

# Material Safety Data Sheet

grubGONE!<sup>®</sup>G

## 1. Chemical Product and Company Information

Product Name.....grubGONE! <sup>®</sup>G  
PMRA Registration No. .... 33319  
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% wtw 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.

PMRA 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



## 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

### Provincial Regulatory Information

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