



**Material Safety Data Sheet**

**PREMISE® GRANULES**

MSDS Number: 102000007119  
MSDS Version 1.4  
Revision Date: 02/09/2011  
Print Date: 02/17/2011

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

**Product name** PREMISE® GRANULES  
**MSDS Number** 102000007119  
**EPA Registration No.** 432-1385

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. HAZARDS IDENTIFICATION**

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

**Emergency Overview** 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.

**Physical State** solid granular  
**Odor** none  
**Appearance** grey  
**Exposure routes** Eye contact, Skin Absorption, Skin contact, Ingestion  
**Immediate Effects**  
**Eye** Causes eye irritation. Do not get in eyes.  
**Skin** Harmful if absorbed through skin. Avoid contact with skin and clothing.  
**Ingestion** Do not take internally. Harmful if swallowed.



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**Chronic or Delayed Long-Term** This product is not listed as a carcinogen by ACGIH, NTP, IARC or OSHA. However, it may contain crystalline silica (quartz), a substance which has been listed as a carcinogen by ACGIH, NTP and IARC. Crystalline silica is a naturally-occurring mineral component of many sands and clays. Although the carcinogenic potential of crystalline silica in humans is controversial, it must be considered if it is inhaled under excessive exposure conditions. The respirable portion of the silica that may be contained in this product, however, is small, such that inhalation exposure during anticipated conditions of use is minimal.

This product or its components may have target organ effects.

**Medical Conditions Aggravated by Exposure** No specific medical conditions are known which may be aggravated by exposure to this product. As with all materials which can cause upper respiratory tract irritation, persons with a history of asthma, emphysema, or hyperreactive airways disease may be more susceptible to overexposure. Pulmonary and respiratory diseases may be aggravated by exposure to respirable crystalline silica.

**Potential Environmental Effect** Highly toxic to aquatic invertebrates.

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

<u>Hazardous Component Name</u>	<u>CAS-No.</u>	<u>Average % by Weight</u>
Imidacloprid	138261-41-3	0.50
Quartz (Silica, Crystalline)	14808-60-7	3.82

**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.

**Eye** 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.

**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



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poison control center immediately.

**Notes to physician  
Treatment**

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>Suitable extinguishing media</b>	Water, Carbon dioxide (CO <sub>2</sub> ), Dry chemical, Foam
<b>Fire Fighting Instructions</b>	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.  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. Maintain exposure levels below the exposure limit through the use of general and local exhaust ventilation.
<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.  The 30-day storage temperature average must not exceed the recommended maximum.



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**Work/Hygienic Procedures**      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.

Remove Personal Protective Equipment (PPE) immediately after handling this product. Before removing gloves clean them with soap and water. Wash thoroughly and put on clean clothing.

**Min/Max Storage Temperatures**      Recommended maximum transport/storage temperature: 38 °C / 100 °F

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

**General Protection**      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.

Train employees in safe use of the product. Follow all label instructions.

**Eye/Face Protection**      Tightly fitting safety goggles

**Hand protection**      Chemical resistant nitrile rubber 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 appropriate regulatory standards and/or industry recommendations.

**Exposure Limits**

Quartz (Silica, Crystalline)	14808-60-7	ACGIH	TWA	0.025 mg/m3
		NIOSH	REL	0.05 mg/m3
		OSHA Z1A	TWA	0.1 mg/m3
		Z3	TWA	2.4 millions of particles per cubic foot of air
		Z3	TWA	0.1 mg/m3
		Z3	TWA	0.3 mg/m3
		US CA OEL	TWA PEL	0.1 mg/m3
		US CA OEL	TWA PEL	0.3 mg/m3
		TX ESL	ST ESL	1 ug/m3
		TX ESL	ST ESL	1 ug/m3
		TX ESL	AN ESL	0.1 ug/m3
		TX ESL	AN ESL	0.1 ug/m3
		TX ESL	ST ESL	10 ug/m3



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		TX ESL	AN ESL	1 ug/m3
			TWA	0.1 mg/m3
Imidacloprid	138261-41-3	OES BCS*	TWA	0.7 mg/m3
		TX ESL	ST ESL	50 ug/m3
		TX ESL	AN ESL	5 ug/m3

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

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance</b>	grey
<b>Physical State</b>	solid granular
<b>Odor</b>	none
<b>Bulk density</b>	58 - 64 lb/ft <sup>3</sup> Test every batch ending in "0" and report.
<b>Water solubility</b>	insoluble

**SECTION 10. STABILITY AND REACTIVITY**

<b>Conditions to avoid</b>	Heat, flames and sparks.
<b>Hazardous Decomposition Products</b>	Hydrogen chloride (HCl) Hydrogen cyanide (hydrocyanic acid) Carbon dioxide (CO <sub>2</sub> ) nitrogen oxides (NO <sub>x</sub> )
<b>Chemical Stability</b>	Stable under recommended storage conditions.

**SECTION 11. TOXICOLOGICAL INFORMATION**

Only an acute eye irritation study has been performed on this product as formulated. All other acute toxicity data have been bridged from a similar granular formulation containing a higher percentage of the active ingredient, imidacloprid. The non-acute information pertains to the technical-grade active ingredient.

<b>Acute oral toxicity</b>	male/female combined rat: LD50: > 4,820 mg/kg
<b>Acute dermal toxicity</b>	male/female combined rabbit: LD50: > 2,000 mg/kg



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**Acute inhalation toxicity** male/female combined rat: LC50: > 5.09 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)

**Skin irritation** rabbit: No skin irritation

**Eye irritation** rabbit: Mild eye irritation.

**Sensitisation** guinea pig: Non-sensitizing.

**Chronic toxicity** Imidacloprid did not cause any significant specific adverse effects or target organ toxicity in subchronic toxicity studies.

**Assessment Carcinogenicity**

Imidacloprid was not carcinogenic in lifetime feeding studies in rats and mice.

**ACGIH**

Quartz (Silica, Crystalline)

14808-60-7

Group A2

**NTP**

None.

**IARC**

Quartz (Silica, Crystalline)

14808-60-7

Overall evaluation: 1

**OSHA**

None.

**Reproductive toxicity** Imidacloprid was not a reproductive toxicant in a two-generation study in rats.

**Developmental Toxicity** Imidacloprid was not a developmental toxicant in rats and rabbits.

**Assessment neurotoxicity** Imidacloprid showed slight behavioral and activity changes only at the highest dose tested in neurotoxicity studies in rats. There were no correlating morphological changes observed in the neural tissues.

**Mutagenicity** 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**



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**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** 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** Rinsed packaging may be acceptable for landfill, otherwise incineration will be required in accordance with local regulations. If burned, stay out of smoke.

**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**

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

Freight Classification: INSECTICIDES OR FUNGICIDES, N.O.I., OTHER THAN POISON

**SECTION 15. REGULATORY INFORMATION**

EPA Registration No. 432-1385

**US Federal Regulations**

**TSCA list**

Quartz (Silica, Crystalline) 14808-60-7

**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**



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Quartz (Silica, Crystalline) 14808-60-7 IL, MA

**Canadian Regulations**

**Canadian Domestic Substance List**

Quartz (Silica, Crystalline) 14808-60-7

**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)**

Quartz (Silica, Crystalline) 14808-60-7

**SECTION 16. OTHER INFORMATION**

**NFPA 704 (National Fire Protection Association):**

Health - 1 Flammability - 1 Reactivity - 1 Others - none

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

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

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

Reason for Revision: Updated for general editorial purposes. The following sections have been revised:  
Section 16: Other Information.

Revision Date: 02/09/2011

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.





# PREMISE®

## Granules

*For Pest Management Professionals and Commercial Use Only.*

*To KILL subterranean termite species of Coptotermes, Heterotermes, Reticulitermes, and Zootermopsis.*

*This product will kill workers and/or winged reproductive forms of termites present at the time of application only. Application of this product will not provide structural protection nor substitute for mechanical alteration, soil or foundation treatment with termiticide. This product is not to be used as sole protection against termites, as it is not designed to offer structural protection and will not prevent future infestations. A professional inspection is recommended.*

**ACTIVE INGREDIENT:**

Imidacloprid:1-[(6-Chloro-3-pyridinyl)methyl]-N nitro-2-imidazolidinimine .....0.5%

**OTHER INGREDIENTS:** .....99.5%

Total: 100.00%

PRECAUCION AL USUARIO: Si usted no puede leer o entender inglés, no use este producto hasta que la etiqueta le haya sido explicada ampliamente.

(TO THE USER: If you cannot read or understand English, do not use this product until the label has been fully explained to you.)

EPA Reg. No. 432-1385

EPA Est. No. (46) = 5905-IA-1 (79) = 5905-GA-1 (77) = 070989-MO-001

**STOP-READ THE LABEL BEFORE USE.**

**KEEP OUT OF REACH OF CHILDREN**

### CAUTION

#### PRECAUTIONARY STATEMENTS

#### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

Harmful if swallowed or absorbed through skin. Causes eye irritation. Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling.

*NET CONTENTS: 28.8 lbs.*

**BACKED**  
by **BAYER™**

<b>FIRST AID</b>	
<b>If swallowed</b>	<ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to do so by a poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
<b>If on skin or clothing</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15 to 20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If in eyes</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>HOT LINE NUMBER</b>	
Have a product container or label with you when calling a poison control center or doctor, or going for treatment. In case of emergency call toll free the Telephone No. 1 800-334-7577.	
<b>Note to physician:</b> No specific antidote is available. Treat the patient symptomatically.	

### ENVIRONMENTAL HAZARDS

This product is highly toxic to aquatic invertebrates. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters.

### DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

### GENERAL INFORMATION

This product is a ready-to-use formulation of imidacloprid intended to kill subterranean termite species of *Coptotermes*, *Heterotermes*, *Reticulitermes*, and *Zootermopsis*.

This product is formulated on a granulated carrier for perimeter band and/or soil incorporation applications. When applied to soil, precipitation and/or soil moisture cause the active ingredient to release from the granule and establish residues in the top few inches of soil at concentrations that will kill foraging termites which may be present at the time of application.

Spot treatments with this product can be made in advance of the date when final treatment of the structure with a conventional soil applied termiticide and/or foundation treatment.

#### USE SITES

This product can be applied as directed to bare soils, landscaped areas and turfgrass immediately surrounding commercial and residential structures, as well as other wooden constructions subject to termite attack.

Applications should not be made when areas are waterlogged or when the soil is saturated with water. Adequate distribution of the active ingredient into the soil where termites are active cannot be achieved when these conditions exist.

#### APPLICATION

**Perimeter applications:** This product can be used as a perimeter band application 3 to 10 feet wide around and adjacent to the structure foundation in commercial and residential areas. To kill subterranean termites foraging near commercial and residential structures, apply this product at a rate of 1.8 lb. (29 oz.) of per 1,000 sq. ft. Irrigation of treated areas (not to the point of run-off) will move the active ingredient through the thatch layer in turf, through ground covering and into the underlying soil where termites forage.

Apply this product uniformly over the area being treated with standard granular application equipment; including hand-held spreaders or shaker cans, and wheel-mounted spreaders. Calibrate application

equipment prior to use according to the manufacturer's directions. Check frequently to be sure equipment is working properly and distributing granules uniformly and accurately.

**Soil Incorporation:** Use this product to make spot treatments to kill termites in soil which may be present at the time of application.

Incorporate this product in localized areas of soil along the foundation of commercial and residential structures, or in soil adjacent to other threatened wooden constructions. After digging a narrow trench (about 6 inches in width and 6 inches in depth), uniformly incorporate 1/6 lb. (3.0 oz.) of this product per linear foot of trench. Mix this product thoroughly with the soil when backfilling the trench. Alternately, incorporate at a rate of 1/3 lb. (5.0 oz) of this product per sq. ft. of surface at critical areas such as around plumbing, bath traps, utility services or wells/cisterns, and around poles or posts, fencing and decking materials, landscape timbers and similar non-structural wood-to-soil contacts.

**NOTE:** 1 level cup is approximately 8.5 oz. of PREMISE Insecticide Granules.

### RESTRICTIONS

Avoid runoff or puddling of irrigation water following application. Do not plant for the purpose of consumption, edible plants into the treated areas of soil.

Food utensils such as teaspoons and measuring cups should not be used for food purposes after use with this insecticide.

Avoid contamination of public and private water supplies.

Do not apply more than 80 lb. of this product (0.4 lb. of active ingredient) per acre per year.

### STORAGE AND DISPOSAL

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

**Pesticide Storage:** Store in a cool, dry place and in such a manner as to prevent cross contamination with other pesticides, fertilizers, food, and feed. Store in original container and out of the reach of children, preferably in a locked storage area.

Handle and open container in a manner as to prevent spillage. If material is spilled for any reason or cause, carefully contain any spilled material to prevent non-target contamination. Do not walk through spilled material and dispose of as directed for pesticides below. Refer to Precautionary Statements on label for hazards associated with the handling of this material. In spill or leak incidents, keep unauthorized people away. You may contact the Bayer Environmental Science Emergency Response Team for decontamination procedures or any other assistance that may be necessary. The Bayer Environmental Science Emergency Response Telephone No. is 1-800-334-7577 or contact Chemtrec at 800-424-9300.

**Pesticide Disposal:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

**Container Disposal:** Completely empty bag into application equipment. Dispose of empty bag in a sanitary landfill, by incineration, or if allowed by the state and local authorities, by burning. If burned, stay out of smoke.

### IMPORTANT: READ BEFORE USE

Read the entire Directions for Use, Conditions, Disclaimer of Warranties and Limitations of Liability before using this product. If terms are not acceptable, return the unopened product container at once.

By using this product, user or buyer accepts the following conditions, disclaimer of warranties and limitations of liability.

**CONDITIONS:** The directions for use of this product are believed to be adequate and should be followed carefully. However, because of manner of use and other factors beyond Bayer Environmental Science's control, it is impossible for Bayer Environmental Science to eliminate all risks associated with the use of this product. As a result, crop injury or ineffectiveness is always possible. All such risks shall be assumed by the user or buyer.

**DISCLAIMER OF WARRANTIES:** BAYER ENVIRONMENTAL SCIENCE MAKES NO OTHER WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE, THAT EXTEND BEYOND THE STATEMENTS MADE ON THIS LABEL. No agent of Bayer Environmental Science is authorized to make any warranties beyond those contained herein or to modify the warranties contained therein. Bayer Environmental Science disclaims any liability whatsoever for special, incidental or consequential damages resulting from the use or handling of this product.

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Premise® Granules is specially formulated and sold by Bayer Environmental Science USA LP for the control of insects according to the directions on this label. Bayer is the owner of United States patent rights to the active ingredient imidacloprid, formulations containing the active ingredient and methods of use, particularly U.S. Patent No. 4,742,060. The purchase price of Premise® Granules includes a royalty whereby the purchaser acquires a prepaid license under which purchase agrees to employ the purchased quantity of Premise® Granules only for the above-specified uses under Bayer's United States patent rights and to provide notice of the terms and conditions of this license to any subsequent purchaser. Uses of Premise® Granules other than those specified on this label are not licensed through the purchase of this product and the use of this product for other purposes may violate this license and patent rights of Bayer.

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## NOTES