1. PRODUCT IDENTIFICATION

Product identifier on label: HEADWAY® G
Product No.: A17869A
Use: Fungicide
Manufacturer: Syngenta Crop Protection, LLC
Post Office Box 18300
Greensboro NC 27419
Manufacturer Phone: 1-800-334-9481

Emergency Phone: 1-800-888-8372

2. HAZARDS IDENTIFICATION

Classifications: Specific Target Organ Toxicity: Respiratory Irritation Category 3
Carcinogenicity: Category 1A
Specific Target Organ Toxicity: Repeated Category 1

Signal Word (OSHA): Danger

Hazard Statements: May cause respiratory irritation
May cause cancer
Causes damage to organs through prolonged or repeated exposure

Precautionary Statements: Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Do not breathe dust.
Wash hands and face thoroughly after handling.
Do not eat, drink or smoke when using this product.
Use only outdoors or in a well-ventilated area.
Wear protective gloves, protective clothing, eye protection.
If inhaled: Remove person to fresh air and keep comfortable for breathing.
If exposed or concerned: Get medical advice/attention.
Call a poison center, doctor or Syngenta if you feel unwell.
Store locked up.
Dispose of contents and container in accordance with local regulations.

Other Hazard Statements: May form combustible dust concentrations in air.
3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Common Name</th>
<th>CAS Number</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wood Dust</td>
<td>Wood Dust</td>
<td>Not Applicable</td>
<td>Trade Secret</td>
</tr>
<tr>
<td>Other ingredients</td>
<td>Other ingredients</td>
<td>Trade Secret</td>
<td>&lt;98.94%</td>
</tr>
<tr>
<td>Magnesite</td>
<td>Dolomitic Limestone</td>
<td>546-93-0</td>
<td>Trade Secret</td>
</tr>
<tr>
<td>Methyl (E)-2-{2-[6-(2-cyanophenoxy)pyrimidin-4-yloxy]phenyl}-3-methoxyacrylate</td>
<td>Azoxystrobin</td>
<td>131860-33-8</td>
<td>0.31%</td>
</tr>
<tr>
<td>1-[[2-(2,4-dichlorophenyl)-4-propyl-1,3-dioxolan-2-yl]methyl]-1H-1,2,4-triazole</td>
<td>Propiconazole</td>
<td>60207-90-1</td>
<td>0.75%</td>
</tr>
</tbody>
</table>

Ingredients not precisely identified are proprietary or non-hazardous. Values are not product specifications.

4. FIRST AID MEASURES

Have the product container, label or Safety Data Sheet with you when calling Syngenta (800-888-8372), a poison control center or doctor, or going for treatment.

Ingestion: If swallowed: Call Syngenta (800-888-8372), a poison control center or doctor immediately for treatment advice. Do not give any liquid to the person. Do not induce vomiting unless told to do so after calling 800-888-8372 or by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

Eye Contact: If in eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after 5 minutes, then continue rinsing eye. Call Syngenta (800-888-8372), a poison control center or doctor for treatment advice.

Skin Contact: If on skin or clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call Syngenta (800-888-8372), a poison control center or doctor for treatment advice.

Inhalation: If inhaled: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call Syngenta (800-888-8372), a poison control center or doctor for further treatment advice.

Most important symptoms/effects:
Respiratory irritation

Indication of immediate medical attention and special treatment needed:
There is no specific antidote if this product is ingested.
Treat symptomatically.

5. FIRE FIGHTING MEASURES

Suitable (and unsuitable) extinguishing media:
Use dry chemical, foam or CO2 extinguishing media. If water is used to fight fire, dike and collect runoff.

Specific Hazards:
During a fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion.

Special protective equipment and precautions for firefighters:
Wear full protective clothing and self-contained breathing apparatus. Evacuate nonessential personnel from the area to prevent human exposure to fire, smoke, fumes or products of combustion.
6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures:
Follow exposure controls/personal protection outlined in Section 8.

Methods and materials for containment and cleaning up:
Control the spill at its source. Contain the spill to prevent from spreading or contaminating soil or from entering sewage and drainage systems or any body of water. Clean up spills immediately, observing precautions outlined in Section 8. Sweep up material and place in a compatible disposal container. Scrub area with hard water detergent (e.g. commercial products such as Tide, Joy, Spic and Span). Pick up wash liquid with additional absorbent and place into compatible disposal container. Once all material is cleaned up and placed in a disposal container, seal container and arrange for disposition.

7. HANDLING AND STORAGE

Precautions for safe handling:
Store the material in a well-ventilated, secure area out of reach of children and domestic animals. Do not store food, beverages or tobacco products in the storage area. Prevent eating, drinking, tobacco use, and cosmetic application in areas where there is a potential for exposure to the material. Wash thoroughly with soap and water after handling.

Conditions for safe storage, including any incompatibilities:
Store locked up.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

THE FOLLOWING RECOMMENDATIONS FOR EXPOSURE CONTROLS/PERSONAL PROTECTION ARE INTENDED FOR THE MANUFACTURE, FORMULATION AND PACKAGING OF THIS PRODUCT.

FOR COMMERCIAL APPLICATIONS AND/OR ON-FARM APPLICATIONS CONSULT THE PRODUCT LABEL.

Occupational Exposure Limits:

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>OSHA PEL</th>
<th>ACGIH TLV</th>
<th>Other</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wood Dust</td>
<td>15 mg/m³ TWA (total), 5 mg/m³ (resp)</td>
<td>1 mg/m³ TWA (inhalable dust)</td>
<td>1 mg/m³ TWA (REL)</td>
<td>NIOSH</td>
</tr>
<tr>
<td>Other ingredients</td>
<td>Not Applicable</td>
<td>Not Applicable</td>
<td>Not Applicable</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Dolomitic Limestone</td>
<td>Not Established</td>
<td>Not Established</td>
<td>5 mg/m³ (Respirable), 10 mg/m³ (Total)</td>
<td>NIOSH</td>
</tr>
<tr>
<td>Azoxyystrobin</td>
<td>Not Established</td>
<td>Not Established</td>
<td>4 mg/m³ TWA</td>
<td>Syngenta</td>
</tr>
<tr>
<td>Propiconazole</td>
<td>Not Established</td>
<td>Not Established</td>
<td>5 mg/m³ TWA</td>
<td>Syngenta</td>
</tr>
</tbody>
</table>

Appropriate engineering controls:
Use effective engineering controls to comply with occupational exposure limits (if applicable).

Individual protection measures:

Ingestion:
Prevent eating, drinking, tobacco usage and cosmetic application in areas where there is a potential for exposure to the material. Wash thoroughly with soap and water after handling.

Eye Contact:
Where eye contact is likely, use dust-proof chemical goggles.
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Date: 7/15/2015  
Replaces: 3/19/2015

Skin Contact:
Where contact is likely, wear chemical-resistant gloves (such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, natural rubber, polyethylene, polyvinyl chloride [PVC] or Viton), coveralls, socks and chemical-resistant footwear.

Inhalation:
A particulate filter respirator may be necessary until effective engineering controls are installed to comply with occupational exposure limits. Use NIOSH certified respirator with any N, R, P or HE filter. Use a self-contained breathing apparatus in cases of emergency spills, when exposure levels are unknown, or under any circumstances where air-purifying respirators may not provide adequate protection.

9. PHYSICAL AND CHEMICAL PROPERTIES

| Appearance: | Brown solid |
| Odor: | Aromatic |
| Odor Threshold: | Not Available |
| pH: | 6.6 (1% solution in deionized H2O @ 77°F [25°C]) |
| Melting point/freezing point: | Not Available |
| Initial boiling point and boiling range: | Not Applicable |
| Flash Point (Test Method): | Not Available |
| Flammable Limits (% in Air): | Not Available |
| Flammability: | Not Available |
| Vapor Pressure: | Azoxystrobin: 8.25 x 10\(^{-13}\) mmHg @ 68°F (20°C)  
                 Propiconazole: 4.2 x 10\(^{-7}\) mmHg @ 77°F (25°C) |
| Vapor Density: | Not Available |
| Relative Density: | 0.81 - 0.83 g/ml |
| Solubility (ies): | Azoxystrobin: 6 mg/l in water @ 68°F (20°C)  
                 Propiconazole: 0.1 g/l @ 68°F (20°C) |
| Partition coefficient: n-octanol/water: | Not Available |
| Autoignition Temperature: | Not Available |
| Decomposition Temperature: | Not Available |
| Viscosity: | Not Available |
| Other: | None |

10. STABILITY AND REACTIVITY

Reactivity: Not reactive.
Chemical stability: Stable under normal use and storage conditions.
Possibility of hazardous reactions: Will not occur.
Conditions to Avoid: None known.
Incompatible materials: None known.
Hazardous Decomposition Products: None known.
11. TOXICOLOGICAL INFORMATION

Health effects information
Likely routes of exposure: Dermal, Inhalation
Symptoms of exposure: Respiratory irritation
Delayed, immediate and chronic effects of exposure: Possible carcinogenicity, Respiratory irritation

Numerical measures of toxicity (acute toxicity/irritation studies (finished product))

- **Ingestion:** Oral (LD50 Female Rat) > 5000 mg/kg body weight
- **Dermal:** Dermal (LD50 Rat) > 5000 mg/kg body weight
- **Inhalation:** Inhalation (LC50 Rat) Not Available
- **Eye Contact:** Mildly Irritating (Rabbit)
- **Skin Contact:** Slightly Irritating (Rabbit)
- **Skin Sensitization:** Not a Sensitizer (Guinea Pig)

Reproductive/Developmental Effects
- Azoxystrobin: Did not show reproductive toxicity effects in animal experiments.
- Propiconazole: None observed.

Chronic/Subchronic Toxicity Studies
- Azoxystrobin: No adverse effect has been observed in chronic toxicity tests.
- Propiconazole: None observed.

Carcinogenicity
- Azoxystrobin: Did not show carcinogenic effects in animal experiments.
- Propiconazole: Increased hepatocellular adenomas, combined adenomas/carcinomas, and hepatocellular carcinomas observed in male mice in a chronic oral feeding study. However, animals in the high dose group for this study showed excessive toxicity; furthermore, the high dose exceeded the Maximum Tolerated Dose determined in the 90-day range finding study. No treatment-related tumors were seen in female mice in this mouse chronic feeding study. No tumors were noted in a chronic rat study.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>NTP/IARC/OSHA Carcinogen</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wood Dust</td>
<td>IARC Group 1</td>
</tr>
<tr>
<td>Other ingredients</td>
<td>No</td>
</tr>
<tr>
<td>Magnesite</td>
<td>No</td>
</tr>
<tr>
<td>Methyl (E)-2-[2-[6-(2-cyanophenoxy)pyrimidin-4-yloxy]phenyl]-3-methoxyacrylate</td>
<td>No</td>
</tr>
<tr>
<td>1-[2-(2,4-dichlorophenyl)-4-propyl-1,3-dioxolan-2-yl][methyl]-1H-1,2,4-triazole</td>
<td>No</td>
</tr>
</tbody>
</table>

Other Toxicity Information
- None

Toxicity of Other Components
- Dolomitic Limestone
Safety Data Sheet

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Exposure to limestone dust may cause irritation to the moist mucous membranes of the nose, throat, and upper respiratory system. Limestone may contain trace amounts of free crystalline silica. Prolonged exposure to respirable free silica can aggravate other lung conditions and cause silicosis, a disabling and potentially fatal lung disease.

Other ingredients
Not Applicable

Wood Dust
Wood dust may cause mechanical irritation to the eye. Wood dust of certain species can elicit allergic contact dermatitis in sensitized individuals. Inhalation of wood dust may cause obstruction in nasal passages. May cause respiratory tract irritation.

Target Organs

Active Ingredients
Azoxystrobin: Liver
Propiconazole: Liver

Inert Ingredients
Dolomitic Limestone: Respiratory Tract
Other ingredients: Not Applicable

Wood Dust: Eye, skin, nasal passages, respiratory tract

12. ECOLOGICAL INFORMATION

Eco-Acute Toxicity
Azoxystrobin:
- Fish (Rainbow Trout) 96-hour LC50 470 ppb
- Green Algae 5-day EC50 106 ppb
- Invertebrate (Water Flea) 48-hour EC50 259 ppb
- Bird (Mallard Duck) 14-day LD50 > 250 mg/kg

Propiconazole:
- Fish (Rainbow Trout) 96-hour LC50 0.83 ppm
- Invertebrate (Water Flea) 48-hour EC50 3.2 ppm
- Green Algae 9-day EC50 0.72 ppm
- Bird (Mallard Duck) 14-day LD50 2510 mg/kg

Environmental Fate
Azoxystrobin:
The information presented here is for the active ingredient, azoxystrobin.
- Low bioaccumulation potential
- Not persistent in soil
- Stable in water
- Moderate mobility in soil
- Sinks in water (after 24 h)

Propiconazole:
The information presented here is for the active ingredient, propiconazole.
- Low bioaccumulation potential
- Not persistent in soil
- Stable in water
- Low mobility in soil
- Sinks in water (after 24 h)
13. DISPOSAL CONSIDERATIONS

Disposal:
Do not reuse product containers. Dispose of product containers, waste containers, and residues according to local, state, and federal health and environmental regulations.

Characteristic Waste: Not Applicable
Listed Waste: Not Applicable

14. TRANSPORT INFORMATION

DOT Classification
Ground Transport - NAFTA
Not regulated

Comments
Water Transport - International
Proper Shipping Name: Environmentally Hazardous Substance, Solid, N.O.S. (Azoxystrobin), Marine Pollutant
Hazard Class: Class 9
Identification Number: UN 3077
Packing Group: PG III

Air Transport
Proper Shipping Name: Environmentally Hazardous Substance, Solid, N.O.S. (Azoxystrobin)
Hazard Class: Class 9
Identification Number: UN 3077
Packing Group: PG III

15. REGULATORY INFORMATION

Pesticide Registration:
This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

Caution: Causes moderate eye irritation. Harmful if swallowed. Harmful if absorbed through skin. Harmful if inhaled. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

EPA Registration Number(s):
100-1378

EPCRA SARA Title III Classification:
Section 311/312 Hazard Classes: Acute Health Hazard

Section 313 Toxic Chemicals: Propiconazole 0.75% (CAS No. 60207-90-1)

CERCLA/SARA 304 Reportable Quantity (RQ):
None

RCRA Hazardous Waste Classification (40 CFR 261):
Not Applicable
16. OTHER INFORMATION

<table>
<thead>
<tr>
<th>NFPA Hazard Ratings</th>
<th>HMIS Hazard Ratings</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Health:</td>
<td>Health:</td>
<td>0 Minimal</td>
</tr>
<tr>
<td>1</td>
<td>1</td>
<td>Slight</td>
</tr>
<tr>
<td>Flammability:</td>
<td>Flammability:</td>
<td>2 Moderate</td>
</tr>
<tr>
<td>1</td>
<td>1</td>
<td>Serious</td>
</tr>
<tr>
<td>Instability:</td>
<td>Reactivity:</td>
<td>3 Serious</td>
</tr>
<tr>
<td>0</td>
<td>0</td>
<td>Extreme</td>
</tr>
<tr>
<td></td>
<td></td>
<td>* Chronic</td>
</tr>
</tbody>
</table>

Syngenta Hazard Category: D

For non-emergency questions about this product call:

1-800-334-9481

Original Issued Date: 5/7/2010
Revision Date: 7/15/2015
Replaces: 3/19/2015
Section(s) Revised: 2, 4, 11, 16

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein.