" as defined by the OSHA Hazard

REGULATIONS Communication Standard, 29 CFR 1910.1200.

This product is exempt from FIFRA regulation under 40 CFR 152.25(F) and is

considered a minimum risk pesticide.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency Release Notification

Not regulated.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052) Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance No SARA 311/312 Hazardous chemical Yes

Classified Hazard Skin corrosion or irritation

Categories Serious eye damage or eye irritation.

> Respiratory or skin sensitization. Specific target organ toxicity (single or

repeated exposure) Aspiration hazard.

SARA 313 (TRI reporting) Not regulated.

OTHER FEDERAL REGULATIONS

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

US STATE REGULATIONS

US - Texas Effects Screening Levels: Listed substance

Oils, clove (CAS# 8000-34-8) Listed

US. California Proposition 65

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

Inventory status

Country(s) or region Inventory name On inventory (yes/no)*

Domestic Substances List (DSL) Canada Yes Canada Non-Domestic Substances List (NDSL) No United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)





16. OTHER INFORMATION

HMIS Ratings: Health – 2

NFPA Ratings:

2
0

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, 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, 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. 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) may provide more information than the product label but does not replace or modify the product labeling (attached to and accompanying the product container). The product SDS and the product label both provide consistent and important health, safety, and environmental information as required by the Occupational Health and Safety Act (29 CFR 1910.1200, "Hazcom"). This requirement covers employers, employees, emergency responders, users and others handling the product. All necessary hazard classification and appropriate precautionary, use, storage, and disposal information are set forth on the labeling and the SDS.

SDS preparation date: May 28, 2021 Replaces MSDS dated: May 26, 2015

Changes since last Several GHS updates through-out SDS all Version: 3

revision: sections.

