



**Material Safety Data Sheet**  
**DELTAGARD® G INSECTICIDE GRANULE**

MSDS Number: 102000003168  
 MSDS Version 2.0  
 Revision Date: 03/17/2006

**SECTION 1. CHEMICAL PRODUCT AND COMPANY INFORMATION**

**Product Name** DELTAGARD® G INSECTICIDE GRANULE  
**MSDS Number** 102000003168  
**EPA Registration No.** 432-836

Bayer Environmental Science  
 2 T.W. Alexander Drive  
 Research Triangle PK, NC 27709  
 USA

For MEDICAL, TRANSPORTATION or other EMERGENCY call: 1-800-334-7577 (24 hours/day)  
 For Product Information call: 1-800-331-2867

**SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS**

| <u>Hazardous Component Name</u> | <u>CAS-No.</u> | <u>Average % by Weight</u> |
|---------------------------------|----------------|----------------------------|
| Deltamethrin                    | 52918-63-5     | 0.10                       |

**SECTION 3. HAZARDS IDENTIFICATION**

*NOTE: Please refer to Section 11 for detailed toxicological information.*

**Emergency Overview** Caution! Harmful if swallowed. Moderate eye irritation. Avoid contact with skin, eyes and clothing. Wash thoroughly with soap and water after handling.

**Physical State** granular solid  
**Odor** slight musty  
**Appearance** tan  
**Routes of Exposure** Ingestion, Eye contact, Skin contact  
**Immediate Effects**  
     **Eye** Moderate eye irritation. Avoid contact with eyes.  
     **Skin** Did not cause sensitization on laboratory animals.  
     **Ingestion** Harmful if swallowed.

**SECTION 4. FIRST AID MEASURES**

**General** When possible, have the product container or label with you when calling a poison control center or doctor or going for treatment.



**Material Safety Data Sheet**

MSDS Number: 102000003168  
MSDS Version 2.0

**DELTAGARD® G INSECTICIDE GRANULE**

|                                     |  |
|-------------------------------------|--|
| <b>Eye</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>Skin</b>                         | Wash off immediately with plenty of water for at least 15 minutes. Take off contaminated clothing and shoes immediately. 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 gulps 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. |
| <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>Notes to Physician Treatment</b> | There is no specific antidote. Appropriate supportive and symptomatic treatment as indicated by the patient's condition is recommended.  |

**SECTION 5. FIRE FIGHTING MEASURES**

|                                     |  |
|-------------------------------------|--|
| <b>Flash Point</b>                  | not applicable   |
| <b>Suitable Extinguishing Media</b> | carbon dioxide (CO2), dry chemical, foam, water  |
| <b>Fire Fighting Instructions</b>   | Keep unnecessary people away, isolate hazard area and deny entry. Dike area to prevent runoff and contamination of water sources. Keep out of smoke. Fight fire from upwind position. Equipment or materials involved in pesticide fires may become contaminated. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.<br><br>Firefighters should wear NIOSH approved self-contained breathing apparatus and full protective clothing. |

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

|                             |   |
|-----------------------------|---|
| <b>Personal Precautions</b> | Keep unauthorized people away. Isolate hazard area. Avoid contact with spilled product or contaminated surfaces. Remove all sources of ignition. Refer to protective measures listed in sections 7 and 8. |
|-----------------------------|---|



**Material Safety Data Sheet**

**DELTAGARD® G INSECTICIDE GRANULE**

MSDS Number: 102000003168  
MSDS Version 2.0

**Methods for Cleaning Up** Sweep up and shovel into suitable containers for disposal. Any disposal practice must be in compliance with all Federal, State/provincial, and local laws and regulations. Clean contaminated floors and objects thoroughly, observing environmental regulations. Decontaminate tools and equipment following cleanup.

**Additional Advice** Take all necessary action to prevent and to remedy the effects of the spill. Contaminated soil may have to be removed and disposed. Do not allow product to contact vegetation. Do not allow product to enter streams, sewers or other waterways. Extremely toxic to fish and aquatic invertebrates. Contact Bayer for further assistance if necessary.

**SECTION 7. HANDLING AND STORAGE**

**Handling Procedures** Handle and open container in a manner as to prevent spillage.

**Storing Procedures** Store in original container in a secured, dry storage area. Prevent cross-contamination with other pesticides and fertilizers. Do not contaminate water, food, or feed by storage or disposal.

**Work/Hygienic Procedures** Handle in accordance with good industrial hygiene and safety practice. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, using the toilet or applying cosmetics.

Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

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.

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

**General Protection** Train employees in safe use of the product. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and warm/tepid water.

**Engineering Controls** Maintain exposure levels below the exposure limit through the use of general and local exhaust ventilation.

**Eye/Face Protection** protective eyewear

**Hand Protection** Wear suitable gloves.

**Body Protection** Wear long-sleeved shirt and long pants and shoes plus socks.

**Respiratory Protection** When respirators are required, select NIOSH approved equipment based on actual or potential airborne concentrations and in accordance with the



**Material Safety Data Sheet**  
**DELTAGARD® G INSECTICIDE GRANULE**

MSDS Number: 102000003168  
 MSDS Version 2.0

appropriate regulatory standards and/or Industry recommendations.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

|                       |  |
|-----------------------|--|
| <b>Appearance</b>     | tan  |
| <b>Physical State</b> | granular solid   |
| <b>Odor</b>           | slight musty   |
| <b>Bulk Density</b>   | 52.3 lb/ft <sup>3</sup> - Fluffed<br>61.2 lb/ft <sup>3</sup> - Compacted |

**SECTION 10. STABILITY AND REACTIVITY**

|   |  |
|---|--|
| <b>Chemical Stability</b>               | Stable under normal conditions.  |
| <b>Incompatibility</b>                  | strong oxidizing agents<br>bases<br>chlorates<br>nitrates                            |
| <b>Hazardous Decomposition Products</b> | Carbon monoxide  |
| <b>Hazardous Reactions</b>              | No hazardous reactions when stored and handled according to prescribed instructions. |

**SECTION 11. TOXICOLOGICAL INFORMATION**

Acute toxicity studies have been bridged from a similar formulation containing a similar percentage of the active ingredient, deltamethrin. The non-acute information pertains to technical-grade deltamethrin.

|                              |   |
|------------------------------|---|
| <b>Acute Oral Toxicity</b>   | rat: LD50: 2,613 mg/kg  |
| <b>Acute Dermal Toxicity</b> | rabbit: LD50: > 5,000 mg/kg   |
| <b>Skin Irritation</b>       | rabbit: No skin irritation.   |
| <b>Eye Irritation</b>        | rabbit: Moderate eye irritation.  |
| <b>Sensitization</b>         | guinea pig: Non-sensitizing.  |
| <b>Chronic Toxicity</b>      | Long-term exposure to deltamethrin caused neurobehavioral effects (e.g., tremors) in chronic toxicity studies in rats and dogs. |



**Material Safety Data Sheet**  
**DELTAGARD® G INSECTICIDE GRANULE**

MSDS Number: 102000003168  
MSDS Version 2.0

**Assessment Carcinogenicity**

Deltamethrin was not carcinogenic in oncogenicity studies in rats and mice.

**ACGIH**

None.

**NTP**

None.

**IARC**

Deltamethrin

52918-63-5

Overall evaluation: 3

**OSHA**

None.

**Reproductive & Developmental Toxicity**

**REPRODUCTION:** Deltamethrin was not a reproductive toxicant in multi-generation reproduction studies in rats.

**DEVELOPMENTAL TOXICITY:** Deltamethrin was not a primary developmental toxicant in developmental toxicity studies in rats and rabbits. Developmental effects (e.g., delayed ossifications) were observed in rabbits at the high-dose but were considered secondary to maternal toxicity.

**Neurotoxicity**

Deltamethrin did not cause delayed neurotoxicity in hens. In acute and subchronic neurotoxicity screening studies in rats, neurobehavioral effects (e.g., tremors) were observed without correlating neuropathological changes.

**Mutagenicity**

Deltamethrin was not mutagenic or genotoxic in a battery of in vitro and in vivo mutagenicity studies.

**SECTION 12. ECOLOGICAL INFORMATION**

**Environmental Precautions**

Extremely toxic to fish and aquatic invertebrates. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Use with care when applying in areas adjacent to any body of water. Do not contaminate surface or ground water by cleaning equipment or disposal of wastes, including equipment wash water.



**Material Safety Data Sheet**  
**DELTAGARD® G INSECTICIDE GRANULE**

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MSDS Version 2.0

**SECTION 13. DISPOSAL CONSIDERATIONS**

- General Disposal Guidance** Do not contaminate water, food, or feed by disposal. Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.
- Container Disposal** Completely empty container into application equipment, then dispose of empty container in a sanitary landfill, by incineration or by other procedures approved by state/provincial and local authorities. 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.

**SECTION 14. TRANSPORT INFORMATION**

- TRANSPORTATION CLASSIFICATION:**  
Not regulated for Domestic Surface Shipment
- FREIGHT TRANSPORTATION:**  
Insecticides or Fungicides, N.O.I., other than poison

**SECTION 15. REGULATORY INFORMATION**

**EPA Registration No.** 432-836

**US Federal Regulations**

**TSCA list**

None.

**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**

None.

**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**

None.

**Canadian Regulations**

**Canadian Domestic Substance List**

None.



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**Environmental**

**CERCLA**

None.

**Clean Water Section 307 Priority Pollutants**

None.

**Safe Drinking Water Act Maximum Contaminant Levels**

None.

**International Regulations**

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

Deltamethrin

52918-63-5

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**SECTION 16. OTHER INFORMATION**

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NFPA 704 (National Fire Protection Association):

Health - 1      Flammability - 1      Reactivity - 0      Others - none

0 = minimal hazard, 1 = slight hazard, 2 = moderate hazard, 3 = severe hazard, 4 = extreme hazard

Reason to Revise: New re-numbering system and sections updated.

Revision Date: 03/17/2006

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