

**SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

<b>COMPANY ADDRESS:</b> RedEagle International LLC 5143 S. Lakeland Drive - Suite 4 Lakeland, FL 33813	<b>EMERGENCY TELEPHONE NUMBERS:</b> (800) 424-9300 (CHEMTREC, transportation and spills) (800) 222-1222 American Association of Poison Control Centers
<b>PRODUCT NAME:</b> <b>CHEMICAL NAME:</b>	<b>PROPICONAZOLE 4L</b> 1-[[2-(2,4 -dichlorophenyl)-4-propyl-1,3-dioxolon-2-yl]methyl]-1H-1,2,4-triazole
<b>PRODUCT USE:</b> <b>PRODUCT CODE:</b>	<b>Fungicide</b> EPA Reg. No. 85678-70

**SECTION 2 - HAZARDS IDENTIFICATION SUMMARY**

(As defined by OSHA Hazard Communication Standard, 29 CFR 1910.1200)

Light brown clear liquid

<b>HEALTH HAZARDS: WARNING</b>	<b>HAZAD CLASSIFICATION</b>	<b>CATEGORY</b>
Harmful if swallowed, Harmful if inhaled	Acute tox, oral	4
Causes eye irritation, Causes mild skin irritation	Eye damage/Irritation	2B
Combustible liquid	Skin irritation	3
	Flammable Liquid	4

**PHYSICAL HAZARDS:**  
May release toxic fumes if burned.

**ENVIRONMENTAL HAZARDS:**  
Very toxic to aquatic life.



**SECTION 3 – COMPOSITION, INFORMATION OF INGREDIENTS**

COMPONENT	PERCENTAGE	CAS No.
Propiconazole	41.80%	60207-90-1
Propylene glycol Ingredients	12.0%	57-55-6
N-butyl alcohol	27.53%	71-36-3
Other ingredients	18.67%	n/a

**SECTION 4 - FIRST AID MEASURES**

First Aid respondents should use protective equipment in Section 8 if there is a potential exposure to product.

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

**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.

**IF SWALLOWED:** Call a poison control center or doctor immediately for treatment advice. Do not induce vomiting unless told to do so by poison control center or doctor. Do not give any liquid to a person. Do not give anything by mouth to an unconscious person.

**IF INHALED:** 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.

**NOTE TO PHYSICIAN:** Probable mucosal damage may contraindicate the use of gastric lavage. No specific antidote. Treat symptomatically.

Have a product container or label with you when calling a poison control center or doctor, or going for treatment.

## SECTION 5 - FIRE FIGHTING MEASURES

### NFPA (National Fire Protection Association) HAZARD RATINGS

HEALTH	FLAMMABILITY	REACTIVITY
1	2	0

4=Severe 3=Serious 2=Moderate 1=Slight 0=Minimal

**FLASHPOINT:** 45.8 °C (114.44° F)

**EXTINGUISHING MEDIA:** Use foam, dry chemical, carbon dioxide, or water spray when fighting fires involving this material.

**FIRE AND EXPLOSION HAZARD:** Can burn in fire, releasing irritating and toxic gases.

**FIRE FIGHTING INSTRUCTIONS:** Evacuate area and fight fire upwind from a safe distance to avoid hazardous vapors and decomposition products. Dike and collect water used to fight fire to prevent environmental damage due to run off. Minimize use of water to prevent environmental contamination.

**FIRE FIGHTING EQUIPMENT:** Full firefighting turn-out gear (Bunker gear) including self-contained breathing apparatus with full face piece.

## SECTION 6 - ACCIDENTAL RELEASE MEASURES

**IN CASE OF SPILLS OR LEAKS:** Stop the source of the spill if safe to do so. Contain the spill to prevent further contamination of soil, surface water, or ground water. Clean up spills immediately. Observe precautions in Section 8 of this document. Keep unnecessary and unprotected personnel from entering.

**SMALL SPILL:** Absorb small spills with sand, vermiculite, or other absorbent inert ingredients. Place material in a container for proper disposal.

**LARGE SPILL:** Dike spill using absorbent or impervious material such as clay or sand. Recover and contain as much free liquid as possible for reuse or disposal. Allow absorbed material to solidify and scrape up for disposal. After removal, clean contaminated area thoroughly with water. Pick up wash liquid with additional absorbent for disposal. Minimize use of water to prevent environmental contamination.

**CAUTION:** Minimize use of water to prevent runoff into municipal sewers or other open bodies of water and minimize environmental contamination. Be sure to isolate any contaminated water. Contact your State Pesticide or Environmental Control Agency, or nearest EPA Regional Office for guidance on disposal.

## SECTION 7 - HANDLING AND STORAGE

### KEEP OUT OF REACH OF CHILDREN!

**HANDLING:** Use only in a well-ventilated area. Wear proper safety equipment specified in Section 8 when mixing, loading or otherwise handling concentrate. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing if pesticide gets inside clothing. Then wash thoroughly and put on clean clothing. Remove PPE after handling this product. Wash outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing. Do not reuse container.

**STORAGE:** Keep pesticide in original container. Keep container tightly closed when not in use. Store in a locked storage area. Avoid cross contamination with other pesticides or fertilizers during handling and storage. Store in a cool, dry place. Do not contaminate water, feed, or food by storage and disposal. Do not store diluted spray.

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

**ENGINEERING CONTROLS:** Proper ventilation is required when handling or using this product to minimize exposure to airborne contaminants. Local mechanical exhaust ventilation may be required. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

**PERSONAL PROTECTIVE EQUIPMENT:**

**EYE PROTECTION:** Protective eyewear

**SKIN PROTECTION:** Long-sleeved shirt and long pants, shoes plus socks, and chemical-resistant gloves.

**RESPIRATOR:** Normally not required. If handling in an enclosed environment where vapors or mists may exceed acceptable levels, wear NIOSH approved air-purifying respirator approved for pesticides.

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning and maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

**USER SAFETY RECOMMENDATIONS:** 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 outside of gloves before removing. As soon as possible wash thoroughly and change into clean clothing.

**SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance:</b>	Light brown clear liquid
<b>Odor:</b>	Paint smell
<b>pH:</b>	5.6-6.0
<b>Boiling Point:</b>	No data
<b>Flash Point:</b>	45.8° C
<b>Evaporation Rate:</b>	No data
<b>Flammability:</b>	45.8° C
<b>Flammability Limits:</b>	No data
<b>Vapor Pressure:</b>	No data
<b>Vapor Density:</b>	No data
<b>Relative Density:</b>	1.04-1.06 (8.67-8.83 lb/gal)
<b>Solubility:</b>	Emulsifies
<b>Partition Coefficient:</b>	No data
<b>Auto-Ignition Temperature:</b>	No data
<b>Decomposition Temperature:</b>	No data
<b>Viscosity:</b>	33.19 CST @25° C), 13.26 CST @ 45° C

**SECTION 10 - STABILITY AND REACTIVITY**

<b>PRODUCT REACTIVITY:</b>	Non-reactive
<b>CHEMICAL STABILITY:</b>	Stable under recommended storage conditions.
<b>HAZARDOUS REACTION/POLYMERIZATION:</b>	Product will not undergo polymerization.
<b>CONDITIONS TO AVOID:</b>	All sources of ignition: heat, sparks, open flame. Store in a cool place, out of direct sunlight.
<b>INCOMPATIBLE MATERIALS:</b>	Oxidizing materials or strong acids.
<b>HAZARDOUS DECOMPOSITION PRODUCTS:</b>	Thermal decomposition may release oxides of carbon and nitrogen as well as sulfur dioxide and sulfuric acid.

**SECTION 11 - TOXICOLOGICAL INFORMATION****ACUTE TOXICITY:**

Oral LD <sub>50</sub> (rat):	2,000 mg/kg
Dermal LD <sub>50</sub> (rat):	Information not available
Inhalation LC <sub>50</sub> (rat):	Information not available
Eye irritation (rabbit):	Moderate irritant
Skin irritation (rabbit):	Moderate irritant
Sensitization (guinea pig)	Information not available

**CARCINOGEN STATUS:**

**NTP:** not listed      **IARC:** not listed      **OSHA:** Not listed

**TERATOGENICITY:** No evidence of reproductive toxicity has been demonstrated.

**MUTAGENICITY:** No evidence of mutagenic effects during in vivo or in vitro studies.

**SECTION 12 - ECOLOGICAL INFORMATION**

**ENVIRONMENTAL SUMMARY:** This pesticide is toxic to freshwater and estuarine/marine fish and aquatic invertebrates. Do not apply directly to water except as specified on this label. For terrestrial uses, do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high-water mark. Drift and runoff may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment wash water or rinsate.

**FATE:** Propiconazole is moderately persistent with a soil half-life of 30-365 days depending on soil type and weather conditions. Propiconazole binds to soil and is immobile in most soil types.

**FISH TOXICITY:** (technical)

Rainbow trout (96-hr LC<sub>50</sub>) – 4.3-5.3  
mg/L Bluegill 96-hour LC<sub>50</sub> - 1.3  
ppm

**AVIAN TOXICITY:** (technical)

Dietary LC<sub>50</sub>, Bobwhite quail - > 2835mg/kg  
Dietary LC<sub>50</sub>, Mallard duck - > 5620mg/kg

**BEE TOXICITY** (technical)- >25ug/be

**SECTION 13 - DISPOSAL CONSIDERATIONS**

Do not contaminate water, food or feed by storage or disposal.

**PESTICIDE DISPOSAL:** Excess pesticide spray, mixture, or rinsate resulting from the use of this product can be disposed of onsite according to label instructions or at an approved waste disposal facility. Improper disposal is a violation of Federal Law.

**CONTAINER DISPOSAL:**

**Nonrefillable Container.** Do not reuse or refill this container. Triple rinse or pressure rinse container (or equivalent) promptly after emptying; then offer for recycling, if available, or reconditioning, if appropriate, or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures approved by state and local authorities.

**Triple rinse containers small enough to shake (capacity < 5 gallons) as follows:** Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank, or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times

**Triple rinse containers too large to shake (capacity > 5 gallons) as follows:** Empty the remaining contents into application equipment or a

mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank, or store rinsate for later use or disposal. Repeat this procedure two more time

**Pressure rinse as follows:** Empty the remaining contents into application equipment or mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank, or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

Refer to the product label for additional and complete Container Handling instructions

#### SECTION 14 - TRANSPORT INFORMATION

##### US DOT (Ground transport)

Containers $\leq$ 119 gallons -	Not regulated
Containers > 119 gallons -	NA1993, Combustible liquid, N.O.S. PG III
<b>DOT HAZARD CLASS:</b>	Combustible liquid
<b>IDENTIFICATION NUMBER:</b>	NA1993
<b>DOT PACKING GROUP:</b>	PG III

#### SECTION 15 - REGULATORY INFORMATION

<b>CERCLA REPORTABLE QUANTITY:</b>	Not applicable
<b>SARA TITLE III</b>	
311/312 HAZARD CATEGORY:	Immediate health (acute),
313 REPORTABLE INGREDIENTS:	None
<b>CALIFORNIA PROP 65: WARNING:</b>	This product contains no chemical known to the state of California to cause cancer.
<b>TSCA:</b>	This product is exempted from TSCA because it is solely for FIFRA regulated use.

**SECTION 16 - OTHER INFORMATION****HMIS HAZARD RATINGS**

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This Safety Data Sheet (SDS) serves different purposes than and DOES NOT REPLACE OR MODIFY THE EPA APPROVED PRODUCT LABELING (attached to and accompanying the product container). This SDS provides important health, safety, and environmental information for employers, employees, emergency responders and others handling large quantities of the product in activities generally other than product use, while the labeling provides that information specifically for product use in the ordinary course. Use, storage and disposal of pesticide products are regulated by the EPA under the authority of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) through the product labeling, and all necessary and appropriate precautionary, use, storage, and disposal information is set forth on that labeling. This data sheet is not a guarantee of safety. Users are responsible for ensuring that they have all current information necessary to safely use the product described by this data sheet for their specific purpose.

It is a violation of federal law to use a pesticide product in any manner not prescribed on the EPA-approved label.