

MATERIAL SAFETY DATA SHEET

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Cygnus® 50 WG

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME:

Cygnus® 50 WG

PRODUCT DESCRIPTION: Fungicide

MANUFACTURER

The Scotts Company
Earthgro - Hyponex - Miracle Gro - Scotts
Scotts Sierra - Swiss Farms
14111 Scottslawn Road
Marysville, OH 43041

**24 HR. EMERGENCY TELEPHONE
NUMBERS**

CHEMTREC (U.S.): (800) 424-9300
International: 1-703-527-3887
Emergency Phone: 1-937-644-0011

EPA REG. NO.:

7969-124 PN: 95220

2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Chemical Name</u>	<u>CAS#</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>
Kresoxim-methyl	143390-89-0	None	None

COMMENTS:

Product contains 50% Kresoxim-methyl and 50% inert ingredients. The ACGIH Threshold Limit Values (TLV) for nuisance (inert) dusts containing < 1% crystalline silica and no asbestos are: 10 mg/m³ inhalable particulates and 3 mg/m³ respirable particulate. The OSHA TLV is 15 mg/m³ total dust, 5 mg/m³ respirable fraction.

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

IMMEDIATE CONCERNS:

- Harmful if swallowed, inhaled, or absorbed through skin.
- Causes eye irritation.
- Do not get on skin, in eyes, or on clothing
- Avoid breathing vapor or spray mist.

MEDICAL CONDITIONS AGGRAVATED:

None known.

4. FIRST AID MEASURES

EYES:

If in eyes, hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing. Call a poison control center or doctor for treatment advice.

SKIN:

If on skin or clothing, take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

INGESTION:

If swallowed, call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

INHALATION:

Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

NOTES TO PHYSICIAN:

This compound does not cause any definitive symptoms that would be diagnostic. No specific antidote is available. Treat the patient symptomatically.

5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA:

Dry chemical, water fog, foam, CO2.

EXPLOSION HAZARDS:

May form an explosive dust/air mixture.

FIRE FIGHTING PROCEDURES:

Firefighters should be equipped with self-contained breathing apparatus and turnout gear.

HAZARDOUS DECOMPOSITION PRODUCTS:

Oxides of carbon and nitrogen.

6. ACCIDENTAL RELEASE MEASURES

GENERAL PROCEDURES:

Emergency response workers should use SCBA with Level B protection if dusts will be generated. Dry material may be recovered and returned to original container for use. Dike and contain spill with inert material (sand, earth, etc.) and transfer liquid and solid diking material to separate containers for disposal. Keep the spill out of all sewers and open bodies of water.

7. HANDLING AND STORAGE

HANDLING:

PESTICIDE APPLICATORS & WORKERS must refer to the Product Label and Directions For Use attached to the product for Agricultural Use Requirements in accordance with the EPA Worker Protection Standard 40 CFR part 170.

Applicators and other handlers must wear long-sleeved shirt and long pants, waterproof gloves, chemical goggles, shoes and socks. For handling activities, supplied air respirators should be worn if large quantities of dust are generated or prolonged exposure possible.

Wash hands with soap and water after handling product. Avoid container breakage. Avoid inhalation or contact with skin, eyes, or clothing. Do not contaminate water sources when disposing of equipment wash waters. Keep out of lakes, streams, or ponds. **KEEP OUT OF REACH OF CHILDREN.**

STORAGE:

See Label. Store in a cool, dry place away from heat or open flame. **KEEP AWAY FROM CHILDREN.** Do not contaminate water, food, or feed by storage or disposal. Storage temperature should not exceed 85 degrees F.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS:

Whenever possible, engineering controls should be used to minimize the need for personal protective equipment.

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE:

Wear goggles, face shield, or safety glasses.

SKIN:

Applicators and other handlers must wear long-sleeved shirt and long pants, waterproof gloves, and chemical-resistant footwear plus socks. See label for additional precautions and user safety recommendations.

RESPIRATORY:

Supplied air respirators should be worn.

WORK HYGIENIC PRACTICES:

Users should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE:

Granular

ODOR:

Mild sulfur-like

COLOR:

Dark brown

pH:

5.8 (1% solution)

VAPOR PRESSURE:

0.0175 x 10⁽⁻⁶⁾ mmHg @ 20 deg.C

MELTING POINT:

97.2°C to 101.7°C

SOLUBILITY IN WATER:

Dispersible

DENSITY:

541 g/L

10. STABILITY AND REACTIVITY

STABLE:

YES

HAZARDOUS POLYMERIZATION:

NO

CONDITIONS TO AVOID:

Heat and open flame.

INCOMPATIBLE MATERIALS:

Avoid contact with strong oxidizing agents.

COMMENTS:

Product is not an oxidizer and is not corrosive to metal.

11. TOXICOLOGICAL INFORMATION

ACUTE

EYES:

Not irritating (rabbit).

DERMAL LD₅₀:

>2000 mg/kg (rat); Skin Irritation - Not Irritating (rabbit).

ORAL LD₅₀:

>5000 mg/kg (rat)

INHALATION LC₅₀:

>5.7 mg/L (4-hour, rat).

SENSITIZATION:

Not sensitizing

CARCINOGENICITY:**CARCINOGENICITY COMMENTS:**

In a long-term rat study, liver tumors were observed at the highest dose levels of kresoxim-methyl. The US EPA has classified kresoxim as a Class C(q) carcinogen.

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL DATA:

For the active ingredient:

Rainbow Trout, [96-hour] LC50=0.5 mg/L.

Rainbow Trout, [96-hour] NOEC=0.215 mg/L.

Rainbow Trout, [28 days] NOEC=0.02 mg/L.

In a 28 day sublethal study in rainbow trout, the no observed effect concentration (NOEC) is 0.167 mg/L.

Daphnia magna, LC50=0.35 mg/L.

Daphnia magna, [NOEC=0.062 mg/L.

Mysid Shrimp, LC50=59 ppb.

Eastern Oyster (Shell Deposition), LC50=15 ppb.

Acute Algal Toxicity, (72-hr) EC/LC50=0.071 mg/L.

Practically non-toxic in birds when administered orally or in the diet.

ECOTOXICOLOGICAL INFORMATION:

This pesticide is toxic to freshwater and estuarine fish and invertebrates. Do not apply directly to water, areas where surface water is present, or intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment wash waters. This chemical has properties and characteristics associated with chemicals detected in ground water. The use of this chemical in alkaline areas where soils are permeable, particularly where the water table is shallow, may result in ground water contamination.

GENERAL COMMENTS:

Consult Label and Directions For Use for additional environmental hazards.

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD:

Disposal must be in accordance with Federal, state, and local regulations. Dispose of container in an approved waste facility.

EMPTY CONTAINER:

Plastic Containers: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose in a sanitary landfill, or by incineration, if allowed by state and local authorities. If disposal is by burning, stay out of smoke.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

PROPER SHIPPING NAME:

This product is not DOT regulated when transported over land in non-bulk packaging.

OTHER SHIPPING INFORMATION:

Shipping Description: Environmentally hazardous substance, solid, n.o.s. (kresoxim-methyl), 9, UN3077, PG III, Marine Pollutant - Only when transported in bulk or when transported by vessel over water.

SPECIAL SHIPPING NOTES:

The description shown may not apply to all shipping situations. Consult 49CFR, or appropriate Dangerous Goods Regulations, for additional description requirements (e.g., technical name) and mode-specific or quantity-specific shipping requirements.

15. REGULATORY INFORMATION

UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

311/312 HAZARD CATEGORIES:

FIRE:

YES PRESSURE GENERATING: NO REACTIVITY: YES ACUTE: YES CHRONIC: NO

16. OTHER INFORMATION

REVISION SUMMARY

New MSDS

NFPA CODES

HEALTH:

1 FIRE: 3 REACTIVITY: 1

NFPA STORAGE CLASSIFICATION:

May form an explosive dust/air mixture.

MANUFACTURER DISCLAIMER:

The information contained herein is, to the best of the Manufacturer's (see Section 1) knowledge and belief, accurate and reliable as of the date of preparation of this document. However, no warranty or guarantee, express or implied, is made as to the accuracy or reliability, and the Manufacturer shall not be liable for any loss or damage arising out of the use thereof. No authorization is given or implied to use any patented invention without a license. In addition, the Manufacturer shall not be liable for any damage or injury resulting from abnormal use, from any failure to adhere to recommended practices or from any hazards inherent in the nature of the product.