



**Material Safety Data Sheet**

**BAYER ADVANCED 12 MONTH TREE & SHRUB INSECT CONTROL II CONCENTRATE (LANDSCAPE CONCENTRATE)**

MSDS Number: 102000015684  
 MSDS Version 1.1  
 Revision Date: 08/24/2006

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

**Product Name** BAYER ADVANCED 12 MONTH TREE & SHRUB INSECT CONTROL II CONCENTRATE (LANDSCAPE CONCENTRATE)  
**MSDS Number** 102000015684  
**EPA Registration No.** 72155-56

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	2.94
Glycerine	56-81-5	

**SECTION 3. HAZARDS IDENTIFICATION**

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

**Emergency Overview** Caution! Moderate eye irritation. Avoid contact with skin, eyes and clothing. Wash thoroughly with soap and water after handling.

**Physical State** suspension  
**Appearance** white to off-white  
**Routes of Exposure** Eye contact, Skin contact, Inhalation, Ingestion  
**Immediate Effects**  
**Eye** Moderate eye irritation. Do not get in eyes.  
**Skin** Avoid contact with skin and clothing.  
**Ingestion** Do not take internally.  
**Inhalation** Avoid breathing spray mist.



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

**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>	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.
<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>	There is no specific antidote. Appropriate supportive and symptomatic treatment as indicated by the patient's condition is recommended.

**SECTION 5. FIRE FIGHTING MEASURES**

<b>Flash point</b>	> 93 °C / 199 °F
<b>Suitable Extinguishing Media</b>	water spray, carbon dioxide (CO2), dry chemical, foam
<b>Fire Fighting Instructions</b>	<p>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.</p> <p>Firefighters should wear NIOSH approved self-contained breathing apparatus and full protective clothing.</p>



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**SECTION 6. ACCIDENTAL RELEASE MEASURES**

- Personal Precautions**      Keep unauthorized people away. Isolate hazard area. Avoid contact with spilled product or contaminated surfaces.
  
- Methods for Cleaning Up**      Take up with absorbent material (e.g. sand, diatomaceous earth or a proprietary absorbent material). Keep in suitable, closed containers 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**      Keep away from food, drink and animal feeding stuffs. Food utensils such as teaspoons or measuring cups must not be used for food purposes after use in measuring pesticides.
  
- Storing Procedures**              Do not freeze. Store in a cool, dry secured storage area. Store in original container and out of the reach of children, preferably in a locked storage area.

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

- General Protection**              There are no known hazards associated with this product when used according to the label directions. The following guidelines should be followed.
  - Avoid inhalation of vapour or mist. Avoid contact with skin and eyes.
  
  - Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, using the toilet or applying cosmetics.
  
  - Do not allow children or pets to enter the treated area until it has dried.

**Exposure Limits**

Glycerine	56-81-5	ACGIH	TWA	10 mg/m3
		Form of Exposure	Mist.	
		OSHA Z1	PEL	5 mg/m3
		Form of Exposure	Respirable fraction.	
		OSHA Z1	PEL	15 mg/m3
		Form of Exposure	Total dust.	
		OSHA Z1A	TWA	5 mg/m3
		Form of Exposure	Respirable fraction.	



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OSHA Z1A	TWA	10 mg/m3
Form of Exposure	Total dust.	
US CA OEL	TWA PEL	5 mg/m3
Form of Exposure	Respirable fraction.	
US CA OEL	TWA PEL	10 mg/m3
Form of Exposure	Total dust.	

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance</b>	white to off-white
<b>Physical State</b>	suspension
<b>pH</b>	4.5 - 6.0 (undiluted)
<b>Density</b>	ca. 1.04 g/cm <sup>3</sup> at 20 °C

**SECTION 10. STABILITY AND REACTIVITY**

<b>Chemical Stability</b>	Stable under normal conditions.
<b>Conditions to Avoid</b>	freezing

**SECTION 11. TOXICOLOGICAL INFORMATION**

Acute toxicity data have been bridged from a similar 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 rat: LD50: > 4,870 mg/kg female rat: LD50: 4,143 mg/kg
<b>Acute Dermal Toxicity</b>	male/female rabbit: LD50: > 2,000 mg/kg
<b>Acute Inhalation Toxicity</b>	male/female rat: LC50: > 5.3 mg/l Exposure time: 4 h Determined in the form of liquid aerosol.  male/female rat: LC50: > 20 mg/l Exposure time: 1 h Determined in the form of liquid aerosol. Extrapolated from the 4 hr LC50.
<b>Skin Irritation</b>	rabbit: No skin irritation.



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**Eye Irritation** rabbit: Minimally irritating.

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

**Chronic Toxicity** 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**

None.

**NTP**

None.

**IARC**

None.

**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**

Toxic to aquatic invertebrates. Do not apply directly to water. Apply this product as specified on the label. Do not contaminate surface or ground water by cleaning equipment or disposal of wastes, including equipment wash water.



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**SECTION 13. DISPOSAL CONSIDERATIONS**

**General Disposal Guidance** It is best to use all of the product in accordance with label directions. If it is necessary to dispose of unused product, please follow container label instructions and applicable local guidelines. Never place unused product down any indoor or outdoor drain.

**Container Disposal** Do not re-use empty containers. Place empty container in trash.

**SECTION 14. TRANSPORT INFORMATION**

**TRANSPORTATION CLASSIFICATION:**  
Not regulated for transportation

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

**SECTION 15. REGULATORY INFORMATION**

**EPA Registration No.** 72155-56

**US Federal Regulations**

**TSCA list**

Glycerine 56-81-5

**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**

Glycerine 56-81-5 IL, MN, RI

**Canadian Regulations**

**Canadian Domestic Substance List**

Glycerine 56-81-5



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**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)**

Glycerine

56-81-5

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**SECTION 16. OTHER INFORMATION**

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NFPA 704 (National Fire Protection Association):

Health - 1      Flammability - 1      Reactivity - 0      Others - none

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

Reason to Revise: Update inhalation toxicology data in Section 11.

Revision Date: 08/24/2006

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