SECTION 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Product Name: STRATEGO® FUNGICIDE
MSDS Number: 102000016845
EPA Registration No.: 264-779

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>Trifloxystrobin</td>
<td>141517-21-7</td>
<td>11.40</td>
</tr>
<tr>
<td>Propiconazole</td>
<td>60207-90-1</td>
<td>11.40</td>
</tr>
</tbody>
</table>

SECTION 3. HAZARDS IDENTIFICATION

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

Emergency Overview: Warning! Causes substantial but temporary eye injury. Harmful if swallowed. Do not get in eyes or on clothing.

Physical State: liquid

Appearance: brown

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

Immediate Effects:

Eye: Causes substantial but temporary eye injury. Severe eye irritation. Do not get in eyes.

Skin: May cause slight irritation. May cause sensitization by skin contact. Avoid contact with skin and clothing.

Ingestion: Do not take internally. Harmful if swallowed.

Inhalation: Avoid inhalation of vapour or mist.
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
> 93.4 °C / 200.1 °F

Autoignition Temperature
no data available

Lower Flammability Limit
no data available

Upper Flammability Limit
not applicable

Explosiveness
no data available

Suitable Extinguishing Media
Carbon dioxide (CO2), Dry chemical, Alcohol-resistant foam
Fire Fighting Instructions
Avoid contact with spilled product or contaminated surfaces. Evacuate personnel to safe areas. Keep out of smoke. Fight fire from upwind position. Cool closed containers/tanks exposed to fire with water spray.

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

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions
Keep unauthorized people away. Isolate hazard area. Avoid contact with spilled product or contaminated surfaces. Use personal protective equipment.

Methods for Cleaning Up
Collect and transfer the product into a properly labelled and tightly closed container. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder). Contaminated soil may have to be removed and disposed.

Clean contaminated floors and objects thoroughly, observing environmental regulations. Decontaminate tools and equipment following cleanup.

Additional Advice
Do not allow to enter soil, waterways or waste water canal. Do not allow product to contact vegetation.

Information regarding safe handling, see section 7. Information regarding personal protective equipment, see section 8. Information regarding waste disposal, see section 13.

SECTION 7. HANDLING AND STORAGE

Handling Procedures
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. For personal protection see section 8.

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. Protect from freezing.

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. Handle in accordance with good industrial hygiene and safety practice.

Remove contaminated clothing immediately and dispose of safely. Wash thoroughly and put on clean clothing.

Min/Max Storage Temperatures
Recommended maximum transport/storage temperature: 50 °C / 122 °F
The storage temperature should not exceed the recommended maximum.
SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

General Protection  Follow all label instructions. 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

<table>
<thead>
<tr>
<th>Substance</th>
<th>CAS Number</th>
<th>OES BCS*</th>
<th>Limit (mg/m³)</th>
</tr>
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<tbody>
<tr>
<td>Trifloxystrobin</td>
<td>141517-21-7</td>
<td></td>
<td>2.7</td>
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*OES BCS: Internal Bayer CropScience "Occupational Exposure Standard"

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>brown</td>
</tr>
<tr>
<td>Physical State</td>
<td>liquid</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>0.0000034 hPa at approx. 25 °C</td>
</tr>
<tr>
<td>Density</td>
<td>approx. 1.09 g/cm³ at 20 °C</td>
</tr>
<tr>
<td>Water solubility</td>
<td>approx. 0.00061 g/l</td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/water</td>
<td>4.5 at 25 °C</td>
</tr>
</tbody>
</table>

SECTION 10. STABILITY AND REACTIVITY

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemical Stability</td>
<td>24 Months</td>
</tr>
<tr>
<td>Conditions to Avoid</td>
<td>Freezing</td>
</tr>
<tr>
<td></td>
<td>Extremes of temperature and direct sunlight.</td>
</tr>
<tr>
<td>Hazardous</td>
<td>Thermal decomposition</td>
</tr>
</tbody>
</table>
Decomposition Products  Carbon dioxide (CO2)
Carbon monoxide
Nitrogen oxides (NOx)

Hazardous Reactions  Stable under recommended storage conditions.

SECTION 11. TOXICOLOGICAL INFORMATION

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

Acute Oral Toxicity  
male rat: LD50: 4,757 mg/kg
female rat: LD50: 4,830 mg/kg

Acute Dermal Toxicity  
rat: LD50: > 5,050 mg/kg

Acute Inhalation Toxicity  
rat: LC50: > 2.2 mg/l
Exposure time: 4 h
Determined in the form of liquid aerosol.
No deaths

rat: LC50: > 8.8 mg/l
Exposure time: 1 h
Determined in the form of liquid aerosol.
Extrapolated from the 4 hr LC50.

Skin Irritation  
rabbit: Slight irritation.

Eye Irritation  
rabbit: Severe eye irritation.

Sensitization  
guinea pig: Non-sensitizing.

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

Propiconazole caused liver effects and/or stomach irritations in chronic studies in rodents and dogs.

Assessment Carcinogenicity  
Trifloxystrobin is not carcinogenic based on oncogenicity studies in rats and mice.

Propiconazole has been classified as a Group C (possible human carcinogen) chemical based on liver tumors in male mice. In lifetime feeding studies, propiconazole was not carcinogenic to rats or to female mice.

ACGIH  
None.

NTP  
None.
Reproductive & Developmental Toxicity

REPRODUCTION:
Trifloxystrobin is not considered a primary reproductive toxicant in rats.

Propiconazole was not considered a primary reproductive toxicant in a two-generation study 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.

Propiconazole is considered a developmental toxicant based on developmental toxicity studies in rats.

Neurotoxicity

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

Propiconazole caused minimal neurobehavioral effects without correlating neuropathological changes in neurotoxicity studies in rats.

Mutagenicity

Trifloxystrobin is not considered genotoxic based on in vitro and in vivo tests.

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

SECTION 12. ECOLOGICAL INFORMATION

Toxicity to Fish
Bluegill sunfish
LC50: 0.046 mg/l

Cyprinus carpio (Carp)
LC50: approx. 0.025 mg/l

Chronic Toxicity to Fish
Oncorhynchus mykiss (rainbow trout)
flow-through test
NOEC: approx. 0.183 mg/l

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.
SECTION 13. DISPOSAL CONSIDERATIONS

General Disposal Guidance
Do not contaminate water, food, or feed by disposal. Dispose in accordance with all local, state/provincial and federal regulations. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. Follow container label instructions for disposal of wastes generated during use in compliance with the product label.

Container Disposal
Triple rinse containers. Do not re-use empty containers. Puncture container to avoid re-use. Dispose of empty container in a sanitary landfill or by incineration, or, if allowed by State/Provincial and local authorities, by burning. Follow advice on product label and/or leaflet.

SECTION 14. TRANSPORT INFORMATION

DOT CLASSIFICATION:
Not regulated for Domestic Surface Transportation

TDG CLASSIFICATION:
Not regulated for road or rail.

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

SECTION 15. REGULATORY INFORMATION

EPA Registration No. 264-779

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
Propiconazole 60207-90-1 1.0%

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
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.

International Regulations

European Inventory of Existing Commercial Substances (EINECS)

<table>
<thead>
<tr>
<th>Substance</th>
<th>CAS Number</th>
<th>Country</th>
</tr>
</thead>
<tbody>
<tr>
<td>Propiconazole</td>
<td>60207-90-1</td>
<td>NJ</td>
</tr>
</tbody>
</table>

SECTION 16. OTHER INFORMATION

NFPA 704 (National Fire Protection Association):

<table>
<thead>
<tr>
<th>Health</th>
<th>Flammability</th>
<th>Reactivity</th>
<th>Others</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>1</td>
<td>1</td>
<td>none</td>
</tr>
</tbody>
</table>

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

Reason to Revise: Updated due to new system and numbering scheme.

Revision Date: 11/05/2007

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