



## Safety Data Sheet

### BAYER ADVANCED™ SEASON LONG GRUB CONTROL INSECTICIDE READY-TO-SPREAD-GRANULES

SDS Number: 102000027988

SDS Version 1.0

Revision Date: 02/25/2013

Print Date: 12/05/2013

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

<b>Product name</b>	BAYER ADVANCED™ SEASON LONG GRUB CONTROL INSECTICIDE READY-TO-SPREAD-GRANULES
<b>SDS Number</b>	102000027988
<b>Product code (UVP)</b>	80857500
<b>PCP Registration No.</b>	29738
<b>Product Use</b>	Insecticide

Bayer CropScience Inc  
#200, 160 Quarry Park Blvd, SE  
Calgary, Alberta T2C 3G3  
Canada

For MEDICAL, TRANSPORTATION or other EMERGENCY call: 1-800-334-7577 (24 hours/day)  
For Product Information call: 1-888-283-6847

#### SECTION 2. HAZARDS IDENTIFICATION

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

<b><u>Emergency Overview</u></b>	Caution! Harmful if swallowed or absorbed through skin. Causes eye irritation. Avoid contact with skin, eyes and clothing. Wash thoroughly with soap and water after handling.
<b>Physical State</b>	granular
<b>Odor</b>	characteristic
<b>Appearance</b>	tan
<b>Exposure routes</b>	Skin Absorption, Eye contact, Ingestion, Inhalation
<b>Immediate Effects</b>	
<b>Eye</b>	Causes eye irritation. Do not get in eyes.
<b>Skin</b>	May cause irritation. Harmful if absorbed through skin. Avoid contact with skin and clothing.
<b>Ingestion</b>	Harmful if swallowed. Do not take internally.
<b>Inhalation</b>	Dusts may cause upper respiratory tract irritation, coughing. Avoid breathing dust.



**Safety Data Sheet**

SDS Number: 102000027988  
SDS Version 1.0

**BAYER ADVANCED™ SEASON LONG GRUB CONTROL  
INSECTICIDE READY-TO-SPREAD-GRANULES**

**Medical Conditions Aggravated by Exposure** No specific medical conditions are known which may be aggravated by exposure to this product.

**Potential Environmental Effect** Highly toxic to aquatic invertebrates. Toxic to birds. Toxic to bees.

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

<u>Hazardous Component Name</u>	<u>CAS-No.</u>	<u>Average % by Weight</u>
Imidacloprid	138261-41-3	0.25

**SECTION 4. FIRST AID MEASURES**

<b>General</b>	When possible, have the product container or label with you when calling a poison control center or doctor or going for treatment.
<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>	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.
<b>Ingestion</b>	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.
<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>	Appropriate supportive and symptomatic treatment as indicated by the patient's condition is recommended. There is no specific antidote.

**SECTION 5. FIRE FIGHTING MEASURES**

<b>Flash point</b>	not applicable
<b>Autoignition temperature</b>	no data available



**Safety Data Sheet**

**BAYER ADVANCED™ SEASON LONG GRUB CONTROL  
INSECTICIDE READY-TO-SPREAD-GRANULES**

SDS Number: 102000027988  
SDS Version 1.0

<b>Lower Flammability Limit</b>	no data available
<b>Upper Flammability Limit</b>	no data available
<b>Explosiveness</b>	no data available
<b>Fire and Explosion Hazards</b>	Dangerous gases are evolved in the event of a fire.  Accumulation of fine dust may entail the risk of a dust explosion in the presence of air.
<b>Suitable extinguishing media</b>	Water, Carbon dioxide (CO2), Dry chemical, Foam
<b>Fire Fighting Instructions</b>	Keep out of smoke. Fight fire from upwind position. 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**

<b>Personal precautions</b>	Keep unauthorized people away. Isolate hazard area. Avoid contact with spilled product or contaminated surfaces.
<b>Methods for cleaning up</b>	Avoid dust formation. Sweep up or vacuum up spillage and collect in suitable container for disposal. Clean contaminated floors and objects thoroughly, observing environmental regulations.
<b>Additional advice</b>	Use personal protective equipment. Do not allow to enter soil, waterways or waste water canal.

**SECTION 7. HANDLING AND STORAGE**

<b>Handling procedures</b>	Handle and open container in a manner as to prevent spillage.
<b>Storing Procedures</b>	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. Store in original container and out of the reach of children, preferably in a locked storage area.
<b>Work/Hygienic Procedures</b>	Remove Personal Protective Equipment (PPE) immediately after handling this product. Before removing gloves clean them with soap and water. Remove



**Safety Data Sheet**

**BAYER ADVANCED™ SEASON LONG GRUB CONTROL  
INSECTICIDE READY-TO-SPREAD-GRANULES**

SDS Number: 102000027988  
SDS Version 1.0

soiled clothing immediately and clean thoroughly before using again. Wash thoroughly and put on clean clothing.

Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, using the toilet or applying cosmetics.

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

<b>General Protection</b>	There are no known hazards associated with this product when used according to the label directions. The following guidelines should be followed.  Avoid breathing dust. Avoid contact with skin and eyes.  Do not allow children or pets to enter the treated area until granules have been watered into the soil and the grass or soil is dry.
<b>Eye/Face Protection</b>	Safety glasses with side-shields
<b>Hand protection</b>	Chemical resistant nitrile rubber gloves
<b>Body Protection</b>	Wear long-sleeved shirt and long pants and shoes plus socks.
<b>Respiratory protection</b>	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.

**Exposure Limits**

Imidacloprid	138261-41-3	OES BCS*	TWA	0.7 mg/m3
--------------	-------------	----------	-----	-----------

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

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance</b>	tan
<b>Physical State</b>	granular
<b>Odor</b>	characteristic
<b>pH</b>	ca. 5.3 (10 %)
<b>Vapor Pressure</b>	no data available
<b>Vapor Density (Air = 1)</b>	no data available



## Safety Data Sheet

SDS Number: 102000027988  
SDS Version 1.0

### BAYER ADVANCED™ SEASON LONG GRUB CONTROL INSECTICIDE READY-TO-SPREAD-GRANULES

<b>Bulk density</b>	27 - 36 lb/ft <sup>3</sup>
<b>Evaporation rate</b>	not applicable
<b>Boiling Point</b>	not applicable
<b>Melting / Freezing Point</b>	not applicable
<b>Water solubility</b>	soluble
<b>Minimum Ignition Energy</b>	no data available
<b>Partition coefficient: n-octanol/water</b>	no data available
<b>Viscosity</b>	not applicable

#### SECTION 10. STABILITY AND REACTIVITY

<b>Conditions to avoid</b>	Heat, flames and sparks.
<b>Hazardous Decomposition Products</b>	Thermal decomposition Carbon monoxide Nitrogen oxides (NO <sub>x</sub> )
<b>Hazardous reactions</b>	No dangerous reaction known under conditions of normal use.
<b>Chemical Stability</b>	Stable under recommended storage conditions.

#### SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity studies have not been conducted on this product as formulated. The acute toxicity data provided has been bridged from a similar product, Merit 0.5% on 32-5-7 Granular Fertilizer. The non-acute information pertains to the active ingredient, imidacloprid technical.

<b>Acute oral toxicity</b>	male/female combined rat: LD50: > 5,136 mg/kg
<b>Acute dermal toxicity</b>	male/female combined rat: LD50: > 2,000 mg/kg



## Safety Data Sheet

### BAYER ADVANCED™ SEASON LONG GRUB CONTROL INSECTICIDE READY-TO-SPREAD-GRANULES

SDS Number: 102000027988  
SDS Version 1.0

<b>Acute inhalation toxicity</b>	male/female combined rat: LC50: > 5.016 mg/l Exposure time: 4 h Determined in the form of dust. (actual)
	male/female combined rat: LC50: > 20 mg/l Exposure time: 1 h Determined in the form of dust. Extrapolated from the 4 hr LC50. (actual)
<b>Skin irritation</b>	rabbit: Mild skin irritation.
<b>Eye irritation</b>	rabbit: Mild eye irritation.
<b>Sensitisation</b>	guinea pig: Non-sensitizing.
<b>Chronic toxicity</b>	Imidacloprid did not cause specific target organ toxicity in experimental animal studies.
<b>Assessment Carcinogenicity</b>	Imidacloprid was not carcinogenic in lifetime feeding studies in rats and mice.
<b>ACGIH</b>	None.
<b>NTP</b>	None.
<b>IARC</b>	None.
<b>OSHA</b>	None.
<b>Reproductive toxicity</b>	Imidacloprid caused reproduction toxicity in a two-generation study in rats only at dose levels also toxic to the parent animals. The reproduction toxicity seen with Imidacloprid is related to parental toxicity.
<b>Developmental Toxicity</b>	Imidacloprid caused developmental toxicity only at dose levels toxic to the dams. The developmental effects seen with Imidacloprid are related to maternal toxicity.
<b>Mutagenicity</b>	Imidacloprid was not mutagenic or genotoxic based on the overall weight of evidence in a battery of in vitro and in vivo tests.

## SECTION 12. ECOLOGICAL INFORMATION



## Safety Data Sheet

### BAYER ADVANCED™ SEASON LONG GRUB CONTROL INSECTICIDE READY-TO-SPREAD-GRANULES

SDS Number: 102000027988  
SDS Version 1.0

**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. Apply this product as specified on the label.

#### SECTION 13. DISPOSAL CONSIDERATIONS

**General Disposal Guidance** 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.

**Container Disposal** Do not re-use empty containers. Place empty container in trash. Follow advice on product label and/or leaflet.

#### SECTION 14. TRANSPORT INFORMATION

According to national and international transport regulations this material is not classified as dangerous goods / hazardous material.

#### SECTION 15. REGULATORY INFORMATION

**PCP Registration No.** 29738

##### 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.

##### Environmental



**Safety Data Sheet**

**BAYER ADVANCED™ SEASON LONG GRUB CONTROL  
INSECTICIDE READY-TO-SPREAD-GRANULES**

SDS Number: 102000027988  
SDS Version 1.0

**CERCLA**

None.

**Clean Water Section 307 Priority Pollutants**

None.

**Safe Drinking Water Act Maximum Contaminant Levels**

None.

**SECTION 16. OTHER INFORMATION**

NFPA 704 (National Fire Protection Association):

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

HMS (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

Reason for Revision: New Safety Data Sheet.

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

Revision Date: 02/25/2013

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 registered trademarks of Bayer.