

DELTAGARD® G INSECTICIDE GRANULE

Version 2.0 / USA Revision Date: 11/10/2014 102000015309 Print Date: 01/23/2017

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product identifier

Trade name DELTAGARD® G INSECTICIDE GRANULE

Product code (UVP) 79020090

SDS Number 102000015309

EPA Registration No. 432-836

Relevant identified uses of the substance or mixture and uses advised against

Use Insecticide

Restrictions on useSee product label for restrictions.

Information on manufacturer

Bayer Environmental Science 2 T.W. Alexander Drive

Research Triangle PK, NC 27709

United States

Emergency telephone no.

Emergency Telephone Number (24hr/ 7 days)

1-800-334-7577

Product Information Telephone Number

SDS Information or Request SDSINFO.BCS-NA@bayer.com

SECTION 2: HAZARDS IDENTIFICATION

Classification in accordance with regulation HCS 29CFR §1910.1200

This material is not hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29CFR 1910.1200.

Other hazards

No particular hazards known.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Component Name CAS-No. Concentration % by weight

Deltamethrin 52918-63-5 0.10



DELTAGARD® G INSECTICIDE GRANULE

Version 2.0 / USA Revision Date: 11/10/2014 102000015309 Print Date: 01/23/2017

SECTION 4: FIRST AID MEASURES

Description of first aid measures

General advice When possible, have the product container or label with you when

calling a poison control center or doctor or going for treatment.

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.

Skin contact 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.

Eye contact 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.

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.

Most important symptoms and effects, both acute and delayed

Symptoms To date no symptoms are known.

Indication of any immediate medical attention and special treatment needed

Treatment Appropriate supportive and symptomatic treatment as indicated by the

patient's condition is recommended. There is no specific antidote.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media

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

Unsuitable None known.

Special hazards arising from the substance or

mixture

Dangerous gases are evolved in the event of a fire.

Advice for firefighters

Special protective equipment for fire-fighters

Firefighters should wear NIOSH approved self-contained breathing

apparatus and full protective clothing.

Further information 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.

Flash point not applicable



DELTAGARD® G INSECTICIDE GRANULE

Version 2.0 / USA Revision Date: 11/10/2014 102000015309 Print Date: 01/23/2017

Autoignition temperatureno data availableLower explosion limitnot applicableUpper explosion limitnot applicableExplosivityno data available

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Precautions Keep unauthorized people away. Isolate hazard area. Avoid contact

with spilled product or contaminated surfaces.

Methods and materials for containment and cleaning up

Methods for cleaning up Clean contaminated floors and objects thoroughly, observing

environmental 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 non-target plants. Do not allow to enter

soil, waterways or waste water canal. Contact Bayer for further

assistance if necessary.

Reference to other sections 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

Precautions for safe handling

Advice on safe handling 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.

Hygiene measures Wash 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.

Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers

Store in original container. Store in a cool, dry place and in such a manner as to prevent cross contamination with other crop protection

products, fertilizers, food, and feed.



DELTAGARD® G INSECTICIDE GRANULE

Version 2.0 / USA Revision Date: 11/10/2014 102000015309 Print Date: 01/23/2017

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Components	CAS-No.	Control parameters	Update	Basis
Deltamethrin	52918-63-5	0.02 mg/m3 (TWA)		OES BCS*
Calcium sulfate (Inhalable fraction.)	13397-24-5	10 mg/m3 (TWA)	02 2012	ACGIH
Calcium sulfate (Total)	13397-24-5	10 mg/m3 (REL)	2010	NIOSH
Calcium sulfate (Respirable.)	13397-24-5	5 mg/m3 (REL)	2010	NIOSH
Calcium sulfate (Total dust.)	13397-24-5	15 mg/m3 (PEL)	02 2006	OSHA Z1
Calcium sulfate (Respirable fraction.)	13397-24-5	5 mg/m3 (PEL)	02 2006	OSHA Z1
Calcium sulfate (Total dust.)	13397-24-5	15 mg/m3 (TWA)	1989	OSHA Z1A
Calcium sulfate (Respirable fraction.)	13397-24-5	5 mg/m3 (TWA)	1989	OSHA Z1A
Calcium sulfate	13397-24-5	5ug/m3 (AN ESL)	03 2012	TX ESL
Calcium sulfate	13397-24-5	50ug/m3 (ST ESL)	03 2012	TX ESL

No control parameters known.

Exposure controls

Personal protective equipment

In normal use and handling conditions please refer to the label and/or leaflet. In all other cases the following recommendations would apply.

Respiratory protection When respirators are required, select NIOSH approved equipment

based on actual or potential airborne concentrations and in

accordance with the appropriate regulatory standards and/or industry

recommendations.

Hand protection Chemical resistant nitrile rubber gloves

Eye protection Safety glasses with side-shields

Skin and body protection Wear long-sleeved shirt and long pants and shoes plus socks.

General protective measures 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.

^{*}OES BCS: Internal Bayer CropScience "Occupational Exposure Standard"



DELTAGARD® G INSECTICIDE GRANULE

 Version 2.0 / USA
 Revision Date: 11/10/2014

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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearancegrey to tanPhysical StategranularOdorslight

Odour Threshold no data available рΗ no data available **Vapor Pressure** no data available Vapor Density (Air = 1) no data available 55 - 63 lb/ft3 **Bulk density Evapouration rate** not applicable **Boiling Point** not applicable **Melting / Freezing Point** not applicable Water solubility insoluble

Minimum Ignition Energyno data availableDecompositionno data availabletemperature

Partition coefficient: n-

octanol/water

not applicable

Viscosity

not applicable

Flash point not applicable

Autoignition temperatureno data availableLower explosion limitnot applicableUpper explosion limitnot applicableExplosivityno data available

SECTION 10: STABILITY AND REACTIVITY

Reactivity

Thermal decomposition no data available

Chemical stability Stable under normal conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Bayer Environmental Science

SAFETY DATA SHEET



DELTAGARD® G INSECTICIDE GRANULE

Version 2.0 / USA Revision Date: 11/10/2014 102000015309 Print Date: 01/23/2017

Conditions to avoid no data available

Incompatible materials Strong oxidizing agents, Bases, Chlorates, Nitrates

Hazardous decomposition

products

No decomposition products expected under normal conditions of use.

SECTION 11: TOXICOLOGICAL INFORMATION

Exposure routes Ingestion, Eye contact, Skin contact

Immediate Effects

Eye Moderate eye irritation.

Ingestion Harmful if swallowed.

Information on toxicological effects

Acute oral toxicity LD50 (rat) 2,613 mg/kg

Acute dermal toxicity LD50 (rabbit) > 5,000 mg/kg

Skin irritation No skin irritation (rabbit)

Eye irritation Moderate eye irritation. (rabbit)

Sensitisation Non-sensitizing. (guinea pig)

Assessment repeated dose toxicity

Deltamethrin caused neurobehavioral effects and/or neuropathological changes in animal studies. The toxic effects of Deltamethrin are related to transient hyperactivity typical for pyrethroid neurotoxicity.

Assessment Mutagenicity

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

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.

Assessment toxicity to reproduction



DELTAGARD® G INSECTICIDE GRANULE

Version 2.0 / USA Revision Date: 11/10/2014 102000015309 Print Date: 01/23/2017

Deltamethrin did not cause reproductive toxicity in a two-generation study in rats.

Assessment developmental toxicity

Deltamethrin caused developmental toxicity only at dose levels toxic to the dams. The developmental effects seen with Deltamethrin are related to maternal toxicity.

Further information

Acute toxicity studies have been bridged from a similar formulation(s).

The non-acute information pertains to the active ingredient(s).

SECTION 12: ECOLOGICAL INFORMATION

Toxicity to fish LC50 (Oncorhynchus mykiss (rainbow trout)) 0.00091 mg/l

Exposure time: 96 h

The value mentioned relates to the active ingredient deltamethrin.

Toxicity to aquatic

invertebrates

EC50 (Daphnia magna (Water flea)) 0.00056 mg/l

Exposure time: 48 h

The value mentioned relates to the active ingredient deltamethrin.

Toxicity to aquatic plants EC50 (Algae) > 9.1 mg/l

Exposure time: 96 h

The value mentioned relates to the active ingredient deltamethrin.

Biodegradability Deltamethrin: ; not rapidly biodegradable

Koc Deltamethrin: Koc: 10240000

Bioaccumulation Deltamethrin: Bioconcentration factor (BCF) 1,400; Does not

bioaccumulate.

Mobility in soil Deltamethrin: Immobile in soil

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

Waste treatment methods

Product Do not contaminate water, food, or feed by disposal.

Dispose in accordance with all local, state/provincial and federal

regulations.

Contaminated packaging 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.

Bayer Environmental Science

SAFETY DATA SHEET



DELTAGARD® G INSECTICIDE GRANULE

Version 2.0 / USA Revision Date: 11/10/2014 102000015309 Print Date: 01/23/2017

RCRA Information Characterization and proper disposal of this material as a special or

hazardous waste is dependent upon Federal. State and local laws and

are the user's responsibility. RCRA classification may apply.

SECTION 14: TRANSPORT INFORMATION

49CFR Not dangerous goods / not hazardous material

IMDG

UN number 3077
Class 9
Packaging group III
Marine pollutant YES

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,

N.O.S.

(DELTAMETHRIN MIXTURE)

IATA

UN number 3077
Class 9
Packaging group III
Environm. Hazardous Mark YES

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,

N.O.S.

(DELTAMETHRIN MIXTURE)

This transportation information is not intended to convey all specific regulatory information relating to this product. It does not address regulatory variations due to package size or special transportation requirements.

Freight Classification: 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



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Version 2.0 / USA Revision Date: 11/10/2014 102000015309 Print Date: 01/23/2017

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.

International Regulations

European Inventory of Existing Commercial Substances (EINECS)

Deltamethrin 52918-63-5

EPA/FIFRA Information:

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information required on the pesticide label:

Signal word: Caution!

Hazard statements: Harmful if swallowed.

Moderate eye irritation.

Avoid contact with skin, eyes and clothing.

Wash thoroughly with soap and water after handling.

SECTION 16: OTHER INFORMATION

NFPA 704 (National Fire Protection Association):

Health - 1 Flammability - 1 Instability - 0 Others - none

HMIS (Hazardous Materials Identification System, based on the Third Edition Ratings Guide)

Health - 1 Flammability - 1 Physical Hazard - 0 PPE -

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



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Reason for Revision: Revised according to the current OSHA Hazard Communication Standard (29CFR1910.1200)

Revision Date: 11/10/2014

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