


<p><b>NFPA HAZARD RATING</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%; text-align: center;">0</td> <td style="width: 15%;">Least</td> <td style="width: 10%;"></td> <td style="width: 10%;"></td> <td style="width: 10%;"></td> <td style="width: 10%;"></td> </tr> <tr> <td style="text-align: center;">1</td> <td>Slight</td> <td style="text-align: center;">2</td> <td><b>Health</b></td> <td></td> <td></td> </tr> <tr> <td style="text-align: center;">2</td> <td>Moderate</td> <td style="text-align: center;">0</td> <td><b>Flammability</b></td> <td></td> <td></td> </tr> <tr> <td style="text-align: center;">3</td> <td>High</td> <td style="text-align: center;">0</td> <td><b>Reactivity</b></td> <td></td> <td></td> </tr> <tr> <td style="text-align: center;">4</td> <td>Severe</td> <td></td> <td></td> <td></td> <td></td> </tr> </table>	0	Least					1	Slight	2	<b>Health</b>			2	Moderate	0	<b>Flammability</b>			3	High	0	<b>Reactivity</b>			4	Severe					<p><b>U.S. TRANSPORT SUMMARY</b></p> <p style="text-align: center;">Not regulated by the U.S. DOT as a hazardous material for ground shipment. See Section 14 for Additional Information.</p>
0	Least																														
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SECTION 1: IDENTIFICATION	
<p><b>Product Name:</b> Praiz®  <b>EPA Registration #:</b> 9779-320  <b>Common Name:</b> Organochlorine fungicide.  <b>Chemical Description:</b> Chlorothalonil  <b>Recommended Uses:</b> Agricultural Fungicide. See product label for complete list of uses and use sites.  <b>Restrictions for Use:</b> See product label for information regarding restrictions on the use of this product.</p>	<p><b>MEDICAL EMERGENCY TELEPHONE NUMBER:</b> 1-877-424-7452 (24hrs)</p> <p><b>Non-Emergency Business Inquiries:</b> 1-855-494-6343                  Mon – Fri 8am – 5pm (Central Standard Time)</p>
<p><b>Manufactured For:</b>                  WINFIELD SOLUTIONS, LLC                  P. O. Box 64589                  St. Paul, MN 55164</p>	
<p><b>FOR EMERGENCY, SPILL, LEAK, FIRE, EXPOSURE, OR ACCIDENT, CALL:</b>                  CHEMTREC 1-800-424-9300 (24 hours)</p>	

SECTION 2: HAZARDS IDENTIFICATION	
<p><b>EMERGENCY OVERVIEW:</b> Light gray to off-white liquid suspension. Slight chlorine odor. Causes substantial but temporary eye injury. May be fatal if inhaled. May cause respiratory irritation.</p>	
<p><b>POTENTIAL HEALTH EFFECTS:</b>  <b>Eyes:</b> Causes substantial but temporary eye injury.  <b>Skin:</b> May cause slight irritation.  <b>Inhalation:</b> May be fatal if inhaled. May cause respiratory irritation  <b>Ingestion:</b> May cause gastric upset.  <b>Preexisting Conditions:</b> Skin contact may aggravate preexisting skin conditions. Inhalation of mists may aggravate preexisting respiratory conditions.  <b>Chronic Health Effects:</b> Laboratory studies have indicated that chlorothalonil may have oncogenic potential. Worker exposure studies have shown that exposure levels are well below threshold levels.</p>	
<p><b>Carcinogenicity</b></p>	<p>NTP: Chlorothalonil                  Evidence of Carcinogenicity</p> <p>IARC: Chlorothalonil                  Group 2B</p> <p>OSHA: Not listed.</p>
<p><b>OSHA HCS 2012 CLASSIFICATION:</b> Acute Inhalation Toxicity Category 2; Eye Irritation Category 2A; Carcinogenicity Category 2; STOT SE Category 3</p>	
<p><b>SIGNAL WORD:</b> DANGER</p>	
<p><b>HAZARD STATEMENTS:</b>                  Fatal if inhaled.                  Causes serious eye irritation.                  May cause respiratory irritation.                  Suspected of causing cancer.</p>	
<p><b>Percent of product with unknown toxicity:</b> 0%</p>	

*Continued on next page*

**PRECAUTIONARY STATEMENTS:**

**Prevention:** Wash hands thoroughly after handling. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe mist, vapor or spray. Use only outdoors or in a well ventilated area. Wear respiratory protection. Wear protective gloves, protective clothing, eye protection and face protection.

**Response:** **If inhaled:** Remove person to fresh air and keep comfortable for breathing. Immediately call a poison control center (1-877-424-7452) or doctor for treatment advice.  
**If in eyes:** Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.  
**If exposed or concerned:** Get medical advice/attention.

**Storage:** Store in a well-ventilated place. Keep container tightly closed. Store locked up.

**Disposal:** Dispose of contents/container in accordance with Federal, state and local regulations. See Section 13 of the SDS and the pesticide label for additional disposal information.

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

Ingredient	% (wt)	CAS Reg. #
Chlorothalonil	54.0%	1897-45-6
Propylene glycol	< 4.0%	57-55-6

See Section 8 for exposure limits.

**SECTION 4: FIRST AID MEASURES**

**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.

**Ingestion:** Call a poison control center or doctor for treatment advice if you feel unwell. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

**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 eye. Call a poison control center or doctor for treatment advice if irritation persists.

**Skin:** Take off contaminated clothing. Rinse skin with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice if irritation occurs.

**SECTION 5: FIRE FIGHTING MEASURES**

**Suitable Extinguishing Media:** Use carbon dioxide or dry chemical for small fires and water fog or foam (alcohol, polymer or ordinary) for large fires. Water stream may spread flames.

**Special Fire Fighting Procedures:** Fire fighters should use self-contained breathing apparatus and full turnout gear. Prevent runoff of fire water. Avoid exposure to smoke.

**Hazardous Combustion Products:** Hazardous decomposition products – hydrogen cyanides, hydrogen chloride, nitrogen oxides.

**Unusual Fire and Explosion Hazards:** Not considered flammable but may burn at high temperatures. Not explosive.

**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:** Contain spilled product by diking area with sand or earth.

**Methods for Clean-up:** Avoid dust formation. Vacuum, scoop, or sweep up material and place in a container for disposal. Do not place spilled material back in original container.

**Other Information:** None known.

**SECTION 7: HANDLING AND STORAGE**

**Handling:** RECOMMENDATIONS ARE FOR MANUFACTURING, COMMERCIAL BLENDING, AND PACKAGING WORKERS. PESTICIDE APPLICATORS AND WORKERS must refer to the pesticide 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. Ensure adequate ventilation. Immediately clean up spills that occur during handling. Keep containers closed when not in use. Practice good hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.

**Storage:** Store in secured, cool, dry areas designated specifically for pesticides, away from children, feed and food products and sources of heat. Keep containers closed when not in use. See pesticide product label for additional storage information.

**Minimum Storage Temperature:** Not determined.

**Other Precautions:** Incompatible products: Strong acids, strong bases, strong oxidizers.

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Exposure Guidelines**

Component:	OSHA PEL	ACGIH TLV	NIOSH REL
	Not established.	Not established.	Not determined.

**NOTE TO END USERS:** PERSONAL PROTECTIVE EQUIPMENT (PPE) AND CLOTHING LISTED IN THIS SECTION IS FOR MANUFACTURING, COMMERCIAL BLENDING AND PACKAGING WORKERS. APPLICATORS AND HANDLERS SHOULD REFER TO THE PESTICIDE PRODUCT LABEL FOR PROPER PERSONAL PROTECTIVE EQUIPMENT (PPE) AND CLOTHING.

**Respiratory Protection:** Use NIOSH/MSHA approved respirator for organic vapors. Use positive pressure contained breathing apparatus where emergency conditions or where exposure limits are exceeded.

**Engineering Controls:** **Local Exhaust:** Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs or other specified exposure limits. Local exhaust ventilation is preferred.

**Protective Gloves:** Wear chemical resistant gloves to prevent skin exposure.

**Eye Protection:** Wear chemical goggles or safety glasses. Contact lenses are not eye protective devices.

**Other Protective Clothing or Equipment:** Chemical resistant coveralls, apron and foot coverings.

**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.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

<b>Physical State:</b>	Liquid	<b>Specific Gravity (H<sub>2</sub>O=1):</b>	1.36
<b>Vapor Pressure (mm Hg):</b>	Not determined.	<b>Density (lbs/gallon):</b>	11.3
<b>Vapor Density (Air=1):</b>	Not determined.	<b>Freezing Point:</b>	Not determined.
<b>Solubility in Water:</b>	Disperses in water.	<b>Boiling Point/Range:</b>	Not determined.
<b>Viscosity:</b>	Not determined.	<b>pH (undiluted):</b>	Not determined.
<b>Appearance and odor:</b>	Light gray to off-white liquid suspension. Slight chlorine odor.	<b>Flash Point:</b>	Not applicable.

**SECTION 10: STABILITY AND REACTIVITY**

**Reactivity:** None known.

**Chemical Stability:** Product is stable at ambient temperature and pressure, under normal storage and handling conditions.

**Possibility of Hazardous Reactions:** Will not occur.

**Conditions to Avoid:** Direct sunlight. Extremely high or low temperatures.

**Incompatible Materials:** Strong acids, strong bases, strong oxidizers.

**Hazardous Decomposition Products:** Hydrogen cyanides, hydrogen chloride, nitrogen oxides.

## SECTION 11: TOXICOLOGICAL INFORMATION

**ACUTE TOXICITY**

Eye Effects (rabbit):	Causes substantial but temporary eye injury. May cause opacity which is reversible in 21 days.
Skin Effects (rabbit):	Slight irritant.
Acute Dermal Effects (rabbit):	LC <sub>50</sub> > 2030 mg/Kg
Acute Inhalation Effects (rat):	LC <sub>50</sub> = 2.11 mg/L male    LC <sub>50</sub> = 0.23 mg/L female May cause respiratory irritation.
Acute Oral Effects (rat):	LD <sub>50</sub> = 5050 mg/kg

**CHRONIC TOXICITY**

Carcinogenicity:	Suspected of causing cancer (chlorothalonil). IARC group - 2B. National Toxicity Program (NTP) Status – Evidence of Carcinogenicity.
Mutagenicity:	Not classified.
Teratogenicity:	Not classified.
Reproductive Toxicity:	Not classified.

## SECTION 12: ECOLOGICAL INFORMATION

**ENVIRONMENTAL SUMMARY:****ECOTOXICITY DATA:**

Fish Acute and Prolonged Toxicity:	Chlorothalonil – LC <sub>50</sub> = 23-84 ppb (freshwater fish spp); LC <sub>50</sub> /EC <sub>50</sub> 3.6 – 154 ppb (estuarine/marine organisms)
Aquatic Invertebrate Acute Toxicity:	Chlorothalonil – LC <sub>50</sub> = 68 ppb ( <i>D. magna</i> )
Aquatic Plant Toxicity:	Not determined.
Bird Acute and Prolonged Toxicity:	Not determined.
Honeybee Toxicity:	Not determined.

**ENVIRONMENTAL EFFECTS:**

Soil Absorption/Mobility:	Not determined.
Persistence and degradability:	Not determined.
Bioaccumulative Potential:	Not determined.
Other adverse effects:	Not determined.

## SECTION 13: DISPOSAL CONSIDERATIONS

**Waste:** Dispose of in accordance with applicable Federal, state and local laws and regulations.  
**Container:** Triple rinse and recycle the container or dispose of in accordance with Federal, state and local laws and regulations.  
**See pesticide product label for full instructions on 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

**DOT:**

(Domestic    Not Regulated  
Ground)

**IMDG:**

(Sea)    UN3082, Environmentally Hazardous Substance, Liquid, N.O.S. (Chlorothalonil), Marine Pollutant, 9, PG III

**IATA:**

(Air)    UN3082, Environmentally Hazardous Substance, Liquid, N.O.S. (Chlorothalonil), Marine Pollutant, 9, PG III

## SECTION 15: REGULATORY INFORMATION

**TSCA Inventory:****SARA Title III Information:**

**Section 302 - Extremely hazardous substances:** None listed.

**Section 311/312 - Hazard Categories:** Immediate (acute) health hazard. Delayed (chronic) 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:

Chlorothalonil - 54%

**CERCLA -** This product contains the following chemicals which have a reportable quantity (RQ) under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA): None listed.

**EPA Registration Information:** 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 is the hazard information anticipated to be required on the pesticide label.

**WARNING**

Causes substantial but temporary eye injury. May be fatal if inhaled. Harmful if absorbed through skin. Avoid contact with skin, eyes, or clothing. Harmful if swallowed. Do not breathe vapor or spray mist.

**California Proposition 65: WARNING:** This product contains chemicals known to the State of California to cause cancer.

**U.S. State Worker and Community Right-To-Know (RTK) Information (CT, IL, MA, MN, NH, NJ, PA, RI):**

Chemical Name	CAS #	State(s)
Chlorothalonil	1897-45-6	MA, NJ, PA
Propylene glycol	57-55-6	NJ, PA

## SECTION 16: OTHER

**Disclaimer:** The information presented herein is based on available data from reliable sources and is correct to the best of United Suppliers' knowledge. United Suppliers, Inc. 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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**Sections Revised:** 14, 15