


NFPA HAZARD RATING				U.S. TRANSPORT SUMMARY	
0	Least				
1	Slight	3	Health		Not regulated by the U.S. DOT as a hazardous material. See Section 14 for additional information.
2	Moderate	1	Flammability		
3	High	0	Reactivity		
4	Severe				

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-[2-chloro-4-(4-chlorophenoxy)phenyl]-4-methyl-1,3-dioxolan-2-yl]methyl]; (R,S)-2[(2,6-dimethylphenyl)O-methylacetylanimo]-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 2 A (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	

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Response:	when using this product. Use only outdoors or in well ventilated area. Wear protective gloves, protective clothing, eye protection. 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.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	% (wt)	CAS Reg. #
Crystalline Silica, Quartz & Cristobalite	Trade Secret	14808-60-7
Glycerin	Trade Secret	56-81-5
Montmorillonite Clay	Trade Secret	Trade Secret
Other ingredients	91.46%	Trade Secret
Difenoconazole	5.86%	119446-68-3
Mefenoxam	1.46%	70630-17-0 & 69516-34-3
Sedaxane	1.22%	874967-67-6
*Ingredients not precisely identified are proprietary or non-hazardous. Values are not product specifications.		
See Section 8 for exposure limits.		

SECTION 4: FIRST AID MEASURES

Have the product container, label or Safety Data Sheet with you when calling a poison control center or doctor, or going for treatment.	
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.
<u>Most important symptoms/effects</u>	
	Eye irritation Respiratory irritation
<u>Indication of immediate medical attention and special treatment needed:</u>	
	There is no specific antidote if this product is ingested. Treat symptomatically

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 from the area 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

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decomposition or combustion.

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 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. Cover entire spill with absorbing material and place into 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.

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

Exposure Guidelines

Component:	OSHA PEL	ACGIH TLV	NIOSH REL
Crystalline Silica, Quartz and Cristobalite	10mg/m ³ (%SiO ₂ +2) (respirable dust)	0.025 mg/m ³ (respirable silica)	0.05 mg/m ³ (respirable dust)
Glycerin	15 mg/m ³ TWA (total); 5 mg/m ³ TWA (respirable)	Not Established	
Montmorillonite Clay	15 mg/m ³ TWA (total); 5 mg/m ³ TWA (respirable)	10 mg.m ³ TWA (total); 3mg/m ³ TWA (respirable)	
Other Ingredients	Not Applicable	Not Applicable	
Difenoconazole	Not Established	Not Established	
Mefenoxam	Not Established	Not Established	
Sedaxane	Not established	Not Established	

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.

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES			
Physical State:	Liquid	Specific Gravity (H₂O=1):	0.9303
Odor:	Faint paint	Density (lbs/gallon):	1.13 g/ml; 9.31 lbs/gal
Vapor Pressure (mm Hg):	Difenoconazole 2.5x10(-10) mmHg @77° F (25 °C) Mefenoxam 2.5 x 10 (-5) mmHg @ 77°F (25°C) Sedaxane 4.9x10 (-10) mmHg @ 68% (20°C)	Melting Point/Freezing Point:	Not Available
Vapor Density (Air=1):	Not determined	Boiling Point/Range:	Not Available
Solubility in Water (wt %):	Difenoconazole 15mg/l @ 77°F (25°C) Mefenoxam 26g/l @ 77°F(25°C) Sedaxane 14 mg/l @ 77°F (25°C)	pH:	6.0-7.5 (neat 68°F-72°F)
Viscosity (centistokes):	Not determined	Flash Point:	>214°F (Pensky-Martens CC)
Appearance and odor:	Red, opaque liquid		

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:	Difenoconazole: Kidney and liver effects at high doses (>5000ppm; 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:	Difenoconazole: 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:	Difenoconazole: None Observed

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	Mefenoxan: None Observed
	Sedaxane: Did not show reproductive toxicity effects in animal experiments.
Chemical Name	NTP/IARC/OSHA Carcinogen
Crystalline Silica, Quartz and Cristobalite	1ARC 1; ACGIH A2
Glycerin	No
Montmorillonite Clay	No
Other ingredients	No
Difenoconazole	No
Mefenoxan	No
Sedaxane	No
<u>Other Toxicity Information</u>	
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	
<u>Active Ingredients</u>	
Difenoconazole	Brain, liver, kidney, gastrointestinal tract
Mefenoxam	Liver
Sedaxane	Not Applicable
<u>Inert Ingredients</u>	
Crystalline Silica, Quartz and Cristobalite:	Respiratory tract
Glycerin:	Skin
Montmorillonite Clay:	Respiratory tract
Other ingredients:	Not applicable

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.

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

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

TDG: Not determined
(Canada)

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):

Chemical Name	CAS #	State(s)
Silica, Crystalline	--	

Canadian Domestic Substances List: Not determined

WHMIS Classification: This product is not approved for use in Canada. WHMIS classification is not determined.

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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.

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