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Biox-COMBO

POSTHARVEST

MATERIAL SAFETY DATA SHEET

1. PRODUCT & COMPANY IDENTIFICATION

Product Name: Biox-COMBO

Company: Pace International, LLC

Address: Office Manufacturing / Distribution

 1201 3rd Avenue, Suite 5450
 5661 Branch Road

 Seattle, WA 98101
 Wapato, WA 98951

Emergency Phone Number: 800.424.9300 (CHEMTREC)

2. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Components

CAS#	Component	%	Exposure Limits
101-21-3	chlorpropham	56.5	Not established

Other Components

CAS#	Component	%	Exposure Limits
8000-34-8	clove oil	43.5	Not established

3. HAZARDS IDENTIFICATION

Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

4. FIRST AID MEASURES

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. Call a poison control center or doctor

for treatment advice.

If on Skin: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 – 20 minutes.

Call a poison control center or doctor for treatment advice.

If Inhaled: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial

respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for further

treatment advice.

If Swallowed: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of

water if able to swallow. 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.

5. FIRE FIGHTING MEASURES

Extinguishing Media: Dry chemical, CO₂,

Special Exposure Hazards: Keep away from strong oxidizers.

Special Protective Equipment for Firefighters: Wear self-contained breathing equipment.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: See Section 8 for personal protection measures.

Environmental Precautions: Do not allow product to enter sewers, lakes, streams or other bodies of water.

Methods for Cleaning Up: Absorb liquid with sawdust or other absorbent material and incinerate or dispose

of in an approved disposal area.



7. HANDLING & STORAGE

Handling: Good standards of hygiene should be maintained at all times. Smoking, eating, and drinking is

prohibited in the work area. Avoid breathing fog. For personal protection, see section 8.

Storage: Keep away from strong bases and oxidizers. Avoid storing below 40°F (4°C). Keep container tightly

closed when not in use.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Protective Clothing: Long sleeved shirt and long pants, shoes and socks, chemical resistant gloves such as

PVC, nitrile or butyl rubber.

Respiratory Protection: For entry into enclosed areas treated with fog, handlers must wear a respirator with an

organic-vapor removing cartridge with a pre-filter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C), or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G), or a NIOSH approved respirator with an organic vapor (OV) cartridge or canister with any N, R, P or HE pre-filter. If the enclosed area contains less than 19.5% oxygen, the respirator must be a supplied-air respirator (MSHA/NIOSH approval number prefix TC-21C) or a self-contained breathing apparatus (SCBA,

MSHA/NIOSHA approval number prefix TX-13F).

Eye Protection: Wear chemical goggles, safety glasses or face shield. Eye fountain and washing facilities

should be present at work area.

9. PHYSICAL & CHEMICAL PROPERTIES

Appearance: light yellow

Odor: clove

Boiling Point: $> 212^{\circ}F (100^{\circ}C)$

Flash Point: 275 - 279°F (135 - 137°C)

Flammable Limits: Not available Explosive Properties: Not explosive

Oxidizing Properties: reacts with zinc and potassium permanganate

Vapor Pressure: No data available

pH (@ 25°C): 6.60

Specific Gravity: 1.128 ($H_2O=1$) Solubility in Water: Insoluble Viscosity: 58.6 mm²/sec

10. STABILITY & REACTIVITY

Conditions/Materials to Avoid: Strong bases and oxidizers.

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

11. TOXICOLOGICAL INFORMATION

Acute Oral: LD_{so} oral (rat): > 2000 mg/kg Acute Dermal: LD_{so} dermal (rat): > 2000 mg/kg

Inhalation: LC_{50} (rat): > 4.67 mg/L

Eye Irritation: Slight irritant (EPA Category III)
 Skin Irritation: Moderate irritant (EPA Category III)
 Sensitization: Considered to be a contact sensitizer.

12. ECOLOGICAL INFORMATION

No data available on the product as formulated. Information is hereby provided for individual formula components previously identified as hazardous:



chlorpropham

Acute toxicity: Northern bobwhite quail, LD₅₀: > 5620 mg/kg

Bluegill sunfish, LC_{50} (96h): 6.8 ppm Rainbow trout, LC_{50} (96h): 5.7 ppm Daphnia magna, EC_{50} (48h): 3.7 ppm

Chlorpropham is considered practically non-toxic to game birds and honey bees, and moderately toxic to fish and freshwater invertebrates.

13. DISPOSAL CONSIDERATIONS

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

Container Disposal: Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Offer for reconditioning if appropriate.

14. TRANSPORT INFORMATION

Not regulated for transport.

15. REGULATORY INFORMATION

CA Prop. 65: This product contains no chemicals known to the State of California to cause cancer, birth

defects or other reproductive harm.

FIFRA: This product is registered with the U.S. EPA under registration number 64864-62.

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

MSDS contains all of the information required by the CPR.

16. OTHER INFORMATION

HMIS Ratings: Health -2 Flammability -1 Reactivity -0

The information herein is believed to be accurate and represents the best information currently available. However, Pace International LLC makes no warranty of merchantability or any other warranty, express or implied, with respect to such information, and assumes no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes.

MSDS Revision Date: 12/01/08

Supersedes: N/A

