

MATERIAL SAFETY DATA SHEET

SECTION 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

COMPANY ADDRESS:

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PRODUCT NAME: Honor Guard PPZ Turf & Ornamental Fungicide
CHEMICAL NAME: 1-[2-(2,4-dichlorophenyl)-4-propyl-1,3-dioxolan-2-yl]-1H-1,2,4-triazole
CHEMICAL FAMILY: Triazone derivative fungicide
PRODUCT CODE: EPA Reg. No. 66222-41-53883

SECTION 2 – COMPOSITION, INFORMATION OF INGREDIENTS

COMPONENT	PERCENTAGE	CAS NUMBER	OSHA PEL	ACIGH TLV
Propiconazole	14.3	60207-90-1	Not listed	Not listed

SECTION 3 – HAZARDS IDENTIFICATION SUMMARY

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

EMERGENCY OVERVIEW:

- May be harmful if swallowed, inhaled or absorbed through skin.
- Can cause substantial but temporary eye irritation.
- Avoid breathing vapor or spray mist.
- Avoid contact with eyes, skin or clothing.
- Keep out of reach of children.

POTENTIAL HEALTH HAZARDS:

EYE: Substantially irritating to the eyes. Degree of injury will depend on the amount of material that gets into eye and the speed and thoroughness of the first aid treatment.

SKIN: Prolonged or repeated skin contact may cause irritation.

INHALATION: Slightly irritating to respiratory tract.

INGESTATION: May be harmful if swallowed.

SECTION 4 – FIRST AID MEASURES

IF IN EYES: Immediately rinse eyes with a large amount of running water. Hold eye lids apart to rinse the entire surface of the eye and lids. Do not apply any medication except on the advice of a physician.

IF ON SKIN: Wash with plenty of soap and water, including hair and under fingernails.

IF SWALLOWED: DO NOT INDUCE VOMITING. If victim is conscious, give a large quantity of water to drink and get medical attention. Never give anything by mouth to an unconscious person.

IF INHALED: Move victim to fresh air. Apply artificial respiration if necessary.

Note to Physician: No specific antidote, treat symptomatically. Eye contact may require specialized ophthalmologic attention. If a large amount is ingested, lavage stomach carefully to avoid aspiration. Do not induce emesis.

SECTION 5 – FIRE FIGHTING MEASURES

FLASHPOINT (method): 92°C (165°F) (TCC)

FLAMMABLE LIMITS (LFL-UFL): Unknown.

FIRE AND EXPLOSION HAZARD: Can burn in fire, releasing irritating and toxic gases due to thermal decomposition or combustion.

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

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. Foam or dry chemical fire extinguishing systems are preferred to prevent environmental damage from excessive water run off.

FIRE FIGHTING EQUIPMENT: Full fire fighting turn-out gear (Bunker gear).

HAZARDOUS COMBUSTION PRODUCTS: Unknown.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Clean up spills immediately, observing precautions in Section 8 of this document. Isolate hazard area. Keep unnecessary and unprotected personnel from entering.

SMALL SPILL: Absorb small spills or sand, vermiculite or other inert absorbent. Place contaminated material in appropriate container for disposal.

LARGE SPILL: Dike large spills using absorbent or impervious material such as clay or sand. Recover and contain as much free liquid as possible for reuse. Allow absorbed material to solidify, and scrape up for disposal. Pick up wash liquid with additional absorbent and place in a disposable container. After removal, flush contaminated area thoroughly with water. This material should be prevented from contaminating soil or from entering sewage and drainage systems and bodies of water.

SECTION 7 – HANDLING AND STORAGE

KEEP OUT OF REACH OF CHILDREN!

HANDLING: Use only in a well-ventilated area. Do not reuse this container.

STORAGE: Keep away from food, feed and drinking water.

SECTION 8 – EXPOSURE CONTROLS, PERSONAL PROTECTION

EXPOSURE LIMITS (8 HOUR TWA): (Refer to Section 3)

ENGINEERING CONTROLS: Proper ventilation is required when handling or using this product to keep exposure to airborne contaminants below the exposure limit. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

PERSONAL PROTECTIVE EQUIPMENT:

EYE PROTECTION – Chemical goggles or full face shield.

CLOTHING – Long-sleeved shirt and long pants, shoes plus socks, Chemical resistant apron when cleaning equipment, mixing, or loading.

GLOVES – Chemical-resistant gloves, such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, polyvinyl chloride (PVC), viton.

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 the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL DESCRIPTION: Clear amber liquid.

ODOR: Slight solvent odor.

MOLECULAR WEIGHT (technical):

MOLECULAR FORMULA (technical): C₁₅H₁₇C₁₂N₃O₂

DENSITY: 1.09 g/ml (9.1 lb/gal)

pH: 5.5 – 6.0

% VOLATILE: Unknown.

WATER SOLUBILITY: Dispersible.

SECTION 10 – STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable, however may decompose if heated.

CONDITIONS TO AVOID: Avoid temperatures above 150°F and below 20°F.

INCOMPATIBILITY WITH OTHER MATERIALS: Alkaline and acidic conditions and materials, Oxidizing materials.

HAZARDOUS DECOMPOSITION PRODUCTS: Unknown.

HAZARDOUS POLYMERIZATION: Product will not undergo polymerization.

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

Oral LD ₅₀ (rat)	-	> 3,000 mg/Kg
Dermal LD ₅₀ (rat)	-	> 2,000 mg/Kg
Inhalation LC ₅₀ (rat)	-	> 2.0 Mg/L/4 hour
Eye Irritation (rabbit)	-	Moderately
Skin Irritation (rabbit)	-	Slight
Sensitization (guinea pig)	-	Non-sensitizer

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: None known.

CARCINOGEN STATUS:

OSHA	-	Not listed
NTP	-	Not listed
IARC	-	Not listed

MUTAGENIC DATA: No evidence of effects during in *vivo* or in *vitro* studies.

SECTION 12 – ECOLOGICAL INFORMATION

ENVIRONMENTAL SUMMARY: This pesticide is toxic to fish. DO NOT apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. DO NOT contaminate water when disposing of equipment wash water.

FISH TOXICITY: (Technical)

96 hour LC ₅₀ , Rainbow trout	-	5.2 ug/L
96 hour LC ₅₀ , Bluegill	-	> 100 ppm

AVIAN TOXICITY: (Technical)

Oral LD ₅₀ , Bobwhite quail	-	> 2,500 mg/Kg
Oral LD ₅₀ , Mallard duck	-	> 2,500 mg/Kg

BEE TOXICITY: Non-toxic.

SECTION 13 – DISPOSAL CONSIDERATIONS

WASTE: Pesticide wastes are toxic/acutely hazardous. Dispose of in accordance with applicable Federal, state and local laws and regulations.

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

SECTION 14 – TRANSPORT INFORMATION

DOT SHIPPING DESCRIPTION: Agricultural Fungicide, Liquid, N.O.I.B.N.

DOT HAZARD CLASS: N/A

UN NUMBER: N/A

DOT PACKING GROUP: N/A

DOT PRIMARY/SECONDARY LABEL: N/A

DOT PRIMARY/SECONDARY PLACARD: N/A

DOT EMERGENCY RESPONSE GUIDE#: N/A

SECTION 15 – REGULATORY INFORMATION

FIFRA: All pesticides are governed under the Federal Insecticide, Fungicide, and Rodenticide Act. The regulatory information presented below is pertinent only when this product is handled outside of the normal use and application as a pesticide.

OSHA HAZARD COMMUNICATION STANDARD STATUS: Regulated

CERCLA REPORTABLE QUANTITY: None

SARA TITLE III STATUS:

302 Extremely Hazardous Substance	-	No
311/312 Hazard Categories	-	Acute Health
313 Toxic Chemicals	-	Propiconazole (CAS# 60207-90-1)

CALIFORNIA PROP 65 STATUS: Not Listed

SECTION 16 – OTHER INFORMATION

DISCLAIMER: The information presented herein is based on available data from reliable sources and is correct to the best of Control Solutions, Inc.'s knowledge. Control Solutions, Inc. makes no warranty, express or implied, regarding the accuracy of the data or the results obtained from 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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