

**SECTION 1: Identification of the substance/mixture and of the company/undertaking**

**1.1. Product identifier**

**Product name:** Summit Biological Caterpillar & Webworm Control  
**EPA reg. No.** 70051-106-6218  
**Product Type:** Liquid Concentrate  
**Active Ingredient:** *Bacillus thuringiensis* subspecies *kurstaki* strain SA-12  
**CAS No.:** 68038-71-1

**1.2. Relevant identified uses of the substance or mixture and uses advised against**

**Identified uses:** Biological Insecticide  
**Uses advised against:** Any use not listed on the label.

**1.3. Details of the supplier of the safety data sheet**

**Name:** Summit Chemical Company  
**Address:** 235 S. Kresson Street  
Baltimore, Maryland 21224  
U.S.A.  
**Phone Number:** +01 (800) 227-8664  
**Website:** <http://www.summitchemical.com>

**1.4. Emergency telephone number**

**Emergency number:** +1 800 255-3924

**SECTION 2: Hazards identification**

**2.1. Classification of the substance or mixture**

**Hazard Classification:** Not classified by OSHA  
**EPA Signal Word:** Caution (see section 15)  
**Hazard Statements:** None  
**Pictogram:** None  
**Precautionary Statements:** Causes moderate eye irritation. Avoid contact with eyes or clothing. Avoid breathing vapors or spray mist. Wash thoroughly with soap and water after handling.

**2.2 Other Hazards:** To protect the environment do not allow pesticide to enter or run off into storm drains, drainage ditches, gutters or surface waters. Applying this product in calm weather when no rain is predicted for the next 24 hours will help ensure that wind or rain will not blow or wash pesticide off the treatment area. Rinsing application equipment over the treatment area will help avoid run off to water bodies or drainage systems.

**SECTION 3: Composition/information on ingredients****3.1 Substance composition**

Ingredient	CAS #	% by Weight
<i>Bacillus thuringiensis</i> subspecies <i>kurstaki</i> technical liquid	68038-71-1 EPA Reg.# 70051-68	98.35

**SECTION 4: First aid measures****4.1. Description of first aid measures**

**Generic measures** Have the product container or label with you when calling a poison control center or doctor or going for treatment.

**Eye Contact:** Hold eye open and rinse slowly and gently for 15-20 minutes. Remove contact lenses if present after the first 5 minutes, then continue rinsing. Call poison control center or doctor for treatment advice.

**4.2. Most important symptoms and effects, both acute and delayed**

None specified

**4.3. Indication of any immediate medical attention and special treatment needed**

None specified

**SECTION 5: Firefighting measures****5.1. Extinguishing media**

**Suitable Extinguishing Media:** None specified

**Unsuitable Extinguishing Media:** None specified

**5.2. Special hazards arising from the substance or mixture**

**Hazardous combustion products:** None known

**5.3. Advice for firefighters**

**Protection of Firefighters:** None specified

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

**For non-emergency personnel:** None specified

**Safety Data Sheet (SDS)**  
**For emergency responders:**

None specified

**Product Name: Summit® Biological Caterpillar & Webworm Control**  
**Date of Compilation: March 23, 2015**

### **6.2. Environmental precautions**

To protect the environment do not allow pesticide to enter or run off into storm drains, drainage ditches, gutters or surface waters.

### **6.3. Methods and material for containment and cleaning up**

**Methods for Containment:** For small spills soak up with pet litter or similar absorbent material place into a sealed container and dispose of according to Federal State and local law.

### **6.4. Reference to other sections**

See Section 8 for occupational exposure limits and risk management measures. Refer to Section 13 for disposal considerations.

## **SECTION 7: Handling and storage**

### **7.1. Precautions for safe handling**

Causes moderate eye irritation. Avoid contact with eyes or clothing. Avoid breathing vapors or spray mist. Wash thoroughly with soap and water after handling.

### **7.2. Conditions for safe storage, including any incompatibilities**

Keep out of reach of children. Store in a cool dry place. Activity may be impaired by storage at temperatures above 90°F.

### **7.3. Specific end use(s)**

Rinsing application equipment over the treatment area will help avoid run off to water bodies or drainage systems.

## **SECTION 8: Exposure controls/personal protection**

### **8.1. Control parameters**

**OSHA Permissible Exposure Limits (PELs):** Not determined

**ACGIH Threshold Limit Values:** Not determined

**Other Exposure Limits:** Not determined

### **8.2. Exposure controls**

**Engineering Controls:** None specified

**Personal Protective Equipment** None specified

**Eye/Face Protection:** None specified

**Skin Protection** None specified

**Hand Protection:** None specified

**Safety Data Sheet (SDS)****Body Protection:** None specified**Respiratory Protection:** None specified**Thermal Hazards:** None known**General Hygiene Considerations:** Wash thoroughly with soap and water after handling.**Environmental exposure controls:** To protect the environment do not allow pesticide to enter or run off into storm drains, drainage ditches, gutters or surface waters. Applying this product in calm weather when no rain is predicted for the next 24 hours will help ensure that wind or rain will not blow or wash pesticide off the treatment area. Rinsing application equipment over the treatment area will help avoid run off to water bodies or drainage systems.**Product Name: Summit® Biological Caterpillar & Webworm Control****Date of Compilation: March 23, 2015****SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

<b>Appearance:</b>	Brown liquid
<b>Odour:</b>	Yeasty
<b>Odour Threshold:</b>	Not determined
<b>pH:</b>	4.4-5.5
<b>Melting Point / Freezing Point:</b>	Not determined
<b>Initial Boiling Point:</b>	Not determined
<b>Boiling Range:</b>	Not determined
<b>Flash Point:</b>	Not determined
<b>Evaporation Rate:</b>	Not determined
<b>Flammability (solid, gas):</b>	Not applicable
<b>Lower &amp; Upper Flammability Limits:</b>	Not applicable
<b>Vapour Pressure:</b>	Not determined
<b>Vapour Density:</b>	Not determined
<b>Density:</b>	8.4 lb./gal.
<b>Solubility:</b>	Not determined
<b>Partition Coefficient (n-octanol/water):</b>	Not determined
<b>Auto-ignition Temperature:</b>	Not determined
<b>Decomposition Temperature:</b>	Not determined
<b>Viscosity:</b>	Not determined
<b>Explosive Properties:</b>	None known
<b>Oxidising Properties:</b>	None known

**9.2. Other information**

Not available.

**SECTION 10: Stability and reactivity**

<b><u>10.1. Reactivity</u></b>	Not reactive
<b><u>10.2. Chemical stability</u></b>	Stable
<b><u>10.3. Possibility of hazardous reactions</u></b>	None known
<b><u>10.4. Conditions to avoid</u></b>	None known
<b><u>10.5. Incompatible materials</u></b>	None known
<b><u>10.6. Hazardous decomposition products</u></b>	None known

**SECTION 11: Toxicological****11.1. Information on toxicological effects****Acute Toxicity****Toxicological information on the substance or mixture:**

<b>LD<sub>50</sub> (oral)</b>	No toxicity or infectivity, Toxicity Category IV
<b>LD<sub>50</sub> (dermal)</b>	No toxicity observed, Toxicity Category IV
<b>LC<sub>50</sub> (inhalation)</b>	No toxicity or infectivity, Toxicity Category IV

**Skin corrosion / irritation:** Slightly irritating

**Eye irritation:** Mildly irritating

**Respiratory or skin sensitization:** Not required.

**Other information on adverse health effects:****Carcinogenicity**

<b>NTP Listed:</b>	Not applicable
<b>IARC Listed:</b>	Not applicable
<b>OSHA:</b>	Not applicable

**11.2 Reference to other sections**

See Section 4 for symptoms and acute and delayed effects.

**SECTION 12: Ecological information****12.1. Toxicity**

Test species	Test method	Test substance	LC <sub>50</sub>
Northern Bobwhite	5 day	Similar Btk strain (AI)	LC <sub>50</sub> > 3.86 x 10 <sup>9</sup> CFU/kg body weight

**Safety Data Sheet (SDS)****Product Name: Summit® Biological Caterpillar &**

<i>Oncorhynchus mykiss</i>	30-day	Similar Btk strain (AI)	LC <sub>50</sub> > 1 x 10 <sup>8</sup> CFU/mL Date of Compilation: March 23, 2015
<i>Daphnia magna</i>	48 hour, static	Similar Btk strain (AI)	EC <sub>50</sub> > 1 x 10 <sup>8</sup> CFU/mL
<i>Apis mellifera</i> L	10 day	Btk strain SA-12 (active ingredient strain)	Not active on honey bees

**12.2. Persistence and degradability**

*Bacillus thuringiensis* subspecies *kurstaki* (Btk) shows a rapid loss of activity in response to UV light

**12.3. Bioaccumulative potential**

Btk is not pathogenic and does not reproduce in living organisms other than target Lepidopteran larvae

**12.4. Mobility in soil**

Low based on scientific data for Btk.

**12.5. Other adverse effects**

No data available.

**SECTION 13: Disposal considerations****13.1. Waste treatment methods****Disposal Instructions:**

*Pesticide Storage:* Store in a cool place. Activity may be impaired by storage at temperatures above 90°F.

*Pesticide Disposal and Container Handling:*

Non-refillable container. Do not reuse or refill this container.

*-for containers less than or equal to 5 gallons-*

If empty: Place in trash or offer for recycling.

If partly filled: Call your local solid waste agency for disposal instructions. Never place any unused product down any indoor or outdoor drain.

*- for containers greater than 5 gallons-*

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 the 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. Turn the container over onto its other 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 and disposal. Repeat this procedure two more times. Then offer for recycling, if available, or puncture and dispose of in a sanitary landfill, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

**SECTION 14: Transportation information****14.1. UN number**

Not regulated.

**14.2. UN proper shipping name**

Not regulated.

**14.3. Transport hazard class(es)**

Not regulated.

**14.4. Packing group**

Not regulated.

**14.5. Environmental hazards**

Not regulated.

**14.6. Special precautions for user**

Not regulated.

**14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not regulated.

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

EPA: This product 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-pesticidal chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions for use.

CAUTION, KEEP OUT OF REACH OF CHILDREN  
Causes moderate eye irritation.

<u>OSHA:</u>	N/A
<u>TSCA Status:</u>	Exempt
<u>CERCLA Reportable Quantity:</u>	N/A
<u>SARA Title III:</u>	
Section 302:	N/A
Section 311/312:	N/A
Section 313:	N/A
<u>RCRA Status:</u>	N/A

**SECTION 16: Other information****Disclaimer:**

To the best of our knowledge, the information contained herein is accurate. However, neither Summit nor any of its subsidiaries assume any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All material may present unknown health hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist.

**SDS Authoring Information:**

<b>Revision date:</b>	March 23, 2015
<b>Date of Previous version:</b>	July 2, 2013
<b>Reason for Revision:</b>	OSHA Hazard Communication Standard 2012
<b>SDS Prepared by:</b>	Summit Chemical Company