

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

1/7

Revision Date: 08/01/2017

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

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: 1-800-587-2654 (24 hours/day)

Product Information Telephone Number: 1-800-331-2867

SDS Information or Request: SDS@corp.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

<u>CHEMICAL IDENTITY</u>	<u>SYNONYM</u>	<u>CAS NUMBER</u>	<u>CONCENTRATION (%)</u>
Proprietary carrier	DG Lite	Mixture	96.6
Carbaryl		63-25-2	2.4

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 ³ (total) 5 mg/m ³ (respirable)	10 mg/m ³ (inhalable) 3 mg/m ³ (respirable)
Carbaryl	5 mg/m ³	5 mg/m ³

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

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_x, CO_x, HCl, HF, SO_x, 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: New company name and new EPA registration number.

Date of Previous Revision: N/A

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