

# Material Safety Data Sheet

grubGONE!<sup>®</sup>G

## 1. Chemical Product and Company Information

Product Name.....grubGONE! <sup>®</sup>G  
EPA Registration No.....88347-2  
Ingredient name..... *Bacillus thuringiensis* serovar *galleriae* strain SDS-502  
Class ..... Microbial

## 2. Composition/ Information on Ingredients

Ingredient name: *Bacillus thuringiensis* serovar *galleriae* strain SDS-502  
Concentration: 9.0% w/w  
CAS number: 68038-71-1  
OSHA PEL: Not established  
TWA: Not established  
STEL: Not established  
Inert/Other Ingredients: 91.0% w/w identity a trade secret  
CAS number: NA  
OSHA PEL: Not established  
TWA: Not established  
STEL: Not established

## 3. Hazardous Identification

### Emergency Overview

This product is a tan to dark colored granule with a slightly sweet odor, which is intended for use as a biological insect control. If poisoning is suspected, contact a physician, the nearest hospital, or the nearest Poison Control Center. There is no specific antidote for the product, treat symptomatically.

### HOT LINE NUMBER

Have the product container or label with you when calling your local poison control center or doctor, or going for treatment. You may also contact the American Association of Poison Control Centers at **1-800-222-1222** for emergency medical treatment information.

EPA Signal Word: Caution

### Potential Health Effects

Route(s) of Entry.....	Eyes, skin, oral, inhalation
Human Effects and	
Symptoms of Overexposure.....	May cause irritation of eyes, skin, or respiratory tract
Acute Eye Contact.....	May cause minimal eye irritation
Chronic Eye Contact.....	Chronic exposure not likely from normal use
Acute Skin Contact.....	A skin sensitization (allergic) reaction may occur in sensitive individuals
Chronic Skin Contact.....	Chronic exposure not likely from normal use
Chronic Ingestion.....	Chronic exposure not likely from normal use
Acute Inhalation.....	May cause some irritation, shortness of breath
Chronic Inhalation.....	Chronic exposure not likely from normal use

### Carcinogenicity

- NTP..... N/A
- LARC..... N/A
- OSHA..... N/A

**Medical Conditions**

Aggravated By Exposure: Individuals with allergic history or pre-existing dermatitis should use extra care in handling this product.

**4. First Aid Measures**

Have the product container or label with you when calling a poison control center or doctor, or when going for treatment. For emergency information concerning this product, call the National Pesticide Information Center (NPIC) at 1-800-858-7378 seven days a week, 6:30 am to 4:30 pm, Pacific Time (NPIC Web site: www.npic.orst.edu). During other times, call your poison control center at 1-800-222-1222.

If on skin or clothing:	<ul style="list-style-type: none"> <li>Take off contaminated clothing.</li> <li>Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>Call a poison control center or doctor for treatment advice.</li> </ul>
If inhaled:	<ul style="list-style-type: none"> <li>Move person to fresh air.</li> <li>If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.</li> <li>Call a poison control center or doctor for further treatment advice.</li> </ul>
If swallowed:	<ul style="list-style-type: none"> <li>Call a poison control center or doctor immediately for treatment advice.</li> <li>Have person sip a glass of water if able to swallow.</li> <li>Do not induce vomiting unless told to by a poison control center or doctor.</li> <li>Do not give anything by mouth to an unconscious person.</li> </ul>

**5. Fire Fighting Measures**

NFPA Hazard Classification ..... Health Hazard    1    Fire Hazard    0

..... Reactivity    0

Extinguishing Media ..... Dry chemical, foam, or carbon dioxide

Unusual Fire Fighting Explosion Hazards ..... Thermal decomposition products may include, but are not limited to, CO<sub>2</sub>, H<sub>2</sub>O, and particulate fillers.

Special Fire Fighting Procedures ..... None

**6. Accidental Release Measures**

Spill or Leak Procedures: Recover product and place in an appropriate container for disposal. Avoid breathing dust. Ventilate and wash the spill area

**7. Storage and Disposal**

- Storage Temperature (Min/Max) ..... 32 / 80 F    0 / 27 C
- Shelf Life ..... Stable at Room Temperature
- Special Sensitivity ..... Avoid UV/sunlight, heat and strong alkali conditions to maintain activity
- Do not contaminate water, food or feed by storage or disposal.

Store in a cool, dry place inaccessible to children.
Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.
Nonrefillable container. Do not reuse or refill this container. Completely empty bag into application equipment. Then, offer for recycling if available, dispose of empty bag in a sanitary landfill or by incineration or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

### 8. Personal Protection Equipment (PPE)

Applicators and handlers must wear:

- Long-sleeved shirt and long pants
- Waterproof gloves
- Shoes plus socks

Mixers/loaders and applicators must wear a dust/mist filtering respirator meeting NIOSH standards of at least N-95, R-95, or P-95. Repeated exposure to high concentrations of microbial proteins can cause allergic sensitization.

Follow the manufacturer's instructions for cleaning/maintaining PPE. If no such instructions are available for washables, use detergent and hot water. Keep and wash PPE separately from laundry.

Exposure Limit..... N/A

### 9. Physical and Chemical Properties

Physical Appearance..... Tan Granule  
Odor..... Slightly sweet  
Boiling Point Range..... N/A  
Melt Point / Freeze Point..... N/A  
Flash Point..... N/A  
Auto Ignition..... N/A  
Upper Explosive Limits (UEL)..... Not Determined  
Lower Explosive Limits (LEL)..... Not Determined  
pH..... 6-8  
Solubility in Water..... relatively insoluble  
Specific Gravity/ Density..... 52 lbs/cubic foot  
Bulk Density..... Not Determined  
% Volatile by Weight..... Not Determined  
Vapor Pressure at 20 C..... Not Determined  
Vapor Density..... Not Determined

### 10. Stability and Reactivity

Stability..... Stable  
Hazardous Polymerization..... Not occur  
Incompatibilities..... None known  
Decomposition Products..... None known  
Conditions to Avoid..... None known

### 11. Toxicological Information

Acute Toxicity/ Irritation Studies:

Ingestion or Oral: Test substance Phyllom SDS-502 MP LD 50 Rat >3,000 mg/kg body weight

Dermal: Test substance Phyllom SDS-502 MP LD 50 Rabbit >2,020 mg/kg body weight

Eye Contact: Test substance grubGONE! G end use granule. The test substance is rated minimally irritating and assigned to Toxicity Category IV

Inhalation: Not Available

Skin Contact: See Dermal above

Skin Sensitization:	See Dermal above
Mutagenic Potential	
<i>Bacillus thuringiensis</i>	Not Available
Reproductive Hazard Potential	
<i>Bacillus thuringiensis</i>	Not Available
Chronic/ Subchronic Toxicity Studies	
<i>Bacillus thuringiensis</i>	Not Available
Carcinogenic Potential	
<i>Bacillus thuringiensis</i>	Not Available
Other Toxicity Information	
Not Available	
Target Organs	
Active Ingredients	
<i>Bacillus thuringiensis</i>	Not Available

## 12. Transportation Information

D.O.T. Proper Shipping Name	N/A
Technical Shipping Name	grubGONE! G
D.O.T. Hazard Class	Not Regulated
U.N./ N.A. Number	N/A
Product RQ (lbs.)	N/A
D.O.T. Level	N/A
D.O.T. Placard	N/A

## 13. Regulatory Information

OSHA	N/A
TSCA Status	Exempt
CERCLA Reportable Quantity	None
SARA Title III	
Section 302 Extremely Hazardous	
Hazardous	N/A
Section 311/312	
Hazard Categories	N/A
Section 313	
Toxic Chemicals	N/A
RCRA Status	N/A

### State Regulatory Information

The following chemicals are specially listed by individual state; other product specific health and safety data in other sections of the MSDS may also be applicable for state requirements. For detail on your regulatory requirements you should contact the appropriate agency in your site.