

**DELTAGARD™ G INSECTICIDE GRANULE**

MSDS Version 1.3

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

<b>Product Name</b>	DELTAGARD™ G INSECTICIDE GRANULE
<b>Chemical Name</b>	Mixture; active ingredient, deltamethrin: (s)-alpha-cyano-3-phenoxybenzyl-(1R,3R)-3-(2-2-dibromovinyl) -2,2-dimethyl-cyclopropanecar
<b>Synonym</b>	
<b>MSDS Number</b>	53
<b>Chemical Family</b>	
<b>Chemical Formulation</b>	
<b>EPA Registration No.</b>	432-836
<b>Canadian Registrat. No.</b>	

Bayer Environmental Science  
95 Chestnut Ridge Road  
Montvale, NJ 07645  
USA

For Product Use Information: (800)331-2867 Monday through Friday  
8:00AM-4:30PM

For Medical Emergency contact DART: (800) 334-7577 24 Hours/Day

For Transportation Emergency CHEMTREC: (800) 424-9300 24 Hours/Day

**Product Use Description** DeltaGard G Insecticide Granule is a broad spectrum residual pyrethroid insecticide for the control of major insect pests in turfgrasses and landscape ornamentals (including interior plantscapes) and around the perimeters of structures in residential, commercial and recreational areas.

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

<u>Component Name</u>	<u>CAS No.</u>	<u>Concentration % by Weight</u>	
		<u>Minimum</u>	<u>Maximum</u>
Deltamethrin	52918-63-5	0.1000	
Other ingredients, including:		99.9000	
Trade secret		>	95.0000

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### SECTION 3. HAZARDS IDENTIFICATION

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

<b>Emergency Overview</b>	Harmful if swallowed. Causes moderate eye irritation. This product is extremely toxic to fish.
<b>Physical State</b>	solid
<b>Odor</b>	Strong shoe-polish, mothball and salty solvent like odor
<b>Appearance</b>	tan
<b>Routes of Exposure</b>	Ingestion, eye and skin contact.
<b>Immediate Effects</b>	
<b>Eye</b>	Causes moderate eye irritation.
<b>Ingestion</b>	Harmful if swallowed.
<b>Signs and Symptoms</b>	If swallowed, gastric upset and diarrhea can occur.

### SECTION 4. FIRST AID MEASURES

<b>Eye</b>	Flush eyes with plenty of water. Call a physician if irritation persists.
<b>Ingestion</b>	Call a physician or Poison Control Center. Drink 1 or 2 glasses of water and induce vomiting by touching the back of throat with finger. If person is unconscious, do not give anything to mouth and do not induce vomiting.

### SECTION 5. FIRE FIGHTING MEASURES

<b>Suitable Extinguishing Media</b>	Carbon dioxide, dry chemical, foam or water.
<b>Fire Fighting Instructions</b>	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH approved (or equivalent) and full protective gear.

### SECTION 6. ACCIDENTAL RELEASE MEASURES

<b>General and Disposal</b>	Sweep up and remove to chemical waste area.
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### SECTION 7. HANDLING AND STORAGE

<b>Handling Procedures</b>	Avoid contact with eyes or clothing.
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Food utensils such as spoons and measuring cups must not be used for food purposes after use in measuring pesticides.  
Do not allow children or pets on treated areas until granules have been watered into the soil and the grass or soil is dry.

### Storing Procedures

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

### Work/Hygienic Procedures

Wash thoroughly with soap and water after handling.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Eye/Face Protection

Safety glasses or goggles.

### Body Protection

Impervious gloves.

### Respiratory Protection

A NIOSH-approved respirator is recommended for poorly ventilated application areas.

### Exposure Limits

None Established

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

tan

### Physical State

solid

### Odor

Strong shoe-polish, mothball and salty solvent like odor

### pH

Not applicable

### Vapor Pressure

Not applicable

### Vapor Density (air = 1)

Not applicable

### Specific Gravity

N/A

### Density

52.3 lb/ft<sup>3</sup> or 0.84 g/cm<sup>3</sup> (fluffed)  
61.2 lb/ft<sup>3</sup> or 0.98 g/cm<sup>3</sup> (compacted)

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<b>Boiling Point</b>	Not applicable
<b>Melting/Freezing Point</b>	Not applicable
<b>Solubility (in water)</b>	soluble
<b>Viscosity</b>	Not applicable
<b>Other Information</b>	PERCENT VOLATILES: Not applicable EVAPORATION RATE: Not applicable

### SECTION 10. STABILITY AND REACTIVITY

<b>Chemical Stability</b>	Stable
<b>Incompatibility</b>	Strong oxidizers, bases, chlorates, and nitrates.
<b>Hazardous Products of Decomposition</b>	Ammonia and sulfur trioxide.
<b>Hazardous Polymerization (Conditions to avoid)</b>	Will not occur

### SECTION 11. TOXICOLOGICAL INFORMATION

<b>Acute Oral Toxicity</b>	LD50 (rat) = 2613 mg/kg
<b>Acute Dermal Toxicity</b>	(Rabbit): LD50 > 5,000 mg/kg
<b>Skin Irritation</b>	(Rabbit): Non-irritating
<b>Eye Irritation</b>	(Rabbit) Moderately irritating
<b>Sensitization</b>	(Guinea pig): Negative

THE FOLLOWING DATA WERE DEVELOPED WITH: Deltamethrin Technical, the active ingredient

**Chronic Toxicity** Deltamethrin technical is not carcinogenic based on animal studies.

#### Assessment Carcinogenicity

**ACGIH**  
None

**NTP**  
None

**IARC**  
Deltamethrin

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**OSHA**  
None

**Reproductive & Developmental Toxicity** Deltamethrin is not considered to be a reproductive toxin based on animal studies.

**Teratogenicity** Deltamethrin is not considered to be teratogenic based on animal studies.

### SECTION 12. ECOLOGICAL INFORMATION

**Environmental Precautions** This product is 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 water when disposing of equipment washwaters.

### SECTION 13. DISPOSAL CONSIDERATIONS

**General Disposal Guidance** Do not contaminate water, food or feed by disposal.  
  
Pesticide Disposal: Wastes resulting from use of this product may be disposed of on site or at an approved waste disposal facility.

**Container Disposal** Completely empty bag (by shaking and tapping sides and bottom) into application equipment. Dispose of bag in a sanitary landfill or by incineration if allowed by state and local authorities.

RCRA CLASSIFICATION:  
RCRA HAZARDOUS WASTE INGREDIENT: None

#### RCRA Classification

### SECTION 14. TRANSPORT INFORMATION

PROPER SHIPPING NAME: Not DOT regulated

### SECTION 15. REGULATORY INFORMATION

**US Federal**  
**EPA Registration No.** 432-836  
**TSCA list**  
None  
**TSCA 12b export notification**  
None  
**SARA Title III - section 302 - notification and information**

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None

### SARA Title III - section 313 - toxic chemical release reporting

None

### US States Regulatory

#### 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 Registrat. No.

#### Canadian Domestic Substance List

None

### Environmental

#### CERCLA

None

#### Clean Water Section 307 Priority Pollutants

None

#### Safe Drinking Water Act Maximum Contaminant Levels

None

### International Regulations

#### EU Classification

Deltamethrin

52918-63-5 Toxic Dangerous for the environment

R Phrases

Also toxic by inhalation and if swallowed. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S Phrases

Keep locked-up and out of the reach of children. Avoid contact with the skin. After contact with skin, wash immediately with plenty of water. Wear suitable protective clothing, gloves and eye/face protection. In case of insufficient ventilation, wear suitable respiratory equipment. In case of accident or if you feel unwell, seek medical advice immediately (show label where possible). This material and its container must be disposed of as hazardous waste. Avoid release to the environment. Refer to special instructions/safety data sheets.

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

Deltamethrin

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### SECTION 16. OTHER INFORMATION

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REVISED SECTIONS:

MSDS REVISION INDICATOR: Company name change.

PREPARED BY: Regulatory Department

PHONE: 800-438-5837

SUPERCEDES MSDS DATED: 05/17/2000

Print Date: 12/04/2002

Supersedes MSDS, which is older than: 12/04/2002

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