1.1 Product Identifier

**MATERIAL NAME:** Summit Mosquito Dunks®/BTI Briquets®

**Synonyms:** Mosquito Dunks®

**EPA Reg No.:** 6218-47

**Code Number:** MODU212, MODU12, MODU224, MODU100, BACBR1P, BACBR1S

**List Number:** 102-12, 102-24, 110-12, 111-5, BACBR1S, BACBR1P

**Chemical Family:** Not applicable; microbial product

**Substance Registration Number(s)[REACH]:** N/A

1.2 Relevant Identified Uses and Uses Advised Against

**Identified Uses:** Biological mosquito larvicide

**Uses Advised Against:** It is a violation of Federal law to use this product in a manner inconsistent with its FIFRA pesticide labeling.

1.3 Details of the supplier of the Safety Data Sheet

**Supplied By:** Summit Chemical Co.

235 S. Kresson Street
Baltimore, MD 21224
800-227-8664

1.4 EMERGENCY TELEPHONE NUMBERS

**Emergency Health or Spill:** CHEMTEL
Outside the United States: +01 -813-248-0585
Within the United States: 800-255-3924

2. HAZARDS IDENTIFICATION

2.1 Classification of the Substance or Mixture

Eye Irritation – Category 2B

2.2 Labeling Elements

**Symbol(s):** Symbols not required

**Signal Word:** WARNING

**Hazard Statement(s):** Causes Eye Irritation
2.3 Precautionary Statement:
   Prevention
   Avoid breathing dust
   Wear dust mask when handling
   Wash thoroughly after handling
   Wear protective clothing, eye protection and impervious gloves

   Response
   IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. IF ON SKIN: Wash with soap and water. Take off contaminated clothing and wash it before reuse.

   Disposal
   Dispose of contents/container in accordance with local/regional/national regulations.

   Safety
   Avoid contact with skin and eyes

2.4 Other Hazards
   None identified.

3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>CAS #</th>
<th>Component Name</th>
<th>EC No.</th>
<th>(Classification)</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td>Bacillus thuringiensis subsp. israelensis, Strain BMP-144</td>
<td></td>
<td>Not classified</td>
<td>10.31%</td>
</tr>
<tr>
<td>Trade Secret</td>
<td>Other ingredients</td>
<td></td>
<td>Not classified</td>
<td>89.69%</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

4.1 Description of First Aid Measures

   GENERAL: In all cases of doubt, seek medical attention.

   EYES: Remove from source of exposure. Flush with copious amounts of water. Remove contact lenses, if present and easy to do, after the first 5 minutes, then continue rinsing. If irritation persists or signs of toxicity occur, seek medical attention. Provide symptomatic/supportive care as necessary.
SKIN:  Remove from source of exposure. Take off contaminated clothing. Flush with copious amounts of water. If irritation occurs or signs of toxicity occur, seek medical attention. Provide symptomatic/supportive care as necessary.

INGESTION:  Remove from source of exposure. Move person to fresh air. Do NOT induce vomiting. If signs of toxicity occur, seek medical attention. Provide symptomatic /supportive care as necessary.

INHALATION:  Remove from source of exposure. If signs of toxicity occur, seek medical attention. Provide symptomatic/supportive care as necessary. If person is not breathing, call 911, then give artificial respiration.

4.2 Most important Symptoms and Effects, both Acute and Delayed
Acute
Possible eye and skin irritation

Delayed
No information on significant adverse effects

4.3 Indication of any Immediate Medical Attention and Special Treatment Needed
Treat symptomatically and supportively

5. FIRE FIGHTING PROCEDURES

5.1 Extinguisher Media
Suitable Extinguisher Media
Dry chemical, water spray, foam or carbon dioxide. Use appropriate medium for the underlying cause of the fire.

Unsuitable Extinguisher Media
None known

5.2 Specific Hazards Arising from the Chemical
Thermal decomposition products
Hazardous compounds, such as carbon oxides, nitrogen oxides

Protective Equipment and precautions for firefighters
Fire fighter should wear full-face, self-contained breathing apparatus and impervious protective clothing. Fire fighters should avoid inhaling combustion products. See Section 8 (Exposure Controls / Personal Protection)

Fire & Explosive hazard
Not expected to be flammable.
6. ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective Equipment and Emergency Procedures
   For respiratory protection wear a dust mask. Wear eye protection appropriate to handling activities. Wear impervious gloves. See personal protection as recommended in Section 8.

6.2 Environmental Precautions
   Dispose of excess product and washwaters according to local regulations.

6.3 Methods and Materials for Containment and Cleaning Up
   Wear appropriate personal protective equipment. Sweep up material and place in appropriate container for disposal. Avoid generating dust.

6.4 Reference to Other Sections
   See Section 7 for Handling Procedures. See Section 8 for Personal Protective Equipment recommendations. See Section 13 for Disposal Considerations.

   US Regulations may require reporting spills of hazardous materials: See Section 15: REGULATORY INFORMATION for details on reportable quantities, if any.

7. HANDLING AND STORAGE

7.1 Precautions for Safe handling
   For respiratory protection wear a dust mask. Avoid contact with eyes, skin or clothing. Wash thoroughly after handling. Do not eat, drink, chew gum or smoke while working with product, obey reasonable safety precautions and practice good housekeeping.

7.2 Conditions for Safe Storage, Including Incompatibilities
   Protect against physical damage. Keep in original containers. Close containers of unused material. Store in a cool, dry place.

   Incompatibilities
      None Known

7.3 Specific End Use(s)
   Pesticide, biological mosquito larvicide

8. EXPOSURE CONTROLS/PERSONAL PROTECTION
8.1 Control Parameters
Component Exposure Limits
None

Derived No Effect Levels (DNELs)
No DNELs available

Predicted No Effect Concentrations (PNECs)
No PNECs available

8.2 Exposure Controls
Appropriate Engineering Controls
Provide general ventilation.

SKIN PROTECTION:
Wear protective clothing, including boots and gloves. For filling operations if dust/mist is produced wear a dust mask. Wear gloves made of impervious materials. Wash thoroughly with soap and water after handling.

EYE PROTECTION:
Wear goggles, safety glasses with side shields

RESPIRATORY PROTECTION:
Use dust/mist filtering respirator (MSHA/NIOSH approved number prefix TC-21C or a NIOSH approved respirator with any N, P, R or HE filter during application procedures or when repeat exposure is expected.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on Basic Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance/Odor:</td>
<td>Light Brown granular solid</td>
</tr>
<tr>
<td>Odor Threshold:</td>
<td>Musty - Characteristic</td>
</tr>
<tr>
<td>pH:</td>
<td>5.4 (10% dispersion in water)</td>
</tr>
<tr>
<td>Boiling Point:</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Melting Point:</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Solubility (H₂O):</td>
<td>Suspends and partially soluble</td>
</tr>
<tr>
<td>Specific Gravity:</td>
<td>Not Determined</td>
</tr>
<tr>
<td>Bulk Density:</td>
<td>0.48 g/mg</td>
</tr>
<tr>
<td>Octanol/H₂O Coeff:</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Evaporation Rate:</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Molecular Weight:</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Decomposition Temp.:</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Auto Ignition:</td>
<td>Not Determined</td>
</tr>
<tr>
<td>LFL:</td>
<td>Not Determined</td>
</tr>
<tr>
<td>Flash Point:</td>
<td>Not Determined</td>
</tr>
<tr>
<td>UFL:</td>
<td>Not Determined</td>
</tr>
<tr>
<td>Vapor Density:</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Vapor Pressure:</td>
<td>Not Applicable</td>
</tr>
</tbody>
</table>
10. CHEMICAL STABILITY AND REACTIVITY

10.1 Reactivity
Material does not pose a significant reactivity hazard.

10.2 Chemical Stability
Stable under ordinary conditions of use and storage. Spontaneous reaction not possible.

10.3 Possibility of Hazardous Reactions
Does not undergo hazardous polymerization

10.4 Conditions to Avoid
None known

10.5 Incompatible Materials
None known

10.6 Hazardous Decomposition Products
Carbon oxides and unidentified organic compounds.

11. TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological Effects

LIKELY ROUTES OF EXPOSURE
   Eye Contact: Yes
   Skin Contact: Yes
   Ingestion: No
   Inhalation: No

ACUTE EFFECTS  Product Toxicology Studies (Data for Technical, unless noted)

   ORAL TOXICITY: LD_{50} > 5,000 mg/kg (rat)
   DERMAL TOXICITY: LD_{50} > 5,000 mg/kg (rabbit)
   INHALATION TOXICITY: LC_{50} > 2.84 mg/L air (maximum feasible concentration)
   CORROSIVENESS: Not corrosive.
   DERMAL IRRITATION: Mildly or slightly irritating
   OCULAR IRRITATION: Slightly irritating
   DERMAL SENSITIZATION: (For Formulated Product) Not a sensitizer (guinea pig)

MUTAGENICITY INFORMATION: Components of this product are not expected mutagens.
CARCINOGENICITY INFORMATION: Components of this product are not listed as carcinogenic by
NTP, IARC or OSHA.
 DEVELOPMENTAL/REPRODUCTIVE TOXICITY: This material is not pathogenic
SPECIAL TARGET ORGAN EFFECTS: Slight Eye or skin Irritation.
ASPIRATION HAZARD: Not Applicable
REPEAT DOSE STUDIES: Not Applicable, Pathogenicity Toxicity testing was all negative

12. ECOLOGICAL INFORMATION

12.1 Ecotoxicity (Data for a Concentrated Technical Powder)

Fish: \( LC_{50} \geq 370 \text{ mg/L (96-H, Rainbow Trout)} \)

Bird: \( LC_{50} \geq 3077 \text{ mg/kg (6.2 \times 10^{11} \text{ cfu/kg) (Acute Oral - Bobwhite Quail)}} \)
\( LC_{50} \geq 3077 \text{ mg/kg (6.2 \times 10^{11} \text{ cfu/kg) each day for 5 days (Sub-Acute Oral (dietary) - Bobwhite Quail)}} \)

Invertebrates: \( LC_{50} \geq 50 \text{ mg/L (48-H) (Daphnia)} \)

Bees: Essentially non-toxic to honey bees.

12.2 Persistence and Degradability
No data available

12.3 Bioaccumulation potential
Not applicable. Substance is not pathogenic to non-target organisms

12.4 Mobility in Soil
No data available

12.5 Results of PBT and vPvB assessment
Assessments not performed

12.6 Other adverse effects
None known

13. DISPOSAL CONSIDERATIONS

13.1 Waste Disposal Methods
Dispose of product in accordance with federal, state, provincial, and local regulations. Prevent contamination of environment by wastes.

US EPA WASTE NUMBER & DESCRIPTIONS:
There is no applicable EPA waste number. This product, if discarded, is not expected to be a characteristic or listed hazardous waste.
14. TRANSPORTATION INFORMATION

DOT STATUS: Not regulated by US DOT
UN PROPER SHIPPING NAME: N/A
REMARKS: N/A

IATA/ICAO STATUS: Not Regulated
PROPER SHIPPING NAME: N/A
REMARKS: N/A

IMDG STATUS: Not Regulated
PROPER SHIPPING NAME: N/A
REMARKS: N/A

15. REGULATORY INFORMATION

15.1 Safety, Health and Environmental Regulations / Specific Legislation
TSCA STATUS: Exempt
CERCLA STATUS: Not regulated as hazardous
SARA STATUS: Acute: No Chronic: No Fire: No CDT: No
RCRA STATUS: Not regulated as hazardous
State Right-To-Know: Not Listed
Consult applicable national, state provincial or local laws to determine regulations, laws or ordinances which may be applicable.
OSHA HAZARD COMMUNICATION STANDARD: Not defined by the OSHA Hazard Communication Standard, 29 CFR

15.2 EPA Pesticide Regulations
EPA Registration Number: 73049-10
EPA Pesticide Label signal word: CAUTION
Product must have EPA Approved Pesticide Label attached to or accompanying all containers.

This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions and limitations for its use.

KEEP OUT OF REACH OF CHILDREN
CAUTION
PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS

Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling. Mixers/loaders and applicators must wear a dust/mist filtering respirator meeting NIOSH standards of at least N-95, R-95, or P-95. Repeated exposure to high concentrations of microbial proteins can cause allergic sensitization.

ENVIROMENTAL HAZARDS

Do not contaminate water when cleaning equipment or disposing of equipment washwaters. Do not apply directly to treated, finished drinking water reservoirs or drinking water receptacles when the water is intended for human consumption.

STORAGE AND DISPOSAL

Do not contaminate potable water, food, or feed by storage or disposal.

Storage: Store in cool [59-86°F (15-30°C)], dry place.

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

Container Disposal: Nonrefillable container. Do not reuse or refill this container. Once cleaned, some agricultural plastic pesticide containers can be taken to a container collection site or picked up for recycling. To find the nearest site, contact your chemical dealer or manufacturer, or contact Ag Container Recycling Council at 202-861-3144 or www.acrecycle.org. If recycling is not available dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

16. OTHER INFORMATION

<table>
<thead>
<tr>
<th>NFPA Hazard</th>
<th>Ratings</th>
<th>HMIS Hazard</th>
<th>Ratings</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health:</td>
<td>1</td>
<td>Health:</td>
<td>1</td>
</tr>
<tr>
<td>Flammability:</td>
<td>0</td>
<td>Flammability:</td>
<td>0</td>
</tr>
<tr>
<td>Instability:</td>
<td>0</td>
<td>Instability:</td>
<td>0</td>
</tr>
</tbody>
</table>

0 = Minimal
1 = Slight
2 = Moderate
3 = Serious
4 = Extreme

REASON FOR ISSUE: Update warranty statement and correct list #

APPROVAL DATE: 3/16/16
SUPERSEDES DATE: 4/14/15
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, Summit Chemical Company 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 Summit Chemical Company 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 Summit Chemical Company 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.