

**MATERIAL SAFETY DATA SHEET**

ECO-BRAN TM SELECTIVE INSECTICIDE

FOR GRASSHOPPERS, CRICKETS, CUTWORMS, ARMY WORMS, DARKLING  
GROUND BEETLES, MOLE CRICKETS, EARWIGS, & SOW BUGS

**SECTION 1**

*IDENTIFICATION OF PRODUCT*

MANUFACTURER'S NAME: Peacock Industries

ADDRESS: Box 750, Hague Saskatchewan, Canada SOK-1X0

TRADE NAME OR SYNONYMS: Eco-Bran

CHEMICAL NAME OR SYNONYMS: Carbaryl, 1-Naphthyl N-methylcarbamate; 1-Naphtholol methylcarbamate

CHEMICAL FAMILY: Carbamate Insecticide

**SECTION II**

*HAZARDOUS INGREDIENTS OF MIXTURES*

**COMPONENT**

- I. % THRESHOLD LIMIT VALUE (Units)
- II. Carbaryl; (1-Naphthyl N-methylcarbamate)
- III. (CAS: 63-25-2)
- IV. 2.0 ACGIH TLV-TWA: 5mg/m<sup>3</sup>
- V. MSGA & OSHA STD-air-TWA: 5mg/m<sup>3</sup>
- VI. NIOSH sol to Carbaryl-air-TWA: 5mg/m<sup>3</sup>
- VII. Other Ingredients (inert/non-hazardous)
- VIII. 98.0 Nuisance Dust: ACGIH & OSHA :
- IX. Respirable dust: 5mg/m<sup>3</sup>,
- X. Total dust: 1C(ACGIH)-15(OSHA)mg/m<sup>3</sup>

**SECTION III**

*PHYSICAL DATA*

- I. APPEARANCE AND ODOR: White flakes with a mild petroleum odour
- II. BOILING POINT: N/A
- III. VAPOR PRESSURE: N/A
- IV. VAPOR DENSITY: N/A
- V. SOLUBILITY IN WATER: Insoluble
- VI. SPECIFIC GRAVITY: N/A
- VII. BULK DENSITY: 15-20lbs. /ft<sup>3</sup>
- VIII. PERCENT VOLATILE: N/A
- IX. EVAPORATION RATE: N/A

## **SECTION IV**

### *FIRE AND EXPLOSION HAZARD DATA*

- FLASH POINT: N/A (does not flash)
- flammable LIMITS: N/A

### **FIRE EXTINGUISHER MEDIA:**

Considered non-combustible; use medium appropriate to surround fire, CO/2 or dry chemical for small fires; Water Spray or Foam for large fires.

### **SPECIAL FIRE FIGHTING PROCEDURES:**

Smoke and fumes from fire may contain hazardous components.  
Use self-contained breathing apparatus and full protective clothing.  
Keep non-essential personnel away from immediate fire areas, and out of any fall-out or run-off areas.

### **UNUSUAL FIRE AND EXPLOSION HAZARDS:**

If water is used to fight fire or cool containers, contain run-off by diking to prevent contamination of water supplies. Dusts may form explosive mixtures with air; avoid use of heavy water stream.

## **SECTION V**

### *REACTIVITY DATA*

**STABILITY:** Stable; conditions to avoid: Extended storage at temperature above 100 degrees Fahrenheit.

**INCOMPATIBILITIES** (Materials to avoid): Alkalies, strong acids and oxidizing agents

**HAZARDOUS DECOMPOSITION PRODUCTS:** Oxides of nitrogen, carbon sulfur, Minute amounts of methyl isocya may be released in fire conditions.

**HAZARDOUS POLYMERIZATION:** Will not occur; Conditions to Avoid: None known

## **SECTION VI**

### *HEALTH HAZARD DATA*

### **EFFECTS OF OVEREXPOSURE:**

Routes of Entry: Ingestion, inhalation, eyes and skin contact. Most Likely Route of Entry: dermal. Product is considered to be of low toxicity. Principal is its reversible cholinesterase inhibition potential, irritation of eyes, skin and mucous membranes, nausea, vomiting, abdominal pain, diarrhea, pin-point pupils, blurred vision and profuse sweating, salivation, tremor, muscle twitching and temporary paralysis, and in severe poisoning, respiratory depression and convulsions may occur.

**EMERGENCY AND FIRST AID PROCEDURES:**

Call a physician immediately in all cases of suspected poisoning.

**Ingestion:** Drink 1 or 2 glasses of water and induce vomiting. Never induce vomiting or give anything by mouth to an unconscious person. Keep head lower than chest to avoid aspiration into lungs. Call physician immediately.

**Eyes:** Flush with running water for at least 15 minutes while holding eyelids open to help flush out material. Get medical attention.

**Skin:** Remove all contaminated clothing. Wash skin and hair thoroughly with soap and water. Wash clothing before reuse. If irritation persists, get medical attention.

**Inhalation:** Remove to fresh air. If irritation persists, get medical attention.

**Note to physician:** This product contains a cholinesterase inhibitor. Atropine is antidotal, treat symptomatically. Narcotics and other sedatives should not be used: 2 PAM is not recommended. To help confirm diagnosis, urine samples may be collected within 24 hours, and frozen pending analysis.

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:**

Overexposure may aggravate existing chronic cardiovascular or respiratory disease, leading to respiratory difficulty, pulmonary edema and cyanosis.

**POTENTIAL CARCINOGEN AGGRAVATED BY EXPOSURE:**

Not known. None of the components in this product is listed by IARC, NTP or OSHA as a potential carcinogen. (IARC CANCER REVIEW; ANIMAL INADEQUATE EVIDENCE; IMEMDT 12,37,76; IARC Monogr Eval Carcinog Risk Chem Man.)

**SECTION VII**

*SPILL OF LEAK PROCEDURES*

**STEPS TO BE TAKEN IN CASE THE MATERIAL IS RELEASED OR SPILLED:**

Wear appropriate personal protective equipment. Contain spill; vacuum or scoop and sweep up and place in container for disposal.

**WASTE DISPOSAL METHOD:** Material which can not be used at the site should be disposed of in an approved waste facility following all applicable Federal, State and Local regulations. Completely empty container into application equipment (if any), then dispose of empty container in a sanitary landfill. If allowed by state and local authorities, empty containers must be burned. If burned, stay out of smoke. Do not contaminate water supplies by disposal of waste of containers.

**SECTION VIII**

*SPECIAL PROTECTION INFORMATION*

**RESPIRATORY PROTECTION:** If airborne concentrations of this material approach allowable exposure limits, wear MSHA/NIOSH- approved respirator for dusts containing carbonate pesticides.

**VENTILATION:** Local Exhaust: Not normally required. Special: Not normally

required.

Mechanical (General): Not normally required. Use if ventilation is not adequate. Other: Work in a well ventilated area.

**PROTECTIVE GLOVES:** Work gloves or impervious gloves recommended.

**EYE PROTECTION:** Not normally required; follow local work rules.

**OTHER PROTECTIVE EQUIPMENT:** Wear clothing consistent with good practices for handling and applying pesticides. Wash used clothing before reuse.

## **SECTION IX**

### *SPECIAL PRECAUTIONS*

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:** Store in a cool place away from children, domestic animals, food and feed products. Do not contaminate other stored products of the storage area by handling or usage of this product. Immediately clean up any spills which occur during handling and storage.

**OTHER PRECAUTIONS:** Do not contaminate water supplies by handling or storage of product, cleaning or equipment or disposal of wastes. Keep work storage areas clean. Toxic to fish and other aquatic organisms. Read and follow precautionary measures on product label.

## **SECTION X**

### **DOT INFORMATION AND DATE**

- i. DOT CLASSIFICATION: Not regulated by DOT
- ii. DATE OF ISSUE: 31-Jan-89
- iii. DOT LABEL: None required
- iv. SUPERCEDES: 01-Jan-83

### **MATERIAL SAFETY DATA SHEET**

#### **Peacock Industries**

P.O. Box 750

Hague, Saskatchewan

SOK 1XO Canada

(306)-225-4691 For Chemical Emergency

Spill, Leak, Fire, Exposure or Accident

Call Chemtree- Day or Night 1-800-424-9300

### **PRODUCT IDENTIFICATION**

- i. Common Name: Eco Bran 2%, 5%
- ii. EPA Registration #: 67650-2, 67650-3
- iii. PMRA Registration #: 25815 (2%)

### **HAZARDOUS INGREDIENTS % OSHA PEL TLV (ACGIH)**

- i. Carbaryl (1-nephthyl N-methylcarbamate) 5 5 mg/m/2 5 mg/m/2
- ii. Kerosene 1 N/A

**PHYSICAL AND CHEMICAL PROPERTIES**

- i. Melting point: N/A
- ii. Appearance: Wheat Flakes
- iii. Color: Tan
- iv. Bulk Density: 15-20 lbs./ft<sup>3</sup>
- v. Percent Volatile: N/A

**FIRE FIGHTING MEASURES**

- i. Flash Point: N/A
- ii. LEL: N/A
- iii. UEL: N/A

**EXTINGUISHING MEDIA:** Considered non-combustible; use medium appropriate to surrounding fire. CO<sub>2</sub> or dry chemical for small fires; water spray or foam for large fires.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Oxides of nitrogen, carbon and sulfur. Minute amounts of methyl isocyanate may be released in fire conditions.

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