

**BIOADVANCED SCIENCE-BASED  
SOLUTIONS FUNGUS CONTROL FOR LAWNS  
READY-TO-SPRAY**

Version 1.0 / USA  
102000021987

**1/9**  
Revision Date: 01/23/2019

---

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

**Product identifier**

**Trade name** BIOADVANCED SCIENCE-BASED SOLUTIONS FUNGUS  
CONTROL FOR LAWNS READY-TO-SPRAY

**Product code**

**SDS Number** 102000021987

**EPA Registration No.** 92564-47

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

**Use** Fungicide

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

**Information on manufacturer**

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

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

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

**SDS Information or Request** SDS@sbm-company.com

---

**SECTION 2: HAZARDS IDENTIFICATION**

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

Acute toxicity (Inhalation): Category 4



**Signal word:** Warning

**Hazard statements**

Harmful if inhaled.

**Precautionary statements**

Avoid breathing mist and spray.

Use only outdoors or in a well-ventilated area.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

**BIOADVANCED SCIENCE-BASED  
SOLUTIONS FUNGUS CONTROL FOR LAWNS  
READY-TO-SPRAY**

Version 1.0 / USA  
102000021987

**2/9**  
Revision Date: 01/23/2019

---

Call a POISON CENTER/doctor/physician if you feel unwell.

**Other hazards**

No other hazards known.

---

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

Hazardous Component Name	CAS-No.	Concentration % by weight
Propiconazole	60207-90-1	2.42
Castor oil, ethoxylated	61791-12-6	3.75

---

**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 FUNGUS CONTROL FOR LAWNS  
READY-TO-SPRAY**

Version 1.0 / USA  
102000021987

**3/9**  
Revision Date: 01/23/2019

---

**SECTION 5: FIREFIGHTING MEASURES**

**Extinguishing media**

**Suitable** Water spray, Foam, Carbon dioxide (CO<sub>2</sub>), Dry chemical

**Unsuitable** None known.

**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** > 93.4 °C

**Autoignition temperature** no data available

**Lower explosion limit** no data available

**Upper explosion limit** no data available

---

**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. Do not allow to enter soil, waterways or waste water canal.

**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.

---

**SECTION 7: HANDLING AND STORAGE**

**Precautions for safe handling**

**BIOADVANCED SCIENCE-BASED  
SOLUTIONS FUNGUS CONTROL FOR LAWNS  
READY-TO-SPRAY**

Version 1.0 / USA  
102000021987

**4/9**  
Revision Date: 01/23/2019

**Advice on safe handling**                      Maintain exposure levels below the exposure limit through the use of general and local exhaust ventilation. Handle and open container in a manner as to prevent spillage.

**Advice on protection against fire and explosion**                      No special precautions required.

**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 Personal Protective Equipment (PPE) immediately after handling this product.

**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. Protect from freezing.

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

**Control parameters**

Propiconazole	60207-90-1	70ug/m3 (ST ESL)	07 2011	TX ESL
Propiconazole	60207-90-1	7ug/m3 (AN ESL)	07 2011	TX ESL
Castor oil, ethoxylated	61791-12-6	100ug/m3 (AN ESL)	07 2011	TX ESL
Castor oil, ethoxylated	61791-12-6	1000ug/m3 (ST ESL)	07 2011	TX ESL

No control parameters known.

**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**                                      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.

**BIOADVANCED SCIENCE-BASED  
SOLUTIONS FUNGUS CONTROL FOR LAWNS  
READY-TO-SPRAY**

Version 1.0 / USA  
102000021987

**5/9**

Revision Date: 01/23/2019

---

Do not allow children or pets to enter the treated area until it has dried.

---

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance</b>	white to light beige
<b>Physical State</b>	Liquid
<b>Odor</b>	slight
<b>Odour Threshold</b>	no data available
<b>pH</b>	ca. 7.8
<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>	no data available
<b>Melting / Freezing Point</b>	no data available
<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>Viscosity</b>	no data available
<b>Flash point</b>	> 93.4 °C
<b>Autoignition temperature</b>	no data available
<b>Lower explosion limit</b>	no data available
<b>Upper explosion limit</b>	no data available

---

**SECTION 10: STABILITY AND REACTIVITY**

<b>Reactivity</b>	
<b>Thermal decomposition</b>	no data available
<b>Chemical stability</b>	Stable under recommended storage conditions.
<b>Possibility of hazardous reactions</b>	No hazardous reactions when stored and handled according to prescribed instructions.

**BIOADVANCED SCIENCE-BASED  
SOLUTIONS FUNGUS CONTROL FOR LAWNS  
READY-TO-SPRAY**

Version 1.0 / USA  
102000021987

**6/9**  
Revision Date: 01/23/2019

---

<b>Conditions to avoid</b>	freezing Elevated temperatures
<b>Incompatible materials</b>	no data available
<b>Hazardous decomposition products</b>	No decomposition products expected under normal conditions of use.

---

**SECTION 11: TOXICOLOGICAL INFORMATION**

<b>Exposure routes</b>	Eye contact, Skin contact, Inhalation, Ingestion
<b>Immediate Effects</b>	
<b>Eye</b>	May cause eye irritation.
<b>Skin</b>	Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. May cause slight irritation.
<b>Ingestion</b>	May be harmful if swallowed.
<b>Inhalation</b>	May be harmful if inhaled.
<b>Information on toxicological effects</b>	
<b>Acute oral toxicity</b>	LD50 (female rat) > 5,000 mg/kg
<b>Acute inhalation toxicity</b>	LC50 (female rat) > 2.04 mg/l Exposure time: 4 h Determined in the form of liquid aerosol.  LC50 (female rat) > 8.16 mg/l Exposure time: 1 h Determined in the form of liquid aerosol. Extrapolated from the 4 hr LC50.
<b>Acute dermal toxicity</b>	LD50 (male/female combined rat) > 5,000 mg/kg
<b>Skin irritation</b>	No skin irritation (rabbit)
<b>Eye irritation</b>	No eye irritation (rabbit)
<b>Sensitisation</b>	Non-sensitizing. (guinea pig)

**Assessment repeated dose toxicity**

Propiconazole did not cause specific target organ toxicity in experimental animal studies.

**Assessment Mutagenicity**

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

**Assessment Carcinogenicity**

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

**ACGIH**

None.

**BIOADVANCED SCIENCE-BASED  
SOLUTIONS FUNGUS CONTROL FOR LAWNS  
READY-TO-SPRAY**

Version 1.0 / USA  
102000021987

**7/9**  
Revision Date: 01/23/2019

---

**NTP**

None.

**IARC**

None.

**OSHA**

None.

**Assessment toxicity to reproduction**

Propiconazole did not cause reproductive toxicity in a two-generation study in rats.

**Assessment developmental toxicity**

Propiconazole did not cause developmental toxicity in rats and rabbits.

**Further information**

Only acute toxicity studies have been performed on the formulated product.  
The non-acute information pertains to the active ingredient(s).

---

**SECTION 12: ECOLOGICAL INFORMATION**

<b>Biodegradability</b>	Propiconazole: ; not rapidly biodegradable
<b>Koc</b>	Propiconazole: Koc: 1086
<b>Bioaccumulation</b>	Propiconazole: Bioconcentration factor (BCF) 180; Does not bioaccumulate.
<b>Mobility in soil</b>	Propiconazole: Slightly mobile in soils
<b>Environmental precautions</b>	Drift and runoff from treated areas may be hazardous to aquatic organisms in adjacent sites. Do not allow to get into surface water, drains and ground water. Do not apply when weather conditions favor runoff or drift. Do not contaminate surface or ground water by cleaning equipment or disposal of wastes, including equipment wash water. Apply this product as specified on the label.

---

**SECTION 13: DISPOSAL CONSIDERATIONS**

**Waste treatment methods**

**Product** 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.



**BIOADVANCED SCIENCE-BASED  
SOLUTIONS FUNGUS CONTROL FOR LAWNS  
READY-TO-SPRAY**

Version 1.0 / USA  
102000021987

**8/9**  
Revision Date: 01/23/2019

---

**Contaminated packaging** Triple rinse containers.  
Do not re-use empty containers.  
Place empty container in trash.

**RCRA Information** 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.

---

**SECTION 14: TRANSPORT INFORMATION**

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

Freight Classification: INSECTICIDES OR FUNGICIDES, N.O.I., OTHER THAN POISON

---

**SECTION 15: REGULATORY INFORMATION**

**EPA Registration No.** 92564-47

**US Federal Regulations**

**TSCA list**

Castor oil, ethoxylated 61791-12-6

**US. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpt D)**

None.

**SARA Title III - Section 302 - Notification and Information**

None.

**SARA Title III - Section 313 - Toxic Chemical Release Reporting**

Propiconazole 60207-90-1 25,000lbs

**US States Regulatory Reporting**

**CA Prop65**

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.

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

Propiconazole 60207-90-1 NJ

**Canadian Regulations**

**Canadian Domestic Substance List**

None.

**Environmental**

**CERCLA**

None.

**Clean Water Section 307 Priority Pollutants**





**BIOADVANCED SCIENCE-BASED  
SOLUTIONS FUNGUS CONTROL FOR LAWNS  
READY-TO-SPRAY**

Version 1.0 / USA  
102000021987

**9/9**  
Revision Date: 01/23/2019

---

None.

**Safe Drinking Water Act Maximum Contaminant Levels**

None.

**International Regulations**

**European Inventory of Existing Commercial Substances (EINECS)**

Propiconazole 60207-90-1

**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:** May be harmful by inhalation, ingestion, skin absorption.  
May cause eye irritation.  
May cause skin irritation.  
Avoid breathing spray mist.  
Avoid contact with skin, eyes and clothing.  
Wash thoroughly with soap and water after handling.

---

**SECTION 16: OTHER INFORMATION**

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

Health - 1      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:** Update emergency contact and product information number

**Date of Previous Revision:** 05/01/2017

This information is provided in good faith but without express or implied warranty. The customer assumes all responsibility for safety and use not in accordance with label instructions. The product names are trademarks of SBM Life Science Corp.