NFPA HAZARD RATING

<table>
<thead>
<tr>
<th></th>
<th>U.S. TRANSPORT SUMMARY</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>Least</td>
</tr>
<tr>
<td>1</td>
<td>Slight</td>
</tr>
<tr>
<td>2</td>
<td>Moderate</td>
</tr>
<tr>
<td>3</td>
<td>High</td>
</tr>
<tr>
<td>4</td>
<td>Severe</td>
</tr>
</tbody>
</table>

SECTION 1: IDENTIFICATION

Product Name: Warden Cereals II Fungicide
EPA Registration #: 100-1382-1381
Product ID/Unity #: 1587083
Common Name: Difenoconazole, Mefenoxam, Sedaxan
Chemical Description: 1H-1,2,4-Triazole, 1-[(2-2chloro-4-(4-chlorophenoxy)phenyl)-4-methyl-1,3-dioxolan-2-yl)methyl]; (R,S)-2-(2,6-dimethylphenyl0-methoxyacetylaminom)-propionic acid methyl ester;
1H-Pyrazole-4-carboxamide, N-(2[1,1'-bicyclopropyl]-2-yphenyl-3-(difluoromethyl)-1-methyl-
Recommended Uses: Grain protectant – See product label for use directions.
Restrictions for Use: See product label for any potential use restrictions.
Manufactured For: WINFIELD SOLUTIONS, LLC
P. O. Box 64589
St. Paul, MN 55164-0589
MEDICAL EMERGENCY TELEPHONE NUMBER: 1-877-424-7452 (24hrs)
Non-Emergency Business Inquiries: 1-855-494-6343
Mon – Fri 8am – 5pm (Central Standard Time)
FOR EMERGENCY, SPILL, LEAK, FIRE, EXPOSURE, OR ACCIDENT, CALL: CHEMTREC 1-800-424-9300 (24 hours)

SECTION 2: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Specific Target Organ Toxicity. Respiratory Irritation Category 3. Eye damage/Irritation: Category 2B; Carcinogenicity: Category 1A, Specific Target Organ Toxicity: Repeated Category 1.
POTENTIAL HEALTH EFFECTS:
Eyes: May cause eye irritation.
Skin: May cause mild but reversible skin irritation.
Inhalation: May cause respiratory irritation.
Ingestion: May cause minor irritation of the digestive tract.
Preexisting Conditions: None known
Chronic Health Effects: May cause cancer, may cause damage to organs through prolonged or repeated exposure.

Carcinogenicity: NTP: Yes (Silica) IARC: Group 2A (silica) OSHA: Not listed
OSHA HCS 2012 CLASSIFICATION: Eye Irritation Category 2B; Specific Organ Toxicity: Respiratory Irritation Category: 3, Eye Damage/Irritation Category: 2B, Carcinogenicity Category 1A; Specific Organ Toxicity: Repeated Category 1.

SIGNAL WORD: DANGER

HAZARD STATEMENTS:
Causes eye irritation.
May cause respiratory irritation.
May cause cancer
Causes damage to organs through prolonged or repeated exposure.
Percent of product with unknown toxicity: 0%

PRECAUTIONARY STATEMENTS:
Prevention: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe mist, vapors, spray. Wash hands thoroughly after use. Do not eat, drink or smoke.
**Response:**
If inhaled: remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice. If exposed or concerned, get medical advice/attention. Call poison center or doctor if you feel unwell.

**Storage:**
Store locked up

**Disposal**
Dispose of contents and container in accordance with local regulations.

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**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>% (wt)</th>
<th>CAS Reg. #</th>
</tr>
</thead>
<tbody>
<tr>
<td>Crystalline Silica, Quartz &amp; Cristobalite</td>
<td>Trade Secret</td>
<td>Trade Secret</td>
</tr>
<tr>
<td>Glycerin</td>
<td></td>
<td>14808-60-7</td>
</tr>
<tr>
<td>Montmorillonite Clay</td>
<td>5.86%</td>
<td>56-81-5</td>
</tr>
<tr>
<td>Other ingredients</td>
<td>91.46%</td>
<td>Trade Secret</td>
</tr>
<tr>
<td>Difenconazole</td>
<td>5.86%</td>
<td>119446-68-3</td>
</tr>
<tr>
<td>Mefenoxam</td>
<td>1.46%</td>
<td>70630-17-0 &amp; 69516-34-3</td>
</tr>
<tr>
<td>Sedaxane</td>
<td>1.22%</td>
<td>874967-67-6</td>
</tr>
</tbody>
</table>

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

See Section 8 for exposure limits.

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**SECTION 4: FIRST AID MEASURES**

**Inhalation:**
If inhaled: move the person to fresh air. If the person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth to mouth if possible. Call medical emergency assistance number 1-877-424-7452 or doctor for further treatment advice.

**Ingestion:**
If swallowed: Call medical emergency assistance number 1-877-424-7452 or doctor for further treatment advice. Have the person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so after calling 1-877-425-7452 or by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

**Eyes:**
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 medical emergency assistance number 1-877-424-7452 or doctor for further treatment advice.

**Skin:**
If on skin or clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water or 15-20 minutes. Call medical emergency assistance number 1-877-424-7452 or doctor for further treatment advice.

**Most important symptoms/effects:**
- Eye irritation
- Respiratory irritation

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

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**SECTION 5: FIRE FIGHTING MEASURES**

**Suitable Extinguishing Media:** Use dry chemical, foam or CO2 extinguishing media. If water is used to fight fire, dike and collect runoff.

**Unsuitable Extinguishing Media:** Use dry chemical, foam or CO2 extinguishing media. If water is used to fight fire, dike and collect runoff.

**Special Fire Fighting Procedures:** Wear full protective clothing and self-contained breathing apparatus. Evacuate nonessential personnel to prevent human exposure to fire, smoke, fumes or products of combustion.

**Hazardous Combustion Products:** During a fire, irritating and possibly toxic gases may be generated by thermal
SECTION 6: ACCIDENTAL RELEASE MEASURES

**Personal Precautions:** Refer to Section 8 for personal protective equipment to be worn during containment and clean-up of a spill involving this product.

**Environmental Precautions:** Keep spilled product from entering sewers or waterways.

**Methods for Containment and Clean up:** Control the spill at its source. Contain the spilled to prevent it 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. Cover entire spill with absorbing material and place into compatible disposal container. Scrub area with hard water detergent (e.g., commercial products with 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.

**Other Information:** None known

SECTION 7: HANDLING AND STORAGE

**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.

**Storage:** Store locked up.

**Minimum Storage Temperature:** Not determined

**Other Precautions:** Consult Federal, state and local laws and regulations pertaining to storage.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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

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

<table>
<thead>
<tr>
<th>Exposure Guidelines Component:</th>
<th>OSHA PEL</th>
<th>ACGIH TLV</th>
<th>NIOSH REL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Crystalline Silica, Quartz and Cristobalite</td>
<td>10 mg/m³ (%SiO₂ + 2) (respirable dust)</td>
<td>0.025 mg/m³ (respirable silica)</td>
<td>0.05 mg/m³ (respirable dust)</td>
</tr>
<tr>
<td>Glycerin</td>
<td>15 mg/m³ TWA (total); 5 mg/m³ TWA (respirable)</td>
<td>Not Established</td>
<td></td>
</tr>
<tr>
<td>Montmorillonite Clay</td>
<td>15 mg/m³ TWA (total); 5 mg/m³ TWA (respirable)</td>
<td>10 mg/m³ TWA (total); 3 mg/m³ TWA (respirable)</td>
<td></td>
</tr>
<tr>
<td>Other Ingredients</td>
<td>Not Applicable</td>
<td>Not Applicable</td>
<td></td>
</tr>
<tr>
<td>Difenoconazole</td>
<td>Not Established</td>
<td>Not Established</td>
<td></td>
</tr>
<tr>
<td>Mefenoxam</td>
<td>Not Established</td>
<td>Not Established</td>
<td></td>
</tr>
<tr>
<td>Sedaxane</td>
<td>Not established</td>
<td>Not Established</td>
<td></td>
</tr>
</tbody>
</table>

**Respiratory Protection:** For most well-ventilated conditions, no respiratory protection should be needed. If used in a poorly ventilated area, use a NIOSH approved air-purifying respirator with cartridges/canisters approved for general particulates.

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

**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 Protection:** Where eye contact is likely, use chemical splash goggles.

**Skin Protection:** 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 respirator is not normally required when handling this substance. Use effective engineering controls to comply with occupational exposure limits.

**Work/Hygienic Practices:** Never eat, drink, nor use tobacco in work areas. Practice good hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.

In case of emergency spills, use NIOSH approved respirator with any N, R, P, and HE filter.
**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Physical State:</strong></td>
<td>Liquid</td>
</tr>
<tr>
<td><strong>Odor:</strong></td>
<td>Faint paint</td>
</tr>
<tr>
<td><strong>Vapor Pressure (mm Hg):</strong></td>
<td>Difenconazole 2.5x10(-10) mmHg @ 77°F (25°C)</td>
</tr>
<tr>
<td></td>
<td>Mefenoxan 2.5 x 10 (-5) mmHg @ 77°F (25°C)</td>
</tr>
<tr>
<td></td>
<td>Sedaxane 4.9x10 (-10) mmHg @ 68% (20°C)</td>
</tr>
<tr>
<td><strong>Vapor Density (Air=1):</strong></td>
<td>Not determined</td>
</tr>
<tr>
<td><strong>Solubility in Water (wt %):</strong></td>
<td>Difenconazole 15mg/l @ 77°F</td>
</tr>
<tr>
<td></td>
<td>(25°C)</td>
</tr>
<tr>
<td></td>
<td>Mefenoxan 26g/l @ 77°F (25°C)</td>
</tr>
<tr>
<td></td>
<td>Sedaxane 14 mg/l @ 77°F (25°C)</td>
</tr>
<tr>
<td><strong>Viscosity (centistokes):</strong></td>
<td>Not determined</td>
</tr>
<tr>
<td><strong>Appearance and odor:</strong></td>
<td>Red, opaque liquid</td>
</tr>
<tr>
<td><strong>Specific Gravity (H2O=1):</strong></td>
<td>0.9303</td>
</tr>
<tr>
<td><strong>Density (lbs/gallon):</strong></td>
<td>1.13 g/ml; 9.31 lbs/gal</td>
</tr>
<tr>
<td><strong>Melting Point/Freezing Point:</strong></td>
<td>Not Available</td>
</tr>
<tr>
<td><strong>Boiling Point/Range:</strong></td>
<td>Not Available</td>
</tr>
<tr>
<td><strong>pH:</strong></td>
<td>6.0-7.5 (neat 68°F-72°F)</td>
</tr>
</tbody>
</table>

**SECTION 10: STABILITY AND REACTIVITY**

- **Reactivity:** Not reactive
- **Chemical Stability:** Product is stable under normal storage and storage conditions.
- **Possibility of Hazardous Reactions:** Will not occur
- **Conditions to Avoid:** Not available
- **Incompatible Materials:** None known
- **Hazardous Decomposition Products:** Not available.

**SECTION 11: TOXICOLOGICAL INFORMATION**

**ACUTE TOXICITY**
- **Eye Effects:** Minimally irritating (Rat).
- **Dermal Effects:** Non-Irritating (Rat), Skin Sensitization: Not a sensitizer (Guinea Pig); LD50 (Rat) >5050 mg/kg body weight
- **Acute Inhalation Effects:** LC50 (Rat): >2.63 mg/lk air – 4 hours
- **Acute Oral Effects:** See Ingestion
- **Ingestion:** Oral (LD50 Female Rat) >5000 mg/kg body weight

**CHRONIC TOXICITY**
- **Chronic Effects:** Difenconazole: Kidney and liver effects at high doses (>5000 ppm; rats), eye effects in dogs at high dose levels
  - Mefenoxan: Liver effects at high dose animal tests.
  - Sedaxane: STOT-Repeated exposure: No adverse effect has been observed in chronic toxicity tests.
- **Carcinogenicity:**
  - Difenconazole: Did not show carcinogenic effects in animal experiments
  - Mefenoxan: Non Observed
  - Sedaxane: At extremely high doses, numerically higher incidences of uterine, thyroid and liver tumors (male and/or female rates) and liver tumors (male mice) were within range of normal background variation and thus considered unrelated to treatment. Some Regulatory Authorities have taken a more conservative position that these high-dose findings are treatment related in rats and mice. The dose levels where these finding occur are not relevant to human exposure levels.
- **Mutagenicity:** Did not show mutagenic effects in animal experiments.
- **Teratogenicity:** Did not show teratogenic effect in animal experiments.
- **Reproductive Toxicity:** Difenconazole: None Observed
Mefenoxan: None Observed
Sedaxane: Did not show reproductive toxicity effects in animal experiments.

**Chemical Name**
- Crystalline Silica, Quartz and Cristobalite
- Glycerin
- Montmorillonite Clay
- Other ingredients
- Difenoconazole
- Mefanoxan
- Sedaxane

**NTP/IARC/OSHA Carcinogen**
- 1ARC 1; ACGIH A2
- No
- No
- No
- No
- No
- No

**Other Toxicity Information**
None

**Toxicity of Other Components**
- **Crystalline Silica, Quartz and Cristobalite**: Chronis inhalation exposure to crystalline silica is known to cause silicosis and pulmonary fibrosis in humans. Experimental animals exposed to crystalline silica developed respiratory tract cancers.
- **Glycerin**: Repeated or prolonged exposure to concentrated solutions may result in dermatitis.
- **Montmorillonite Clay**: Prolonged inhalation of excessive concentrations of dust may lead to lung injury.
- **Other ingredients**: Not applicable

**Specific Target Organ Toxicity**

**Active Ingredients**
- Difenoconazole: Brain, liver, kidney, gastrointestinal tract
- Mefenoxam: Liver
- Sedaxane: Not applicable

**Inert Ingredients**
- **Crystalline Silica, Quartz and Cristobalite**: Respiratory tract
- **Glycerin**: Skin
- **Montmorillonite Clay**: Respiratory tract
- **Other ingredients**: Not applicable

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**SECTION 12: ECOLOGICAL INFORMATION**

**ENVIRONMENTAL SUMMARY:** Not determined

**ECO-ACUTE TOXICITY**

**Difenoconazole**
- Fish (Rainbow Trout) 96-hour LC50 1.1 mg/l
- Invertebrate (Water Flea) Daphnia Magna 48-hour EC50 0.77 mg/l
- Green Algae 72-hour EbC50 0.032mg/l

**Mefenoxam**
- Fish (Rainbow Trout) 96-hour LC50 >121 ppm
- Invertebrate (Water Flea) Daphnia Magna 48-hour EC50 >113ppm
- Bird (Bobwhite Quail) 14-day LD50 981 mg/kg

**Sedaxane**
- Invertebrate (Water Flea) Daphnia Magna 48-hour EC50 6.10 mg/l
- Green Algae 96-hour EbC50 1.9mg/l
- Fish (Carp) 96-hour LC50 0.62 mg/l

**ENVIRONMENTAL EFFECTS:**

**Difenoconazole:** The information presented here is for the active ingredient, difenoconazole. Stable in soil and water. Low to moderate mobility in soil. Sinks in water (after 24 hours).

**Mefenoxam:** The information presented here is for the active ingredient, mefenoxam. Does not bioaccumulate. Not persistent in soil or water. Moderate mobility in soil. Mixes/sinks (after 24 hours).

**Sedaxane:** The information presented here is for the active ingredient, sedaxane. Material is not readily biodegradable. Material is not persistent in soil.
## SECTION 13: DISPOSAL CONSIDERATIONS

**Waste:** Dispose of in accordance with applicable Federal, state and local laws and regulations.

**Container:** Do not reuse product containers. Dispose of product containers, waste containers and residues in accordance with Federal, state and local laws and regulations.

**RCRA Characteristics:** It is the responsibility of the individual disposing of this product to determine the RCRA classification and hazard status of the waste.

## SECTION 14: TRANSPORT INFORMATION

**DOT:** (Ground) This product is not regulated by the U.S. Department of Transportation as a hazardous material for ground shipment.

**IMDG:** (Sea) Water Transport – International, Proper Shipping Name: Environmentally Hazardous Substance, Liquid, N.O.S. (Difenoconazole), Marine Pollutant; Hazard Class: 9; Identification Number: UN 3082; Packing Group PG III.

**IATA:** (Air) Proper shipping name: Environmentally Hazardous Substance, Liquid, N.O.S. (Difenoconazole); Hazard Class: 9; Identification Number: UN 3082; Packing Group: PG III

**TDG:** (Canada) Not determined

## SECTION 15: REGULATORY INFORMATION

**TSCA Inventory:** All components are listed or exempt from listing on the TSCA inventory, subject to FIFRA.

**EPA Registration Number(s):** 100-1382-1381

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 the hazard information as required on the pesticide label.

Caution: Causes moderate eye irritation. Avoid contact with eyes or clothing. Wear protective eyewear. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.

**SARA Title III Information:**

- **Section 302 - Extremely hazardous substances:** None listed
- **Section 311/312 – Hazard Categories:** Acute Health Hazard
- **Section 313 – The following chemicals are subject to the reporting requirements of Section 313 of Title III, Superfund Amendments and Reauthorization Act of 1986 and 40 CFR 372:** None listed

**CERCLA - This product contains the following chemicals which have a reportable quantity (RQ) under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA):** Not Applicable

**California Proposition 65: WARNING:** This product contains a chemical known to the state of California to cause cancer and/or reproductive harm.

**U.S. State Worker and Community Right-To-Know (RTK) Information (CT, IL, MA, MN, NH, NJ, PA, RI):**

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS #</th>
<th>State(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Silica, Crystalline</td>
<td>--</td>
<td></td>
</tr>
</tbody>
</table>

**Canadian Domestic Substances List:** Not determined

**WHIMIS Classification:** This product is not approved for use in Canada. WHIMIS classification is not determined.
### SECTION 16: OTHER

**Disclaimer:** The information presented herein is based on available data from reliable sources and is correct to the best of WinField Solutions’ knowledge. WinField Solutions, LLC makes no warranty, express nor implied, regarding the accuracy of the data or the results obtained from the use of this product. Nothing herein may be construed as recommending any practice or any product in violation of any law or regulations. The user is solely responsible for determining the suitability of any material or product for a specific purpose and for adopting any appropriate safety precautions. We disclaim all liability for injury or damage stemming from any improper use of the material or product described herein.

<table>
<thead>
<tr>
<th>Revision Date: 06/14/15</th>
<th>Supersedes document dated: NA</th>
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</thead>
<tbody>
<tr>
<td>Sections Revised: 1-16</td>
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