

**BIOADVANCED SCIENCE-BASED SOLUTIONS COMPLETE  
BRAND INSECT KILLER FOR SOIL & TURF READY-TO-  
SPREAD GRANULES I**

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Revision Date: 01/25/2019

**SECTION 1: PRODUCT / SUPPLIER IDENTIFICATION**

**Trade name:** BIOADVANCED SCIENCE-BASED SOLUTIONS COMPLETE BRAND INSECT KILLER FOR SOIL & TURF READY-TO-SPREAD GRANULES I

**EPA Reg. Number:** 9198-234-92564

**SDS Number:** 86288009

**Product Code:**

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

**Registrant:**

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

**Emergency Telephone Number:** 1-877-229-3763 (24 hours/day)

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

**SDS Information or Request:** [SDS@sbm-Company.com](mailto:SDS@sbm-Company.com)

**SECTION 2: HAZARDS IDENTIFICATION**

**HAZARD SYMBOLS / STATEMENTS:**



DANGER TOXIC IF SWALLOWED  
MAY CAUSE MILD SKIN  
IRRITATION MAY CAUSE  
EYE IRRITATION  
MAY CAUSE RESPIRATORY IRRITATION



**HAZARD CLASSIFICATIONS:**

*ACUTE TOXICITY*  
*SKIN IRRITATION*  
*EYE IRRITATION*  
*TARGET ORGAN SYSTEMIC TOXICITY*

**CATEGORY**

3  
3  
2B  
3

**INTERPRETATION**

Moderate to High  
Mild Skin Irritation Possible  
Promptly Reversible Eye Irritation Possible  
Transient Respiratory Irritation Possible

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**PRECAUTIONARY STATEMENTS:**

- **KEEP OUT OF REACH OF CHILDREN**
- **READ LABEL BEFORE USE**
- **IF MEDICAL ADVICE IS NEEDED, HAVE PRODUCT CONTAINER OR LABEL ON HAND**
- **CALL A POISON CENTER / PHYSICIAN IF UNWELL**
- **IF ON SKIN, WASH WITH PLENTY OF SOAP AND WATER**
- **IF SKIN IRRITATION OCCURS, GET MEDICAL ADVICE**
- **IF IN EYES, RINSE CAUTIOUSLY WITH WATER FOR SEVERAL MINUTES – REMOVE CONTACT LENSES**
- **IF EYE IRRITATION PERSISTS, GET MEDICAL ADVICE**
- **DO NOT EAT, DRINK, OR SMOKE WHEN USING PRODUCT**
- **WASH HANDS AFTER HANDLING**
- **USE ONLY OUTDOORS OR IN WELL VENTILATED AREAS**
- **AVOID BREATHING DUST**
- **IF INHALED, REMOVE TO FRESH AIR AND KEEP AT REST IN A POSITION COMFORTABLE FOR BREATHING**
- **STORE CONTAINER TIGHTLY CLOSED, LOCKED UP**
- **DISPOSE OF CONTENTS / CONTAINER IN ACCORDANCE WITH NATIONAL / REGIONAL / LOCAL REGULATIONS**

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

<b><u>CHEMICAL IDENTITY</u></b>	<b><u>SYNONYM</u></b>	<b><u>CAS NUMBER</u></b>	<b><u>CONCENTRATION (%)</u></b>
Proprietary carrier	DG Lite	Mixture	96.6
Carbaryl		63-25-2	2.3

**SECTION 4: First Aid Measures**

**IF INHALED:** Move victim to fresh air. Seek medical attention if irritation persists.

**IF ON SKIN:** Wash affected areas with soap and water. Seek medical attention if irritation persists. Wash contaminated clothing before re-use.

**IF IN THE EYES:** Immediately flush with water for at least 20 minutes. Seek medical attention if irritation persists.

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**IF SWALLOWED:** If victim is alert and not convulsing, give one glass of water to dilute material and induce vomiting. Seek medical attention if problems develop or persist.

**SPECIAL TREATMENT:** Atropine by IV administration is preferable antidote. Oximes may or may not be therapeutic, but is recommended they not be used in place of atropine.  
Suggest serum / RBC cholinesterase determination. Treat symptomatically.

**HEALTH HAZARDS:** See Section 11

### **SECTION 5: FIREFIGHTING MEASURES**

**EXTINGUISHING MEDIA:** Use media suitable for surrounding fire. No special media required

**SPECIFIC FIRE HAZARDS:** Decomposition products may be toxic. Carbaryl may release methyl isocyanate when heated to extremes.

**SPECIAL FIREFIGHTING PROCEDURES:** Wear full protective clothing and positive-pressure self-contained breathing apparatus.

### **SECTION 6: ACCIDENTAL RELEASE MEASURES**

**SPILL / RELEASE PROCEDURES:** Collect spilled product and store to re-use. Contaminated product and/or environmental media should be recovered and disposed of properly. Bifenthrin is highly toxic to fish and aquatic organisms. Keep out of water bodies.

**ENVIRONMENTAL PRECAUTIONS:** Prevent spilled material from entering storm drains or water bodies. **PROTECTIVE EQUIPMENT:** See Section 8

### **SECTION 7: HANDLING AND STORAGE**

Store in a cool, dry, well ventilated area.

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

EXPOSURE LIMITS:

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

<u>HAZARDOUS COMPONENT</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>
DG Lite carrier	15 mg/m <sup>3</sup> (total) 5 mg/m <sup>3</sup> (respirable)	10 mg/m <sup>3</sup> (inhalable) 3 mg/m <sup>3</sup> (respirable)
Carbaryl	5 mg/m <sup>3</sup>	5 mg/m <sup>3</sup>

PERSONAL PROTECTIVE EQUIPMENT / PROTECTION MEASURES / CONTROLS:

RESPIRATORY PROTECTION: NIOSH approved particulate / organic vapor respirator, if required

EYE PROTECTION: Safety glasses with sideshields, goggles, or faceshield recommended

SKIN PROTECTION: Long sleeves, chemical resistant gloves recommended

VENTILATION: Local exhaust ventilation recommended

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

APPEARANCE AND ODOR:	Tan granular mix, with slight odor
pH:	Not available
MELTING POINT:	Not available
BOILING POINT:	Not applicable
FLASH POINT:	Not flammable
EVAPORATION RATE:	Not applicable
FLAMMABLE LIMITS:	Not applicable
VAPOR PRESSURE:	Not applicable
VAPOR DENSITY:	Not applicable

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SPECIFIC GRAVITY:	Not available
SOLUBILITY (IN WATER):	Relatively insoluble
PARTITION COEFFICIENT:	Not applicable
AUTOIGNITION TEMP:	Not applicable
DECOMPOSITION TEMP:	Not applicable

**SECTION 10: STABILITY AND REACTIVITY**

STABILITY: Product is stable. CONDITIONS TO AVOID: Excessive heat

INCOMPATIBILITY: Strong acids, alkalis, oxidizers

HAZARDOUS DECOMPOSITION PRODUCTS: NO<sub>x</sub>, CO<sub>x</sub>, HCl, HF, SO<sub>x</sub>, methyl isocyanate

**SECTION 11: TOXICOLOGICAL INFORMATION**

HEALTH EFFECTS: May be irritating to the skin, nose and respiratory tract, and may cause sore throat, coughing and shortness of breath. Skin irritation, including numbing, burning, or tingling sensations, may result from repeated or prolonged exposure. May also be irritating to the eyes, causing redness and watering. Ingestion may result in abdominal pain, nausea, diarrhea, blurred vision, sweating, salivation, muscle twitching, and tremor. Excessive exposures may produce effects associated with cholinesterase inhibition as well as nose bleeds, tremors, and convulsions. Signs and symptoms include headache, dizziness, incoordination, muscle twitching, tremors, nausea, diarrhea, abdominal cramps, sweating, pupil constriction, blurred vision, salivation, tearing, tightness in the chest, and excessive urination. All symptoms are dose-dependent, rapid in onset, and reversible in time.

CARCINOGENICITY: None of the ingredients are known / listed carcinogens. However, product may contain trace amounts of wood dust and crystalline silica, both of which are listed by IARC as potential human carcinogens.

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**INGREDIENT TOXICITY RANGES:**

ORAL: 175 mg/kg (bifenthrin) – 187 mg/kg

(carbaryl) DERMAL: > 2,020 mg/kg (bifenthrin)

INHALATION: 2.5 mg/l (4 hr) (carbaryl)

**SECTION 12: ECOLOGICAL INFORMATION**

This product is not known to be ecotoxic, persistent, or have the potential to bioaccumulate.

**SECTION 13: DISPOSAL CONSIDERATIONS**

Dispose of in accordance with all national, regional / state, and local regulations.  
Reuse recovered product where possible.

**SECTION 14: TRANSPORT INFORMATION**

This product is not regulated as a transportation hazard.

**SECTION 15: REGULATORY INFORMATION**

EPA Number: 9198-234-92564  
SARA SECTION 302: Not "extremely hazardous substances" SARA  
SECTION 311 / 312 HAZARD CATEGORY: IMMEDIATE HAZARD  
SARA SECTION 313: Carbaryl and bifenthrin listed  
CERCLA RQ: 100 pounds (carbaryl)

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**SECTION 16: OTHER INFORMATION**

ACTIVE INGREDIENT LEVEL (%): 2.30 as carbaryl  
0.058 as bifenthrin

NFPA RATINGS:	HEALTH	2
	FLAMMABILITY	0
	INSTABILITY	0
HMIS RATINGS:	HEALTH	2
	FLAMMABILITY	0
	PHYSICAL HAZARD	0
MSDS ID NO:	1084	
PREPARED BY:	SS	

Reason for Revision: Update emergency contact and product information number.

Date of Previous Revision: 08/01/2017

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