

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

Section 1—Chemical Product and Company Identification

Product Name:	Warden® CX	EPA Reg. No.: 100-1459-1381
Common Name:	Neonicotinoid Insecticide	
Chemical Description:	Fludioxonil, Mefenoxam, Sedaxane, Thiamethoxam	
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: 01/22/2013	

Section 2—Hazards Identification

Emergency Overview: Red opaque liquid with a faint paint 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: Harmful if inhaled. Inhalation of mist may cause irritation of the upper respiratory tract.

Eyes: Causes mild irritation of eyes.

Skin: Contact may cause mild 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. #
Fludioxonil	1.0%	131341-86-1
Mefenoxam	5.99%	70630-17-0 & 69516-34-3
Sedaxane	1.0%	874967-67-6
Thiamethoxam	20.0%	153719-23-4
Glycerin		56-81-5
*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	1	Flammability
3	High	0	Reactivity
4	Severe		

Section 4—First Aid Measures

Inhalation: Remove person to fresh air and assist breathing as needed. Seek medical attention if irritation occurs.

Ingestion: Seek medical attention or call a poison control center immediately for 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 a poison control center or doctor. Do not give anything by mouth to an unconscious person.

Eyes: Flush with clean water for at least 15 minutes. Lift eyelids to facilitate irrigation. Remove contact lenses, if present, after 5 minutes, then continue rinsing eye. Seek medical attention if eye irritation persists.

Skin: Remove contaminated clothing and wash before re-using. Flush skin with water for 15-20 minutes, 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 dry chemical, foam or CO2 extinguishing media.

Special Fire Fighting Procedures: Wear self-contained breathing apparatus and full bunker gear. Smoke and fumes from fire may contain hazardous components. Prevent use of contaminated building, area and equipment until decontaminated. Water runoff can cause environmental damage. If water is used to fight fire, dike and collect runoff.

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: 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 mists. Spills should be cleaned up immediately to prevent spreading.

Containment: 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 waste and place in a container for disposal. Scrub area with hard water detergent (e.g. commercial products such as Tide, Joy, Spic and Span). Pick up wash liquid with additional absorbent material and place into a compatible disposal container. Seal container and dispose of in accordance with applicable Federal, state and local laws and regulations.

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.

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

Section 8—Control Measures/Personal Protection

Exposure Guidelines: Glycerin (CAS# 56-81-5) 15 mg/m³ OSHA PEL TWA, 5 mg/m³ (respirable) OSHA PEL, 10 mg/m³ ACGIH TLV TWA; Mefenoxam (CAS# 70630-17-0 & 69516-34-3) 10 mg/m³ Syngenta OEL TWA; Fludioxonil (CAS# 131341-86-1) 10 mg/m³ Syngenta OEL TWA; Thiamethoxam (CAS# 153719-23-4) 3 mg/m³ Syngenta OEL TWA; Sedaxane (CAS# 874967-67-6) <0.1 mg/m³ Syngenta OEL 8-hr

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 NIOSH-approved respirator with any R, P or HE filter.

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

Protective Gloves: 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)

Eye Protection: Where eye contact is likely, use chemical splash goggles. Contact lenses are not eye protective devices.

Other Protective Clothing or Equipment: Wear coveralls, socks and chemical-resistant footwear. 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):	1.136 g/cm ³
Vapor Pressure (mm Hg):	Not Available	Freezing Point:	Not Available
Vapor Density (Air=1):	Not Available	Boiling Point:	Not Available
Solubility in Water (wt %):	Not Available	pH (1% solution in deionized H₂O):	6.3
Appearance and odor:	Red opaque with faint paint odor	Flash Point:	Not Available

Section 10—Reactivity Data

Stability: Product stable at room temperature in closed containers under normal storage and handling conditions.

Chemical Incompatibilities: Not Available

Conditions to Avoid: Not Available

Hazardous Decomposition Products: Not Available

Hazardous Polymerization: Will not occur.

Section 11—Toxicological Information

Eye Effects:	Minimally irritating (rabbits)
Skin Effects:	LD50 >5000 mg/kg body weight; Slightly irritating (rabbits); Not a sensitizer (guinea pig)
Acute Inhalation Effects:	LC50 >2.54 mg/L air – 4 hours
Acute Oral Effects:	LD50 = 3129 mg/kg body weight
Chronic Effects:	Fludioxonil: Liver and kidney toxicity at high dose levels. Mefenoxam: Liver effects at high dose animal tests. Thiamethoxam: Subchronic: Liver effects occurred in rodents only at high dose levels. Not neurotoxic after high acute and subchronic exposure in rats.
Mutagenicity:	None known
Teratogenicity:	Fludioxonil: Delayed development at doses causing maternal toxicity.
Carcinogenicity:	NTP: Not listed IARC: Not listed OSHA: Not listed

Section 12—Ecological Information

Ecotoxicity Effects:	
Mefenoxam:	
Fish (Rainbow Trout) 96-hour LC50	> 121 ppm
Invertebrate (Water Flea) Daphnia Magna 48-hour EC50	> 113 ppm
Bird (Bobwhite Quail) 14-day LD50	981 mg/kg
Fludioxonil:	
Fish (Rainbow Trout) 96-hour LC50	0.47 ppm
Green Algae 5-day EC50	0.087 ppm
Invertebrate (Water Flea) Daphnia Magna 48-hour EC50	0.9 ppm
Bird (Bobwhite Quail) 14-day LD50	> 2000 mg/kg
Thiamethoxam:	
Fish (Rainbow Trout) 96-hour LC50	> 100 ppm
Bird (Mallard Duck) LD50 Oral	576 mg/kg
Invertebrate (Daphnia Magna) 48-hour EC50	> 106 ppm
Green Algae 4-day EC50	> 97 ppm
Sedaxane:	
Invertebrate (Water Flea) Daphnia Magna 48-hour EC50	6.10 mg/l
Green Algae 96-hour EbC50	1.9 mg/l
Fish (Carp) 96-hour LC50	0.62 mg/l

Environmental Fate:

The information presented here is for the active ingredient, fludioxonil.

Does not bioaccumulate. Persistent in soil. Stable in water. Low mobility in soil. Sinks in water (after 24 h).

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 h).

The information presented here is for the active ingredient, Sedaxane.

Material is not readily biodegradable. Material is not persistent in soil.

The information presented here is for the active ingredient, thiamethoxam.

Not persistent in soil. Stable in water. Moderate mobility in soil. Floats in water (after 24 h).

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 in accordance with applicable 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

Not regulated as a hazardous material by the U.S. DOT.

Section 15—Regulatory Information

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

SARA Title III, Section 302: Not applicable

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

SARA Title III, Section 313: Not Applicable

CERCLA: Not Applicable

PROPOSITION 65: WARNING: This product does not contain chemicals known to the State of California to cause cancer and birth defects or reproductive harm.

Section 16—Other

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