

**BIOADVANCED SCIENCE-BASED  
SOLUTIONS TOMATO & VEGETABLE  
INSECT KILLER READY-TO-USE**

Version 1.0 / USA  
102000006639

**1/10**

Revision Date: 09/17/2020

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**SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE  
COMPANY/UNDERTAKING**

**Product identifier**

**Trade name** BIOADVANCED SCIENCE-BASED SOLUTIONS TOMATO &  
VEGETABLE INSECT KILLER READY-TO-USE

**Product code**

**SDS Number** 102000006639

**EPA Registration No.** 92564-18

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

**Use** Insecticide

**Restrictions on use** See product label for restrictions.

**Information on supplier**

**Supplier** SBM Life Science Corp.  
1001 Winstead, Ste 500  
Cary, NC 27513  
United States

**Responsible Department** Email: SDS@sbm-company.com

**Emergency Telephone Number (24hr/ 7 days)** 1-877-229-3763

**Product Information Telephone Number** 1-877-229-3724

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**SECTION 2: HAZARDS IDENTIFICATION**

**Classification in accordance with regulation HCS 29CFR §1910.1200**

Skin sensitisation: Category 1



**Signal word:** Warning

**Hazard statements**

May cause an allergic skin reaction.

**Precautionary statements**

Avoid breathing mist and spray.

**BIOADVANCED SCIENCE-BASED  
SOLUTIONS TOMATO & VEGETABLE  
INSECT KILLER READY-TO-USE**

Version 1.0 / USA  
102000006639

**2/10**  
Revision Date: 09/17/2020

Contaminated work clothing should not be allowed out of the workplace.  
Wear protective gloves.  
IF ON SKIN: Wash with plenty of water/soap.  
If skin irritation or rash occurs: Get medical advice/attention.  
Specific treatment (see supplemental first aid instructions on this label).  
Wash contaminated clothing before reuse.  
Dispose of contents/container in accordance with local regulation.

**Other hazards**

No other hazards known.

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**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

<b>Hazardous Component Name</b>	<b>CAS-No.</b>	<b>Concentration % by weight</b>
Cyfluthrin	68359-37-5	0.003

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**SECTION 4: FIRST AID MEASURES**

**Description of first aid measures**

<b>General advice</b>	When possible, have the product container or label with you when calling a poison control center or doctor or going for treatment.
<b>Inhalation</b>	Move 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 physician or poison control center immediately.
<b>Skin contact</b>	Take off contaminated clothing and shoes immediately. Wash off immediately with plenty of water for at least 15 minutes. Call a physician or poison control center immediately.
<b>Eye contact</b>	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 physician or poison control center immediately.
<b>Ingestion</b>	Call a physician or poison control center immediately. Rinse out mouth and give water in small sips to drink. DO NOT induce vomiting unless directed to do so by a physician or poison control center. Never give anything by mouth to an unconscious person. Do not leave victim unattended.

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

**Symptoms** To date no symptoms are known.

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

**Treatment** Appropriate supportive and symptomatic treatment as indicated by the patient's condition is recommended. There is no specific antidote.

**BIOADVANCED SCIENCE-BASED  
SOLUTIONS TOMATO & VEGETABLE  
INSECT KILLER READY-TO-USE**

Version 1.0 / USA  
10200006639

**3/10**

Revision Date: 09/17/2020

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**SECTION 5: FIREFIGHTING MEASURES**

**Extinguishing media**

**Suitable** Dry chemical, Foam, Water spray

**Unsuitable** High volume water jet

**Special hazards arising from the substance or mixture** Dangerous gases are evolved in the event of a fire.

**Advice for firefighters**

**Special protective equipment for fire-fighters** Firefighters should wear NIOSH approved self-contained breathing apparatus and full protective clothing.

**Further information** Keep out of smoke. Fight fire from upwind position. Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses.

**Flash point** > 93 °C

**Autoignition temperature** no data available

**Lower explosion limit** no data available

**Upper explosion limit** no data available

**Explosivity** not applicable

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**SECTION 6: ACCIDENTAL RELEASE MEASURES**

**Personal precautions, protective equipment and emergency procedures**

**Precautions** Keep unauthorized people away. Isolate hazard area. Avoid contact with spilled product or contaminated surfaces.

**Methods and materials for containment and cleaning up**

**Methods for cleaning up** Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Collect and transfer the product into a properly labelled and tightly closed container. Clean contaminated floors and objects thoroughly, observing environmental regulations.

**Additional advice** Use personal protective equipment.

**Reference to other sections** Information regarding safe handling, see section 7.  
Information regarding personal protective equipment, see section 8.  
Information regarding waste disposal, see section 13.

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**BIOADVANCED SCIENCE-BASED  
SOLUTIONS TOMATO & VEGETABLE  
INSECT KILLER READY-TO-USE**

Version 1.0 / USA  
10200006639

**4/10**

Revision Date: 09/17/2020

**SECTION 7: HANDLING AND STORAGE**

**Precautions for safe handling**

**Advice on safe handling** Handle and open container in a manner as to prevent spillage.

**Hygiene measures** Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, using the toilet or applying cosmetics. Remove and wash contaminated gloves, including the inside, before re-use. Remove Personal Protective Equipment (PPE) immediately after handling this product. Remove soiled clothing immediately and clean thoroughly before using again.

**Conditions for safe storage, including any incompatibilities**

**Requirements for storage areas and containers** Store in original container and out of the reach of children, preferably in a locked storage area. Keep containers tightly closed in a dry, cool and well-ventilated place.  
Protect from freezing.

**Advice on common storage** Keep away from food, drink and animal feedingstuffs.

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Control parameters**

Components	CAS-No.	Control parameters	Update	Basis
Cyfluthrin	68359-37-5	50ug/m3 (ST ESL)	03 2014	TX ESL
Cyfluthrin	68359-37-5	5ug/m3 (AN ESL)	03 2014	TX ESL

**Exposure controls**

**Personal protective equipment**

In normal use and handling conditions please refer to the label and/or leaflet. In all other cases the following recommendations would apply.

**Respiratory protection** When respirators are required, select NIOSH approved equipment based on actual or potential airborne concentrations and in accordance with the appropriate regulatory standards and/or industry recommendations.

**Hand protection** Chemical resistant nitrile rubber gloves

**Eye protection** Safety glasses with side-shields

**Skin and body protection** Wear long-sleeved shirt and long pants and shoes plus socks.

**General protective measures** Do not allow children or pets to enter the treated area until it has

**BIOADVANCED SCIENCE-BASED  
SOLUTIONS TOMATO & VEGETABLE  
INSECT KILLER READY-TO-USE**

Version 1.0 / USA  
102000006639

**5/10**

Revision Date: 09/17/2020

---

dried.  
Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and warm/tepid water.  
Keep and wash PPE separately from other laundry.

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**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance</b>	colourless to light yellow
<b>Physical State</b>	Liquid
<b>Odor</b>	mild
<b>Odour Threshold</b>	no data available
<b>pH</b>	ca. 4.5
<b>Vapor Pressure</b>	no data available
<b>Vapor Density (Air = 1)</b>	no data available
<b>Density</b>	ca. 1.00 g/cm <sup>3</sup> at 20 °C
<b>Evaporation rate</b>	no data available
<b>Boiling Point</b>	100 °C / 212 °F
<b>Melting / Freezing Point</b>	0 °C / 32 °F
<b>Water solubility</b>	dispersible
<b>Minimum Ignition Energy</b>	not applicable
<b>Decomposition temperature</b>	no data available
<b>Partition coefficient: n-octanol/water</b>	not applicable
<b>Flash point</b>	> 93 °C
<b>Autoignition temperature</b>	no data available
<b>Lower explosion limit</b>	no data available
<b>Upper explosion limit</b>	no data available
<b>Explosivity</b>	not applicable

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**SECTION 10: STABILITY AND REACTIVITY**

<b>Reactivity</b>	
<b>Thermal decomposition</b>	no data available
<b>Chemical stability</b>	Stable under recommended storage conditions.

**BIOADVANCED SCIENCE-BASED  
SOLUTIONS TOMATO & VEGETABLE  
INSECT KILLER READY-TO-USE**

Version 1.0 / USA  
102000006639

**6/10**  
Revision Date: 09/17/2020

---

<b>Possibility of hazardous reactions</b>	No dangerous reaction known under conditions of normal use.
<b>Conditions to avoid</b>	freezing
<b>Incompatible materials</b>	no data available
<b>Hazardous decomposition products</b>	No decomposition products expected under normal conditions of use.

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**SECTION 11: TOXICOLOGICAL INFORMATION**

**Exposure routes** Skin contact, Eye contact, Ingestion, Inhalation

**Immediate Effects**  
**Eye** Causes eye irritation.

**Ingestion** Harmful if swallowed.

**Inhalation** Harmful if inhaled.

**Information on toxicological effects**

**Acute oral toxicity** ATE (rat) > 5,000 mg/kg  
ATE – acute toxicity estimate

**Acute inhalation toxicity** ATE (rat) > 5 mg/l  
Exposure time: 4 h  
Determined in the form of liquid aerosol.  
ATE – acute toxicity estimate

**Acute dermal toxicity** ATE (rabbit) > 2,000 mg/kg  
ATE – acute toxicity estimate

**Skin irritation** Moderate skin irritation. (rabbit)

**Eye irritation** Minimally irritating. (rabbit)

**Sensitisation** Sensitising (guinea pig)

**Assessment repeated dose toxicity**

The toxic effects of Cyfluthrin are related to transient hyperactivity typical for pyrethroid neurotoxicity.

**Assessment mutagenicity**

Cyfluthrin was not mutagenic or genotoxic in a battery of in vitro and in vivo tests.

**Assessment carcinogenicity**

Cyfluthrin was not carcinogenic in lifetime feeding studies in rats and mice.

**ACGIH**

None.

**NTP**

**BIOADVANCED SCIENCE-BASED  
SOLUTIONS TOMATO & VEGETABLE  
INSECT KILLER READY-TO-USE**

Version 1.0 / USA  
102000006639

**7/10**  
Revision Date: 09/17/2020

---

None.

**IARC**

None.

**OSHA**

None.

**Assessment toxicity to reproduction**

Cyfluthrin caused reproduction toxicity in a two-generation study in rats only at dose levels also toxic to the parent animals. The reproduction toxicity seen with Cyfluthrin is related to parental toxicity.

**Assessment developmental toxicity**

Cyfluthrin caused developmental toxicity only at dose levels toxic to the dams. The developmental effects seen with Cyfluthrin are related to maternal toxicity.

**Further information**

Acute toxicity studies have not been performed on this product as formulated.  
Acute toxicity studies have been bridged from a similar formulation(s).  
The non-acute information pertains to the active ingredient(s).

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**SECTION 12: ECOLOGICAL INFORMATION**

<b>Toxicity to fish</b>	LC50 (Oncorhynchus mykiss (rainbow trout)) 0.00047 mg/l Exposure time: 96 h The value mentioned relates to the active ingredient cyfluthrin.
<b>Toxicity to aquatic invertebrates</b>	EC50 (Daphnia magna (Water flea)) 0.00016 mg/l Exposure time: 48 h The value mentioned relates to the active ingredient cyfluthrin.
<b>Toxicity to aquatic plants</b>	IC50 (Desmodesmus subspicatus (green algae)) > 10 mg/l Growth rate; Exposure time: 72 h The value mentioned relates to the active ingredient cyfluthrin.
<b>Biodegradability</b>	Cyfluthrin: not rapidly biodegradable
<b>Koc</b>	Cyfluthrin: Koc: 64300
<b>Bioaccumulation</b>	Cyfluthrin: Bioconcentration factor (BCF) 506 Does not bioaccumulate.
<b>Mobility in soil</b>	Cyfluthrin: Immobile in soil
<b>Environmental precautions</b>	Do not contaminate surface or ground water by cleaning equipment or disposal of wastes, including equipment wash water. Do not allow to get into surface water, drains and ground water. Do not apply directly to water, to areas where surface water is present

**BIOADVANCED SCIENCE-BASED  
SOLUTIONS TOMATO & VEGETABLE  
INSECT KILLER READY-TO-USE**

Version 1.0 / USA  
102000006639

**8/10**

Revision Date: 09/17/2020

---

or to intertidal areas below the mean high water mark.  
Apply this product as specified on the label.  
Do not apply this product or allow it to drift to blooming crops or weeds if bees are visiting the treatment area.

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**SECTION 13: DISPOSAL CONSIDERATIONS**

**Waste treatment methods**

<b>Product</b>	It is best to use all of the product in accordance with label directions. If it is necessary to dispose of unused product, please follow container label instructions and applicable local guidelines. Never place unused product down any indoor or outdoor drain.
<b>Contaminated packaging</b>	Do not re-use empty containers. Triple rinse containers. Place empty container in trash.
<b>RCRA Information</b>	Characterization and proper disposal of this material as a special or hazardous waste is dependent upon Federal, State and local laws and are the user's responsibility. RCRA classification may apply.

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**SECTION 14: TRANSPORT INFORMATION**

According to national and international transport regulations this material is not classified as dangerous goods / hazardous material.

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**SECTION 15: REGULATORY INFORMATION**

<b>EPA Registration No.</b>	92564-18
<b>US Federal Regulations</b>	
<b>TSCA list</b>	None.
<b>US. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpt D)</b>	None.
<b>SARA Title III - Section 302 - Notification and Information</b>	None.
<b>SARA Title III - Section 313 - Toxic Chemical Release Reporting</b>	
Cyfluthrin	68359-37-5
<b>US States Regulatory Reporting</b>	
<b>CA Prop65</b>	This product does not contain any substances known to the State of California to cause cancer.

This product does not contain any substances known to the State of California to cause reproductive harm.



**BIOADVANCED SCIENCE-BASED  
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INSECT KILLER READY-TO-USE**

Version 1.0 / USA  
102000006639

**9/10**  
Revision Date: 09/17/2020

---

**US State Right-To-Know Ingredients**

Cyfluthrin 68359-37-5 NJ, RI

**Canadian Regulations**

**Canadian Domestic Substance List**

None.

**Environmental**

**CERCLA**

None.

**Clean Water Section 307 Priority Pollutants**

None.

**Safe Drinking Water Act Maximum Contaminant Levels**

None.

**EPA/FIFRA Information:**

This chemical is a pesticide product registered by the 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, and for workplace labels of non-pesticide chemicals. Following is the hazard information required on the pesticide label:

**Signal word:** Caution!

**Hazard statements:** Harmful by inhalation and if swallowed.  
Causes eye irritation.  
Avoid contact with skin, eyes and clothing.  
Wash thoroughly with soap and water after handling.

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**SECTION 16: OTHER INFORMATION**

**Abbreviations and acronyms**

49CFR	Code of Federal Regulations, Title 49
ACGIH	US. ACGIH Threshold Limit Values
CAS-Nr.	Chemical Abstracts Service number
EINECS	European inventory of existing commercial substances
ELINCS	European list of notified chemical substances
IARC	US. IARC Monographs on Occupational Exposures to Chemical Agents
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
N.O.S.	Not otherwise specified
NTP	US. National Toxicology Program (NTP) Report on Carcinogens
OECD	Organization for Economic Co-operation and Development
TDG	Transportation of Dangerous Goods
TWA	Time weighted average
UN	United Nations
WHO	World health organisation



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SOLUTIONS TOMATO & VEGETABLE  
INSECT KILLER READY-TO-USE**

Version 1.0 / USA  
10200006639

**10/10**  
Revision Date: 09/17/2020

---

**NFPA 704 (National Fire Protection Association):**

Health - 2      Flammability - 1      Instability - 0      Others - none

**HMIS (Hazardous Materials Identification System, based on the Third Edition Ratings Guide)**

Health - 1      Flammability - 1      Physical Hazard - 0      PPE -

0 = minimal hazard, 1 = slight hazard, 2 = moderate hazard, 3 = severe hazard, 4 = extreme hazard

**Reason for Revision:** New Issue

**Date of Previous Revision:** New Issue

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