

Material Safety Data Sheet DELTAGARD® G INSECTICIDE GRANULE

MSDS Number: 102000015309 MSDS Version 1.0 Revision Date: 06/20/2008

SECTION 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Product Name DELTAGARD® G INSECTICIDE GRANULE

MSDS Number 102000015309

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

Hazardous Component NameCAS-No.Average % by WeightDeltamethrin52918-63-50.10

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

Appearance grey to 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. Avoid contact with skin and

clothing.

Ingestion Harmful if swallowed. Do not take internally.

Chronic or Delayed

Long-Term

This product or its components may have long term (chronic) health effects.



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Potential Environmental

Effect

Extremely toxic to fish and aquatic invertebrates.

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.

Hold eye open and rinse slowly and gently with water for 15-20 minutes. Eye

Remove contact lenses, if present, after the first 5 minutes, then continue rinsing

eye. Call a physician or poison control center immediately.

Skin 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.

Ingestion 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.

Inhalation 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.

Notes to Physician

Treatment There is no specific antidote. Appropriate supportive and symptomatic treatment

as indicated by the patient's condition is recommended.

SECTION 5. FIRE FIGHTING MEASURES

Flash point not applicable

Suitable Extinguishing

Media

Carbon dioxide (CO2), Dry chemical, Foam, Water

Fire Fighting Instructions

Keep out of smoke. Fight fire from upwind position. Evacuate personnel to safe areas. Do not allow run-off from fire fighting to enter drains or water courses.

Firefighters should wear NIOSH approved self-contained breathing apparatus

and full protective clothing.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions Keep unauthorized people away. Isolate hazard area. Avoid contact with spilled

product or contaminated surfaces.



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Clean contaminated floors and objects thoroughly, observing environmental **Methods for Cleaning Up**

regulations. Collect and transfer the product into a properly labelled and tightly closed container. Decontaminate tools and equipment following cleanup.

Contaminated soil may have to be removed and disposed.

Additional Advice Do not allow product to contact vegetation. Do not allow to enter soil, waterways

or waste water canal. Contact Bayer for further assistance if necessary.

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

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

exposure levels below the exposure limit through the use of general and local

exhaust ventilation.

Storing Procedures Store in original container. Store in a cool, dry place and in such a manner as to

prevent cross contamination with other pesticides, fertilizers, food, and feed.

Work/Hygienic

Handle in accordance with good industrial hygiene and safety practice. Wash **Procedures** hands thoroughly with soap and water after handling and before eating, drinking.

chewing gum, using tobacco, using the toilet or applying cosmetics.

Remove soiled clothing immediately and clean thoroughly before using again.

Wash thoroughly and put on clean clothing.

Min/Max Storage **Temperatures**

no data available

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. Keep and wash PPE separately from other

laundry.

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



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appropriate regulatory standards and/or industry recommendations.

Exposure Limits

Deltamethrin 52918-63-5 OES BCS* 0.02 mg/m3

*OES BCS: Internal Bayer CropScience "Occupational Exposure Standard"

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance grey to tan

Physical State granular

Bulk Density 55 - 63 lb/ft³

SECTION 10. STABILITY AND REACTIVITY

Incompatibility Strong oxidizing agents

Bases chlorates nitrates

Hazardous Carbon monoxide

Decomposition Products

Hazardous Reactions No hazardous reactions when stored and handled according to prescribed

instructions.

Stable under normal conditions.

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.

Acute Oral Toxicity rat: LD50: 2,613 mg/kg

Acute Dermal Toxicity rabbit: LD50: > 5,000 mg/kg

Skin Irritation rabbit: No skin irritation.

Eye Irritation rabbit: Moderate eye irritation.

Sensitization guinea pig: Non-sensitizing.

Chronic Toxicity Deltamethrin caused neurobehavioral effects (e.g., tremors) in chronic toxicity



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studies in rats and dogs.

Assessment Carcinogenicity

Deltamethrin was not carcinogenic in lifetime feeding 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 caused neurobehavioral effects (e.g., tremors) without correlating

neuropathological changes in acute and subchronic neurotoxicity screening studies in rats. In a developmental neurotoxicity screening study in rats, developmental landmarks were delayed in male offspring at the maternally toxic

high-dose.

Mutagenicity Deltamethrin was not mutagenic or genotoxic in a battery of in vitro and in vivo

tests.

SECTION 12. ECOLOGICAL INFORMATION

Environmental Precautions

Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate surface or ground water by cleaning equipment or disposal of wastes, including equipment wash water. Do not allow to get into surface water, drains and ground water.

SECTION 13. DISPOSAL CONSIDERATIONS

General Disposal Guidance

Do not contaminate water, food, or feed by disposal. Pesticide, spray mixture or rinse water that cannot be used according to label instructions may be disposed of on site or at an approved waste disposal facility. Dispose in accordance with

all local, state/provincial and federal regulations.

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. If burned, stay out of smoke.



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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)

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.

Environmental

CERCLA

None.

Clean Water Section 307 Priority Pollutants

None

Safe Drinking Water Act Maximum Contaminant Levels

None.



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SECTION 16. OTHER INFORMATION

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 Material Safety Data Sheet.

Revision Date: 06/20/2008

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