

**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 WR	EPA Reg. No. 400-573-1381
Common Name:	Systemic and contact broad-spectrum fungicide plus systemic insecticide	
Chemical Description:	Ipconazole, Metalaxyl, Imidacloprid mixture	
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: 5/24/2012	

Section 2—Hazards Identification
Emergency Overview: Red liquid with a mild sweet odor. 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 cause irritation of the upper respiratory tract. Eyes: Contact may cause eye irritation. Skin: Contact may cause irritation; absorption through the skin may be harmful. 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	0.439%	125225-28-7
Metalaxyl	0.585%	57837-19-1
Imidacloprid	2.95%	138261-41-3
Ethylene glycol	25.0 – 30.0%	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 a poison control center or doctor for treatment.
Ingestion:	Seek medical attention or call a poison control center immediately. Do not induce vomiting. Rinse mouth with water.
Eyes:	Flush with clean water for at least 15 minutes. Lift eyelids to facilitate irrigation. If present, remove contact lenses after first 5 minutes then resume rinsing. Seek medical attention if 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 alcohol resistant foam or foam on small fires. Dry chemical or CO₂ on larger fires. Water spray/jet is unsuitable for fire extinguishing.

Special Fire Fighting Procedures: Wear self-contained breathing apparatus and full bunker gear. Smoke and fumes from fire may contain hazardous components.

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. Keep containers closed when not in use.

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.

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):	1.051
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 with a mild sweet odor	Flash Point:	>199° F

Section 10—Reactivity Data

Stability: Product stable under normal storage and handling conditions.

Chemical Incompatibilities: None known.

Conditions to Avoid: Avoid excessive heat

Hazardous Decomposition Products: Thermal decomposition can lead to release of irritating gases and vapors.

Hazardous Polymerization: Will not occur.

Section 11—Toxicological Information

Eye Effects: Irritation
Skin Effects: Slight irritation (72 hr)
Acute Dermal Effects: >5,000 mg/kg (rat)
Acute Inhalation Effects: >2.52 mg/L (rat)
Acute Oral Effects: 3,129 mg/kg (rat)
Skin Sensitization: Non-sensitizer
Chronic Effects: No data available
Mutagenicity: No data available
Teratogenicity: No data available

Carcinogenicity: NTP: Not listed IARC: Not listed OSHA: Not listed

Section 12—Ecological Information

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

Section 13—Disposal Considerations

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

Container: See pesticide label for complete container disposal instructions.

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 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 30.0%

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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