



**Material Safety Data Sheet**

**BAYER ADVANCED TERMITE KILLER READY-TO-SPREAD GRANULES**

MSDS Number: 102000014898

MSDS Version 1.0

Revision Date: 04/13/2006

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

**Product Name** BAYER ADVANCED TERMITE KILLER READY-TO-SPREAD GRANULES  
**MSDS Number** 102000014898  
**EPA Registration No.** 72155-68

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**

| <u>Hazardous Component Name</u> | <u>CAS-No.</u> | <u>Average % by Weight</u> |
|---------------------------------|----------------|----------------------------|
| Imidacloprid                    | 138261-41-3    | 0.37                       |
| Wood dust                       |                |                            |

**SECTION 3. HAZARDS IDENTIFICATION**

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

**Emergency Overview** Caution! Causes eye irritation. Harmful if swallowed or absorbed through skin. Do not get in eyes, on skin, or on clothing. Wash thoroughly with soap and water after handling.

**Physical State** granular

**Appearance** dark brown

**Routes of Exposure** Eye contact, Skin Absorption, 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** Harmful if swallowed. Do not take internally.

**Chronic or Delayed Long-Term** This product or its components may have target organ effects.



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**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.

**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** Wash off immediately with plenty of water for at least 15 minutes. Take off contaminated clothing and shoes immediately. 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 gulps 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** water spray, foam, carbon dioxide (CO2), dry chemical

**Fire Fighting Instructions** Keep out of smoke. Fight fire from upwind position. Cool closed containers exposed to fire with water spray. Dike area to prevent runoff and contamination of water sources. Equipment or materials involved in pesticide fires may become contaminated.

Firefighters should wear NIOSH approved self-contained breathing apparatus and full protective clothing.



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**SECTION 6. ACCIDENTAL RELEASE MEASURES**

- Personal Precautions**      Isolate hazard area. Keep unauthorized people away. Avoid contact with spilled product or contaminated surfaces.
  
- Methods for Cleaning Up**      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.
  
- Additional Advice**              Use personal protective equipment. Do not allow product to enter streams, sewers or other waterways.

**SECTION 7. HANDLING AND STORAGE**

- Handling Procedures**              Handle and open container in a manner as to prevent spillage.
  
- Storing Procedures**                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.
  
- 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.  
  
 Take off contaminated clothing and shoes immediately. Then 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. As soon as practical, wash thoroughly and change into clean clothing.

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

- General Protection**                      Follow all label instructions. 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.
  
- Engineering Controls**                      Maintain exposure levels below the exposure limit through the use of general and local exhaust ventilation.
  
- 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.



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**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**

|                             |                      |                     |           |
|-----------------------------|----------------------|---------------------|-----------|
| Wood dust                   | ACGIH                | TWA                 | 0.5 mg/m3 |
|                             | Form of Exposure     | Inhalable fraction. |           |
|                             | ACGIH                | TWA                 | 1 mg/m3   |
|                             | Form of Exposure     | Inhalable fraction. |           |
|                             | NIOSH                | REL                 | 1 mg/m3   |
|                             | Form of Exposure     | Dust.               |           |
|                             | OSHA Z1A             | TWA                 | 5 mg/m3   |
|                             | Form of Exposure     | Dust.               |           |
|                             | OSHA Z1A             | TWA                 | 2.5 mg/m3 |
|                             | Form of Exposure     | Dust.               |           |
|                             | OSHA Z1A             | STEL                | 10 mg/m3  |
|                             | Form of Exposure     | Dust.               |           |
|                             | US CA OEL            | TWA PEL             | 5 mg/m3   |
|                             | Form of Exposure     | Dust.               |           |
|                             | US CA OEL            | TWA PEL             | 2.5 mg/m3 |
| Form of Exposure            | Dust.                |                     |           |
| Calcium carbonate 1317-65-3 | US CA OEL            | STEL                | 10 mg/m3  |
|                             | Form of Exposure     | Dust.               |           |
|                             | NIOSH                | REL                 | 5 mg/m3   |
|                             | Form of Exposure     | Respirable.         |           |
|                             | NIOSH                | REL                 | 10 mg/m3  |
|                             | Form of Exposure     | Total               |           |
|                             | NIOSH                | REL                 | 10 mg/m3  |
|                             | Form of Exposure     | Total               |           |
|                             | NIOSH                | REL                 | 10 mg/m3  |
|                             | Form of Exposure     | Total               |           |
|                             | NIOSH                | REL                 | 5 mg/m3   |
|                             | Form of Exposure     | Respirable.         |           |
|                             | NIOSH                | REL                 | 5 mg/m3   |
|                             | Form of Exposure     | Respirable.         |           |
|                             | OSHA Z1              | PEL                 | 5 mg/m3   |
| Form of Exposure            | Respirable fraction. |                     |           |
| OSHA Z1                     | PEL                  | 15 mg/m3            |           |
| Form of Exposure            | Total dust.          |                     |           |
| OSHA Z1                     | PEL                  | 15 mg/m3            |           |
| Form of Exposure            | Total dust.          |                     |           |
| OSHA Z1                     | PEL                  | 5 mg/m3             |           |
| Form of Exposure            | Respirable fraction. |                     |           |
| OSHA Z1                     | PEL                  | 15 mg/m3            |           |
| Form of Exposure            | Total dust.          |                     |           |
| OSHA Z1                     | PEL                  | 5 mg/m3             |           |
| Form of Exposure            | Respirable fraction. |                     |           |
| OSHA Z1A                    | TWA                  | 5 mg/m3             |           |



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|                  |         |                       |  |
|------------------|---------|-----------------------|--|
| Form of Exposure |         | Respirable fraction.  |  |
| OSHA Z1A         | TWA     | Total dust.           | 15 mg/m3                                       |
| Form of Exposure |         | Respirable fraction.  | 5 mg/m3  |
| OSHA Z1A         | TWA     | Total dust.           | 15 mg/m3                                       |
| Form of Exposure |         | Respirable fraction.  | 5 mg/m3  |
| OSHA Z1A         | TWA     | Total dust.           | 15 mg/m3                                       |
| Form of Exposure |         | Respirable fraction.  | 5 mg/m3  |
| OSHA Z1A         | TWA     | Total dust.           | 15 mg/m3                                       |
| Form of Exposure |         | Respirable fraction.  | 5 mg/m3  |
| US CA OEL        | TWA PEL | Total dust.           | 10 mg/m3                                       |
| Form of Exposure |         | Respirable fraction.  | 5 mg/m3  |
| US CA OEL        | TWA PEL | Total dust.           | 10 mg/m3                                       |
| Form of Exposure |         | Respirable fraction.  | 5 mg/m3  |
| US CA OEL        | TWA PEL | Total dust.           | 10 mg/m3                                       |
| Form of Exposure |         | Inhalable particles.  | 3 mg/m3  |
| ACGIH            | TWA     | Respirable particles. | 15 millions of particles per cubic foot of air |
| Form of Exposure |         | Respirable fraction.  | 50 millions of particles per cubic foot of air |
| ACGIH            | TWA     | Total dust.           | 5 mg/m3  |
| Form of Exposure |         | Respirable fraction.  | 15 mg/m3                                       |
| Z3               | TWA     | Total dust.           | 15 mg/m3                                       |
| Form of Exposure |         |                       |  |
| Z3               | TWA     |                       |  |
| Form of Exposure |         |                       |  |
| Z3               | TWA     |                       |  |
| Form of Exposure |         |                       |  |
| Z3               | TWA     |                       |  |
| Form of Exposure |         |                       |  |
| Z3               | TWA     |                       |  |

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

|                       |  |
|-----------------------|--|
| <b>Appearance</b>     | dark brown                                     |
| <b>Physical State</b> | granular                                       |
| <b>pH</b>             | 6.0 - 6.2 (5 %) at 25 °C<br>aqueous suspension |
| <b>Bulk Density</b>   | 45 - 50 lbs./cu.ft.                            |

**SECTION 10. STABILITY AND REACTIVITY**



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|   |   |
|---|---|
| <b>Chemical Stability</b>               | Stable  |
| <b>Conditions to Avoid</b>              | Exposure to extreme heat.   |
| <b>Incompatibility</b>                  | acids   |
| <b>Hazardous Decomposition Products</b> | In case of fire hazardous decomposition products may be produced such as: carbon dioxide (CO <sub>2</sub> ) |

**SECTION 11. TOXICOLOGICAL INFORMATION**

Acute toxicity data have been bridged from similar granular formulations 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 rat: LD50: > 4,820 mg/kg  |
| <b>Acute Dermal Toxicity</b>     | male/female rabbit: LD50: > 2,000 mg/kg   |
| <b>Acute Inhalation Toxicity</b> | male/female rat: LC50: > 5.1 mg/l<br>Exposure time: 4 h<br>Determined in the form of dust.<br>(actual)                                    |
|                                  | male/female rat: LC50: > 20 mg/l<br>Exposure time: 1 h<br>Determined in the form of dust.<br>Extrapolated from the 4 hr LC50.<br>(actual) |
| <b>Skin Irritation</b>           | rabbit: Non-irritant.   |
| <b>Eye Irritation</b>            | rabbit: Mild eye irritation.  |
| <b>Sensitization</b>             | guinea pig: Non-sensitizing.  |
| <b>Chronic Toxicity</b>          | In chronic dietary studies in rats and dogs exposed to imidacloprid, the target organs were the thyroids and/or liver.                    |

**Assessment Carcinogenicity**

In oncogenicity studies in rats and mice, imidacloprid was not considered carcinogenic in either species.

**ACGIH**

Wood dust

Group A1

**NTP**

Wood dust

**IARC**

Wood dust

Overall evaluation: 1



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**OSHA**  
None.

**Reproductive & Developmental Toxicity**

**REPRODUCTION:** In a two-generation reproduction study in rats, imidacloprid was not a primary reproductive toxicant. Offspring exhibited reduced body weights at the high dose and in conjunction with maternal toxicity.

**DEVELOPMENTAL TOXICITY:** In developmental toxicity studies in rats and rabbits, there was no evidence of an embryotoxic or teratogenic potential for imidacloprid. In both species, developmental effects were observed only at high doses and in conjunction with maternal toxicity.

**Neurotoxicity**

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

**Mutagenicity**

The imidacloprid mutagenicity studies, taken collectively, demonstrate that the active ingredient is not genotoxic or mutagenic.

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

**SECTION 13. DISPOSAL CONSIDERATIONS**

**General Disposal Guidance**

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

**Container Disposal**

Do not re-use empty containers. 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.

**SECTION 14. TRANSPORT INFORMATION**

**TRANSPORTATION CLASSIFICATION:**  
Not regulated for Domestic Surface Shipment

**FREIGHT CLASSIFICATION:**  
Insecticides of Fungicides, N.O.I.; other than poison



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**SECTION 15. REGULATORY INFORMATION**

EPA Registration No. 72155-68

**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**

Wood dust

IL, MN, RI

**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.

**SECTION 16. OTHER INFORMATION**

NFPA 704 (National Fire Protection Association):

Health - 1      Flammability - 1      Reactivity - 1      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.





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