SECTION 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Product Name: ADAMENT 50 WG FUNGICIDE
MSDS Number: 102000014008
EPA Registration No.: 264-1052

Bayer CropScience
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: 1-866-99BAYER (1-866-992-2937)

SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Hazardous Component Name</th>
<th>CAS-No.</th>
<th>Average % by Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tebuconazole</td>
<td>107534-96-3</td>
<td>25.00</td>
</tr>
<tr>
<td>Trifloxystrobin</td>
<td>141517-21-7</td>
<td>25.00</td>
</tr>
</tbody>
</table>

Trade Secret Ingredient(s)

SECTION 3. HAZARDS IDENTIFICATION

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

Emergency Overview
Caution! Moderate eye irritation. Harmful if swallowed, inhaled or absorbed through the skin. Avoid contact with skin, eyes and clothing. Avoid inhalation of vapour or mist.

Physical State
water-dispersible granules

Appearance
tan

Routes of Exposure
Ingestion, Inhalation, Eye contact, Skin Absorption

Immediate Effects

Eye
Moderate eye irritation. Avoid contact with eyes.

Skin
Harmful if absorbed through skin. Avoid contact with skin and clothing.

Ingestion
Harmful if swallowed. Do not take internally.

Inhalation
Harmful if inhaled. Avoid inhalation of vapour or mist.

Chronic or Delayed
Long-Term
This product or its components may have target organ effects.
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 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/tanks 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.
**Personal Precautions**
Keep unauthorized people away. Isolate hazard area. 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 to enter soil, waterways or waste water canal.

### SECTION 7. HANDLING AND STORAGE

**Handling Procedures**
Maintain exposure levels below the exposure limit through the use of general and local exhaust ventilation. Handle and open container in a manner as to prevent spillage.

Take measures to prevent the build up of electrostatic charge.

**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.

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.

### 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.

**Eye/Face Protection**
Safety glasses with side-shields

**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

This product contains material which are Trade Secret and may have Occupational Exposure Limits. If more information is required, call the product information number listed in Section 1.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>tan</td>
</tr>
<tr>
<td>Physical State</td>
<td>water-dispersible granules</td>
</tr>
<tr>
<td>pH</td>
<td>5.3 - 5.7 (10 %)</td>
</tr>
<tr>
<td>Bulk Density</td>
<td>30.1 lb/cu.ft.</td>
</tr>
</tbody>
</table>

SECTION 10. STABILITY AND REACTIVITY

| Incompatibility       | Oxidizing agents              |
|                       | Acids                         |
| Hazardous Decomposition Products | Thermal decomposition can lead to release of: |
|                       | Carbon oxides                 |
|                       | Sulphur oxides                |
|                       | nitrogen oxides (NOx)         |

Hazardous Reactions
Stable under normal conditions.

SECTION 11. TOXICOLOGICAL INFORMATION

Only acute toxicity studies have been performed on the formulated product. The non-acute information pertains to the technical-grade active ingredients, tebuconazole and trifloxystrobin.

Acute Oral Toxicity
female rat: LD50: > 5,000 mg/kg

Acute Dermal Toxicity
rat: LD50: > 5,000 mg/kg
Acute Inhalation Toxicity
rat: LC50: > 2.03 mg/l
Exposure time: 4 h
Determined in the form of dust.
highest concentration tested
No deaths
rat: LC50: > 8.12 mg/l
Exposure time: 1 h
Determined in the form of dust.
Extrapolated from the 4 hr LC50.

Skin Irritation
rabbit: Slight irritation.

Eye Irritation
rabbit: Moderate eye irritation.

Sensitization
guinea pig: Non-sensitizing.

Chronic Toxicity
Tebuconazole caused liver, spleen, adrenal and/or eye effects at high doses in chronic studies in rats and dogs.

Trifloxystrobin caused liver effects in chronic studies in mice, rats and/or dogs.

Assessment Carcinogenicity
Tebuconazole is classified by EPA as a Group C carcinogen (possible human carcinogen) based on liver tumors in mice and no evidence of carcinogenicity in rats. As the liver tumors were seen only at a dose exceeding a Maximum Tolerated Dose (MTD), no significant carcinogenic risk is posed for human exposure.

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

ACGIH
None.

NTP
None.

IARC
None.

OSHA
None.

Reproductive & Developmental Toxicity
REPRODUCTION:
Tebuconazole is not considered a primary reproductive toxicant in rats. Reproductive effects (e.g., smaller litters) were observed at the highest concentration but were considered secondary to maternal toxicity.

Trifloxystrobin is not considered a primary reproductive toxicant in rats.

DEVELOPMENTAL TOXICITY:
Trifloxystrobin is not considered a primary developmental toxicant in laboratory animals. Developmental effects were observed only at doses that caused maternal toxicity.
Tebuconazole is not considered a primary developmental toxicant in laboratory animals. Developmental effects were observed only at doses that caused maternal toxicity.

**Neurotoxicity**

Tebuconazole caused only transient neurobehavioral effects (e.g., decreased motor activity) in acute, subchronic and/or developmental neurotoxicity studies in rats.

Trifloxystrobin is not a primary neurotoxicant based on an acute (oral gavage) neurotoxicity screening study in rats.

**Mutagenicity**

Tebuconazole was not mutagenic or genotoxic in a battery of in vitro and in vivo tests.

Trifloxystrobin was not considered mutagenic or genotoxic based on in vitro and in vivo tests.

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**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. Drift and runoff from treated areas may be hazardous to aquatic organisms in adjacent sites. 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**

Triple rinse containers. Then offer for recycling or reconditioning or puncture and dispose of in a sanitary landfill or incineration, or if allowed by State and Local authorities, by burning. If burned, stay out of smoke.

**SECTION 14. TRANSPORT INFORMATION**

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

**FREIGHT CLASSIFICATION:**
Insecticide or Fungicide, N.O.I.; other than poison
SECTION 15. REGULATORY INFORMATION

This product contains material(s) which are Trade Secret and are on various Regulatory Lists. These material(s) are not listed below. If more information is required, call the product information number listed in Section 1.

EPA Registration No. 264-1052

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
- 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 - 2  Flammability - 1  Reactivity - 0  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.

Revision Date: 08/30/2007

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.