

**FOR EMERGENCY, SPILL, LEAK, FIRE, EXPOSURE, OR ACCIDENT, CALL:
CHEMTREC 1-800-424-9300**

Section 1—Chemical Product and Company Identification		
Product Name:	Warden® Cereals HR	EPA Reg. No.: 400-574-1381
Common Name:	Systemic and contact broad-spectrum fungicide plus systemic insecticide	
Chemical Description:	Ipconazole/Metalaxyl/Imidacloprid	
Manufacturer's Name: WINFIELD SOLUTIONS, LLC P. O. Box 64589 St. Paul, MN 55164-0589	Medical Emergency Telephone Number: 1-877-424-7452 MSDS Creation Date: 6/7/2012	

Section 2—Hazards Identification
Emergency Overview: Red liquid. Product may cause oxygen deficiency in confined spaces; follow all OSHA regulations pertaining to confined space entry. See health effects below. CAUTION: Keep out of reach of children. Route(s) of Entry: Eyes, Inhalation, Skin, and Ingestion.
Health Hazards (Acute and Chronic): Inhalation: May be irritating to the respiratory system. Eyes: May irritate eyes. Skin: Absorption through skin may be harmful. Contact may cause irritation. Ingestion: Harmful if swallowed.
Medical Conditions Generally Aggravated by Exposure: None known. Preexisting respiratory conditions may be aggravated by exposure to mists.

Section 3—Composition Information on Ingredients		
Ingredient	% (wt)	CAS reg. #
Ipconazole	0.421%	125225-28-7
Metalaxyl	0.562%	57837-19-1
Imidacloprid	14.1%	138261-41-3
Ethylene glycol	20.0 - 25.0%	107-21-1

*Ingredients not specifically listed are non-hazardous and considered to be confidential business information.

NFPA HAZARD RATING:			
0	Least		
1	Slight	1	Health
2	Moderate	0	Flammability
3	High	0	Reactivity
4	Severe		

Section 4—First Aid Measures	
Inhalation:	Remove person to fresh air and assist breathing as needed. Call doctor or poison control center for treatment advice.
Ingestion:	Seek medical attention or call a poison control center immediately.
Eyes:	Flush with clean water for at least 15 minutes. Lift eyelids to facilitate irrigation. Seek medical attention if eye irritation persists.
Skin:	Remove contaminated clothing and wash before re-using. Flush skin with water, and then wash with soap and water. Seek medical attention if skin becomes irritated.

After first aid, get appropriate in-plant, paramedic, or community medical support.

Section 5—Fire and Explosion Hazard Data

Extinguishing Media: Use CO₂ and dry chemical for small fires. Use alcohol type foam or universal-type foam for large fires. Water jet is unsuitable for this product.

Special Fire Fighting Procedures: Wear self-contained breathing apparatus and full bunker gear. Smoke and fumes from fire may contain hazardous components. Do not let product or extinguishing waters into waterways,

Hazardous Combustion Products: Toxic gases may be formed in a fire situation. Carbon monoxide and other asphyxiates may form as well.

Unusual Fire and Explosion Hazards: Closed containers may explode from vapor expansion in high heat. Contain run-off by diking to prevent contamination of water supplies.

Section 6—Accidental Release Measures

Small Spills: Clean-up personnel should protect against mist inhalation and skin contact. Avoid generating mists. Spills should be cleaned up immediately to prevent spreading.

Large Spills: Clean-up personnel should protect against mist inhalation and skin contact. Avoid generating mist.

Containment: This product is highly toxic to aquatic invertebrates. Do not release into sewers or waterways. Dike spills to prevent contamination to water supplies. Contain spills and absorb liquids by covering with clay or other absorbent material. Vacuum, scoop, or sweep up material and place in a container for disposal.

Section 7—Precautions for Safe Handling and Use

Precautions to Be Taken in Handling and Storage: Store in cool, dry areas away from children, feed and food products and sources of heat. Immediately clean up spills that occur during handling or storage. Protect from freezing. Keep containers closed when not in use. Do not store in aluminum or metal vessels.

Other Precautions: Consult Local, State, and Federal regulations pertaining to storage and disposal.

Section 8—Control Measures/Personal Protection

Exposure Guidelines: Ethylene glycol (CAS # 107-21-1) 125 mg/m³ OSHA PEL

Respiratory Protection: Seek professional advice prior to respirator selection and use. Follow OSHA respirator regulations (29 CFR 1910.134) and, if necessary, wear a properly FIT TESTED MSHA/NIOSH-approved respirator.

Ventilation: **Local Exhaust:** Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs. Local exhaust ventilation is preferred.

NOTE TO END USERS: Refer to the pesticide product label for the required Personal Protective Equipment to be used during use of the product.

Protective Gloves: Wear chemically protective gloves.

Eye Protection: Wear protective eyeglasses and face shield or chemical safety goggles. Contact lenses are not eye protective devices.

Other Protective Clothing or Equipment: Wear chemically protective boots, aprons, and gauntlets to prevent prolonged or repeated skin contact.

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

Section 9—Physical/Chemical Characteristics

Physical State:	Liquid	Specific Gravity (H₂O=1):	1.093
Vapor Pressure (mm Hg):	Not determined	Freezing Point:	Not determined
Vapor Density (Air=1):	Not determined	Boiling Point:	Not determined
Solubility in Water (wt %):	Soluble/Dispersible	pH:	7.5 – 9.0
Appearance and odor:	Red liquid suspension with mild sweet odor	Flash Point:	>199°F

Section 10—Reactivity Data

Stability: Product stable under normal storage and handling conditions.

Chemical Incompatibilities: Not determined

Conditions to Avoid: Avoid excessive heat.

Hazardous Decomposition Products: Thermal decomposition may produce harmful gases and vapors.

Hazardous Polymerization: Will not occur.

Section 11—Toxicological Information

Eye Effects: Mild irritation possible

Skin Effects: Slight irritation; non-sensitizer

Acute Dermal Effects: >5,000 mg/kg (rat)

Acute Inhalation Effects: >2.52 mg/l (rat)

Acute Oral Effects: >3,129 mg/kg (rat)

Chronic Effects: Not determined

Mutagenicity: Not determined

Teratogenicity: Not determined

Carcinogenicity: NTP: Not available

IARC: Not available

OSHA: Not Available

Section 12—Ecological Information

Soil Absorption/Mobility: Mobile in soil profile.

This product is highly toxic to birds and aquatic invertebrates.

Ecotoxicology:

Ipconazole -

LC50 - Common carp (*Cyprinus carpio*) Result: 1.6 mg/l Exposure time: 96 h

EC50 - Water flea (*Daphnia magna*) Result: 1.5 mg/l Exposure time: 48 h

IC50 - *Selenastrum capricornutum* Result: 0.7 mg/l Exposure time: 72 h

Metalaxyl -

LC50 - Rainbow trout (*Oncorhynchus mykiss*) Result: > 100 mg/l Exposure time: 96 h

IC50 - Green algae (*Scenedesmus subspicatus*) Result: 33 mg/l Exposure time: 5 d

Ethylene glycol -

EC50 - Rainbow trout (*Oncorhynchus mykiss*) Result: 41,000 mg/l Exposure time: 4 d

Static LC50 - Rainbow trout (*Oncorhynchus mykiss*) Result: 40,761 mg/l Exposure time: 4 d

EC50 - *Selenastrum capricornutum* Result: 1,300 - 6,500 mg/l Exposure time: 96 h

EC50 - *Photobacterium phosphoreum*: Result: 620 mg/l Exposure time: 0.5 h

Section 13—Disposal Considerations

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

Container: See pesticide label for full instructions on container disposal.

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

Not regulated by the US DOT as a hazardous material.

Section 15—Regulatory Information

TSCA Inventory: This product is exempted from TSCA inventory requirements as it is intended solely for FIFRA regulated use.

SARA Title III, Section 302: None

SARA Title III, Section 311/312:	Immediate: No	Delayed: No
Sudden Release of Pressure: No	Fire: No	Reactive: No

SARA Title III, Section 313: Ethylene glycol (CAS # 107-21-1) maximum 25.0%

CERCLA: Ethylene glycol (CAS # 107-21-1) has a reportable quantity (RQ) of 5,000 lbs, or 20,000 lbs of product.

PROPOSITION 65: WARNING: This product may contain chemicals known to the State of California to cause cancer and birth defects or reproductive harm.

Section 16—Other

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