

DELTAGARD® SC INSECTICIDE

Version 3.0 / CDN 10200003167

1/10 Revision Date: 05/31/2019 Print Date: 06/01/2019

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

Product identifier	
Trade name	DELTAGARD® SC INSECTICIDE
Product code (UVP)	05946468
SDS Number	10200003167
PCP Registration No.	28791
Relevant identified uses of th	e substance or mixture and uses advised against
Use	Insecticide
Restrictions on use	See product label for restrictions.
Information on supplier	
Supplier	Bayer CropScience Inc #200, 160 Quarry Park Blvd, SE Calgary, Alberta T2C 3G3 Canada
Responsible Department	Email: SDSINFO.BCS-NA@bayer.com
Emergency telephone no.	
Emergency Telephone Number (24hr/ 7 days)	1-800-334-7577
Product Information Telephone Number	1-888-283-6847

SECTION 2: HAZARDS IDENTIFICATION

Classified in accordance with Part 2 of the Hazardous Products Regulations

This material is not hazardous under the criteria of Part 2 of the Hazardous Products Regulation.

Hazards Not Otherwise Classified (HNOC)

No physical hazards not otherwise classified. No health hazards not otherwise classified.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Component Name	CAS-No.	Concentration % by weight
Deltamethrin	52918-63-5	4.75
Nonylphenol ethoxylate	68412-54-4	2.85

DELTAGARD® SC INSECTICIDE

Version 3.0 / CDN 10200003167

2/10

2/10 Revision Date: 05/31/2019 Print Date: 06/01/2019

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	High volume water jet
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 firefighters	Firefighters should wear NIOSH approved self-contained breathing apparatus and full protective clothing.
Further information	Evacuate personnel to safe areas. Keep out of smoke. Fight fire from upwind position. Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses.



DELTAGARD® SC INSECTICIDE

Version 3.0 / CDN 10200003167

3/10 Revision Date: 05/31/2019 Print Date: 06/01/2019

No data available
No data available
No data available
No data available
Not applicable

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures		
Precautions	Isolate hazard area. Keep unauthorized people away. Avoid contact with spilled product or contaminated surfaces.	
Methods and materials for containment and cleaning up		
Methods for cleaning up	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Collect and transfer the product into a properly labelled and tightly closed container. Decontaminate tools and equipment following cleanup. Clean contaminated floors and objects thoroughly, observing environmental regulations.	
Additional advice	Use personal protective equipment. If the product is accidentally spilled, do not allow to enter soil, waterways or waste water canal.	
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	Avoid contact with skin, eyes and clothing. 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.	
Advice on protection against fire and explosion	Keep away from heat and sources of ignition.	
Hygiene measures	Smoking, eating and drinking should be prohibited in the application area. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, using the toilet or applying cosmetics. Remove Personal Protective Equipment (PPE) immediately after handling this product. Before removing gloves clean them with soap and water. Remove soiled clothing immediately and clean thoroughly before using again. Wash thoroughly and put on clean clothing.	

Conditions for safe storage, including any incompatibilities



DELTAGARD® SC INSECTICIDE

Version 3.0 / CDN 10200003167

4/10 Revision Date: 05/31/2019 Print Date: 06/01/2019

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. Protect from freezing.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Components	CAS-No.	Control parameters	Update	Basis
Deltamethrin	52918-63-5	0.01 mg/m3 (TWA)		OES BCS*
1,2-Propanediol (Aerosol.)	57-55-6	10 mg/m3 (TWA)	11 2010	CAD ON OEL
1,2-Propanediol (Vapor and aerosol.)	57-55-6	155 mg/m3/50 ppm (TWA)	06 2015	CAD ON OEL

*OES BCS: Internal Bayer AG, Crop Science Division "Occupational Exposure Standard"

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 gloves made of waterproof material such as neoprene, butyl rubber, barrier laminate or nitrile rubber.
Eye protection	Tightly fitting safety goggles
Skin and body protection	Wear long-sleeved shirt and long pants and shoes plus socks.
General protective measures	Eye wash facility and safety shower should be available. 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 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	white
Physical State	suspension
Odor	none
Odour Threshold	No data available

DELTAGARD® SC INSECTICIDE

Version 3.0 / CDN 10200003167



5/10 Revision Date: 05/31/2019 Print Date: 06/01/2019

рН	<= 7.0 (100 %) (23 °C)
Vapor Pressure	No data available
Vapor Density (Air = 1)	No data available
Density	ca. 1.05 g/cm ³ (20 °C)
Evaporation rate	No data available
Boiling Point	No data available
Melting / Freezing Point	No data available
Water solubility	immiscible
Minimum Ignition Energy	Not applicable
Decomposition temperature	No data available
Partition coefficient: n- octanol/water	No data available
Viscosity	1,300 - 1,800 cps (25 °C)
Flash point	No data available
Auto-ignition temperature	No data available
Lower explosion limit	No data available
Upper explosion limit	No data available
Explosivity	Not applicable

SECTION 10: STABILITY AND REACTIVITY

Reactivity	
Thermal decomposition	No data available
Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	No hazardous reactions when stored and handled according to prescribed instructions.
Conditions to avoid	freezing
Incompatible materials	Strong oxidizing agents, Strong reducing agents
Hazardous decomposition products	No decomposition products expected under normal conditions of use.

SECTION 11: TOXICOLOGICAL INFORMATION

Exposure routes



DELTAGARD® SC INSECTICIDE

Version 3.0 / CDN 10200003167

6/10 Revision Date: 05/31/2019 Print Date: 06/01/2019

Immediate Effects Eye	Severe eye irritation.			
Skin	May cause sensitisation by skin contact. Severe skin irritation.			
Inhalation	Harmful if inhaled.			
Information on toxicological effects				
Acute oral toxicity	LD50 (Rat) > 15,000 mg/kg			
Acute inhalation toxicity	LC50 (Rat) > 1.02 mg/l Exposure time: 4 h Determined in the form of liquid aerosol. Highest attainable concentration. No deaths			
Acute dermal toxicity	LD50 (Rabbit) > 10,000 mg/kg			
Skin corrosion/irritation	slight irritation (Rabbit)			
Serious eye damage/eye irritation	Minimally irritating. (Rabbit)			
Respiratory or skin sensitisation	Skin: Non-sensitizing. (Guinea pig)			

Assessment STOT Specific target organ toxicity - repeated exposure

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

None.

Assessment toxicity to reproduction

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



DELTAGARD® SC INSECTICIDE

Version 3.0 / CDN 10200003167

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)) 0.15 µg/l Exposure time: 96 h The value mentioned relates to the active ingredient deltamethrin.	
Toxicity to aquatic invertebrates	EC50 (Daphnia magna (Water flea)) 0.0131 μg/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	
Кос	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 apply this product or allow it to drift to blooming crops or weeds if bees are visiting the treatment area. Apply this product as specified on the label.	

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. Follow advice on product label and/or leaflet. 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.

DELTAGARD® SC INSECTICIDE

Version 3.0 / CDN 10200003167

BAYER ER R

8/10 Revision Date: 05/31/2019 Print Date: 06/01/2019

Contaminated packaging Triple rinse containers. Add washings to sprayer at time of filling. Puncture container to avoid re-use. Dispose of empty container in a sanitary landfill or by incineration, or, if allowed by State/Provincial and local authorities, by burning. If burned, stay out of smoke. Follow advice on product label and/or leaflet.

SECTION 14: TRANSPORT INFORMATION

TDG UN number Labels Packaging group Marine pollutant Proper shipping name	3082 9 III Marine pollutant ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (DELTAMETHRIN)
49CFR	Not dangerous goods / not hazardous material
IMDG UN number Class Packaging group Marine pollutant Proper shipping name	3082 9 III YES ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (DELTAMETHRIN SOLUTION)
IATA UN number Class Packaging group Environm. Hazardous Mark Proper shipping name	3082 9 III YES ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (DELTAMETHRIN SOLUTION)

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.

Further Information

Exempt from regulation when transported by road or rail, in accordance with TDG Regulations 1.45.1. This exemption provides that this product does not require dangerous goods shipping documentation or safety marks when transported on land by road or rail.



DELTAGARD® SC INSECTICIDE

Version 3.0 / CDN 10200003167

9/10 Revision Date: 05/31/2019 Print Date: 06/01/2019

Freight Classification:

INSECTICIDES OR FUNGICIDES, N.O.I., OTHER THAN POISON

SECTION 15: REGULATORY INFORMATION

PCP Registration No. 28791

SECTION 16: OTHER INFORMATION

Abbreviations and acronyms						
49CFR	Code of Federal Regulations, Title 49					
ACGIH		US. ACGIH Threshold Limit Values				
ATE	Acute toxicity estir	Acute toxicity estimate				
CAS-Nr.	Chemical Abstrac	Chemical Abstracts Service number				
CERCLA	Comprehensive E	Comprehensive Environmental Response, Compensation, and Liability Act				
EINECS	European invento	European inventory of existing commercial substances				
ELINCS		European list of notified chemical substances				
IARC	International Agency for Research on Cancer					
ΙΑΤΑ		International Air Transport Association				
IMDG		International Maritime Dangerous Goods				
N.O.S.	Not otherwise specified					
NTP	US. National Toxicology Program (NTP) Report on Carcinogens					
OECD	Organization for Economic Co-operation and Development					
TDG	Transportation of Dangerous Goods					
TWA	Time weighted average					
UN	United Nations					
WHO World health organisation						
NFPA 704 (National Fire Protection Association):						
Health - 2	Flammability - 1	Instability - 0	Others - none			
-		System, based on the Physical Hazard - 0	Third Edition Ratings Guide) PPE -			
0 = minimal hazard, 1 = slight hazard, 2 = moderate hazard, 3 = severe hazard, 4 = extreme hazard						

Reason for Revision: The following sections have been revised: Section 3: Composition / Information on Ingredients. Section 8: Exposure Controls / Personal Protection. Section 12. Ecological information. Reviewed and updated for general editorial purposes.

Prepared by the HSE Department of Bayer CropScience Inc. (306)-721-0310.

Revision Date: 05/31/2019

This information is provided in good faith but without express or implied warranty. The customer assumes all responsibility for safety and use not in accordance with label instructions. The product names are

DELTAGARD® SC INSECTICIDE

Version 3.0 / CDN 10200003167



10/10 Revision Date: 05/31/2019 Print Date: 06/01/2019

registered trademarks of Bayer.