

**Summit B.t.i. Granules**

**1.1 Product Identifier**

**MATERIAL NAME:** Summit B.t.i. Granules

**Synonyms:** Mosquito Bits®

**EPA Reg No.:** 6218-86

**Code Number:** N/A

**List Number:**

**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

Summit B.t.i. Granules

**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.

<b><u>3. COMPOSITION/INFORMATION ON INGREDIENTS</u></b>
---

CAS #	Component Name	EC No.	(Classification)	Percent
None	<i>Bacillus thuringiensis</i> subsp. <i>israelensis</i> , Strain BMP-144		Not classified	2.86%
Trade Secret	Other ingredients		Not classified	97.14%

<b><u>4. FIRST AID MEASURES</u></b>
-------------------------------------

**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.

Summit B.t.i. Granules

**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.

Summit B.t.i. Granules

**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**

Summit B.t.i. Granules

**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.

<b><u>9. PHYSICAL AND CHEMICAL PROPERTIES</u></b>
---

**9.1 Information on Basic Physical and Chemical Properties**

Appearance/Odor:	Light Brown granular solid	Odor Threshold:	Musty - Characteristic
pH:	5.4 (10% dispersion in water)	Boiling Point:	Not applicable
Melting Point:	Not Applicable	Solubility (H <sub>2</sub> O):	Suspends and partially soluble
Specific Gravity:	Not Determined	Bulk Density:	0.48 g/mg
Octanol/H <sub>2</sub> O Coeff:	Not Applicable	Evaporation Rate:	Not Applicable
Molecular Weight:	Not Applicable	Decomposition Temp.:	Not Determined
Auto Ignition:	Not Determined	LFL:	Not Determined
Flash Point:	Not Determined	UFL:	Not Determined
Vapor Density:	Not Applicable	Vapor Pressure:	Not Applicable

Summit B.t.i. Granules

**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<sub>50</sub> > 5,000 mg/kg (rat)DERMAL TOXICITY: LD<sub>50</sub> > 5,000 mg/kg (rabbit)INHALATION TOXICITY: LC<sub>50</sub> > 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.

Summit B.t.i. Granules

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<sub>50</sub> >370 mg/L (96-H, Rainbow Trout)Bird: LC<sub>50</sub> >3077 mg /kg (6.2 x 10<sup>11</sup> cfu/kg) (Acute Oral - Bobwhite Quail)LC<sub>50</sub> >3077 mg /kg (6.2 x 10<sup>11</sup> cfu/kg) each day for 5 days (Sub-Acute Oral (dietary) - Bobwhite Quail)Invertebrates: LC<sub>50</sub> >50 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 &amp; DESCRIPTIONS:

There is no applicable EPA waste number. This product, if discarded, is not expected to be a characteristic or listed hazardous waste.

Summit B.t.i. Granules

**14. TRANSPORTATION INFORMATION**

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

IATA/ICA0 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**



Summit B.t.i. Granules

**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.

**ENVIRONMENTAL 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](http://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****NFPA Hazard Ratings**

Health: 1  
Flammability: 0  
Instability: 0

**HMIS Hazard Ratings**

Health: 1  
Flammability: 0  
Instability: 0

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

## SAFETY DATA SHEET

10 of 10

Summit B.t.i. Granules

LEGEND: N/A = Not Applicable  
N/L = Not Listed  
C = Ceiling  
(R) = Registered Trademark of Summit Chemical Company  
(TM) = Registered Trademark of Summit Chemical Company

N/D = Not Determined  
L = Listed  
S = Short-term

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.