



# MATERIAL SAFETY DATA SHEET #3033

Page 1 of 4

15885 Sprague Road, Strongsville, OH 44136  
EMERGENCY PHONE: LESCO: (800) 321-5325  
CHEMTREC: (800) 424-9300

DATE ISSUED: 4/24/02  
SUPERSEDES: New

## I. PRODUCT IDENTIFICATION

PRODUCT NAME: LESCO® Spectator Turf and Ornamental Fungicide  
Chemical Family: Triazole  
Chemical Name/Synonyms: Propiconazole EC

## II. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME	%(by/wt.)	CAS #	PEL/TLV
Propiconazole: 1-((2,4-dichlorophenyl)-4-propyl-1,3-dioxolan-2-yl)-methyl)-1H,2,4-triazole	41.8	60207-90-1	Not Established
Propylene Glycol	2	57-55-6	50 ppm total, 10 mg/M <sup>3</sup> aerosol only AIHA WEEL
Aromatic 150 (Naphthalene)	43.5	64742-94-5	10 ppm ACGIH/OSHA** 15 ppm STEL

\*\*ACGIH classification is A4, skin. A 'skin' notation following the exposure guideline refers to the potential for dermal absorption of the material. It is intended to alert the reader that inhalation may not be the only route of exposure and that measures to minimize dermal exposures should be considered.

## III. HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW:** Primary Route(s) of Entry: Eyes, Skin, Inhalation, Ingestion

**POTENTIAL HEALTH EFFECTS:** Hazardous Chemical. Clear yellow liquid with an aromatic odor. May cause eye irritation and/or corneal injury. May cause skin irritation. Toxic to aquatic organisms.  
**EYE:** May cause slight eye irritation and/or slight corneal injury. Vapors may irritate the eyes. For the solvent Aromatic 150, cataracts and other eye effects have been reported in humans repeatedly exposed to naphthalene vapor or dust.

**SKIN:** Prolonged or repeated exposure may cause skin irritation. A single prolonged exposure is not likely to result in the material being absorbed through the skin in harmful amounts. The dermal LD<sub>50</sub> has not been determined. Propiconazole did not cause allergic skin reactions when tested in guinea pigs.

**INHALATION:** Excessive exposure may cause irritation to upper respiratory tract (nose and throat). Signs and symptoms of excessive exposure may be central nervous system effects.

**INGESTION:** Single dose oral toxicity is low. Small amounts swallowed incidental to normal handling operations are not likely to cause injury; however, swallowing larger amounts may cause injury. If aspirated (liquid enters the lung), may cause lung damage or even death due to chemical pneumonia. Single dose oral LD<sub>50</sub> has not been determined.

**MEDICAL CONDITIONS AGGRAVATED:** Excessive exposure may cause respiratory irritation and central nervous system depression.

**POTENTIAL ENVIRONMENTAL HAZARDS:** Toxic to aquatic organisms.

## IV. FIRST AID MEASURES

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

**SKIN:** Remove contaminated clothing. Rinse skin immediately with plenty of water for 15 – 20 minutes. Call a poison control center or doctor for treatment advice.

**INHALATION:** Remove to fresh air. If 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 treatment advice.

**INGESTION:** Call a poison control center or doctor immediately for treatment advice. Do not give any liquid to person. Do not induce vomiting unless told to by a poison control center or doctor. Do not give anything by mouth to an unconscious person. Single dose toxicity is low; however, swallowing larger amounts may cause injury.

**NOTES TO MEDICAL DOCTOR:** There is no specific antidote for this product. Induce emesis or lavage stomach, taking care to avoid aspiration of stomach contents into lungs. Give a saline laxative and supportive therapy. This product may pose an aspiration pneumonia hazards. Contains petroleum distillate.

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**V. FIRE FIGHTING MEASURES**

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**Flash Point (Method Used):** 151.7F/66.5C

**Lower Explosion Limits:** Not Determined

**NFPA/HMIS Rating:** Health: 1

**EXTINGUISHING MEDIA:**

Foam

Water Fog

**Auto Ignition Temperature:** Not Applicable

**Upper Explosion Limits:** Not Determined

**Fire:** 2                      **Reactivity:** 1

Alcohol Foam

Other

Dry Chemical

CO<sub>2</sub>

**EXPLOSION HAZARDS:** During a fire, smoke may contain the original material in addition to unidentified toxic and/or irritating compounds. Keep containers cool by spraying with water. Contain runoff to prevent entry into water or drainage systems.

**FIRE FIGHTING PROCEDURES:** Use positive-pressure, self-contained breathing apparatus and full protective equipment.

**HAZARDOUS COMBUSTION PRODUCTS:** Not Determined

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**VI. ACCIDENTAL RELEASE MEASURES**

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**RELEASE NOTES:** If material is spilled, absorb small spills with non-reactive material such as sand, sawdust, Zorball, dirt or other non-combustible absorbent material and place into containers for disposal. Wash exposed body areas thoroughly after handling. Barricade the area of large spills and report them to ChemTrec at 1-800-424-9300.

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**VII. HANDLING AND STORAGE**

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**GENERAL PROCEDURES: Handling:** Do not swallow. Avoid contact with eyes, skin, and clothing. Avoid breathing vapors and spray mist. Handle concentrate in ventilated area. Wash thoroughly with soap and water after handling and before eating, chewing gum, using tobacco, using toilet or smoking. **Storage:** Product should be stored in compliance with local regulations. Store in a cool, dry, well-ventilated area in the original container. Protect from excessive heat and cold. Keep away from food, feedstuffs, and water supplies.

**OTHER PRECAUTIONS:** Keep out of reach of children.

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**VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION**

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**ENGINEERING CONTROLS:** Provide general and/or local exhaust ventilation to control airborne levels below the exposure guidelines.

**PERSONAL PROTECTION EQUIPMENT:**

**EYES AND FACE:** Use chemical goggles. If vapor exposure causes eye discomfort, use a NIOSH approved full-face respirator.

**RESPIRATORY:** Atmospheric levels should be maintained below the exposure guidelines. When respiratory protection is required for certain operations, use a NIOSH approved air-purifying respirator.

**GLOVES:** Use gloves impervious to this material when prolonged or frequently repeated contact could occur.

**PROTECTIVE CLOTHING:** Applicators and all other handlers refer to product label for personal protective clothing and equipment

**WORK HYGIENIC PRACTICES:** Wash thoroughly with soap and water after handling and before eating, chewing gum, using tobacco, using toilet or smoking.

**IX. PHYSICAL AND CHEMICAL PROPERTIES**

<b>BOILING POINT:</b> Not Determined (189 – 195C 1.0 – 1.4 mbar) for the active ingredient	<b>SPECIFIC GRAVITY:</b> Not Determined
<b>MELTING POINT:</b> Not Determined	<b>EVAPORATION RATE:</b> Not Determined
<b>DENSITY (air = 1):</b> 1.0441 g/mL @ 20C	<b>VAPOR PRESSURE:</b> Not Determined (1.25 x 10 <sup>-4</sup> Pa @25C for the active ingredient)
<b>ODOR:</b> Aromatic	<b>SOLUBILITY IN WATER:</b> Not Determined (Insoluble for the active ingredient)
<b>APPEARANCE:</b> Clear yellow liquid	<b>VISCOSITY:</b> 10.9 mPa-s @ 25C; 5.74 mPa-s @45C
<b>pH:</b> 5.36 @ 23.1C	<b>DENSITY:</b> 1.0441 g/mL @ 20C

**X. STABILITY AND REACTIVITY**

**CONDITIONS TO AVOID:** Avoid high temperatures (at or near flash point), open flame, sparks and direct sunlight

**STABILITY:** Stable

**POLYMERIZATION:** Will not occur

**INCOMPATIBLE MATERIALS:** Strong bases, acids, or oxidizing materials

**HAZARDOUS DECOMPOSITION PRODUCTS:** Not Determined

**XI. TOXICOLOGICAL INFORMATION**

**EYE EFFECTS:** Slight irritant/slight corneal injury

**SKIN EFFECTS:** None

**DERMAL LD<sub>50</sub>:** Not Determined. For the Active Ingredient: Rats: >4000 mg/kg to >24,471 mg/kg; Rabbits: >6000 mg/kg

**ORAL LD<sub>50</sub>:** Not Determined. For the Active Ingredient: Rats: 1411 – 1517 mg/kg; Mice: 1490 mg/kg

**INHALATION LC<sub>50</sub>:** Not Determined. For the Active Ingredient: Rats: 1.3 to >5.8 mg/L

**SENSITIZATION:** None

**ACUTE EFFECTS FROM OVEREXPOSURE:** Ingestion of large amount may cause injury. If aspirated (liquid enters the lung), may cause lung damage or even death due to chemical pneumonia.

**CHRONIC EFFECTS FROM OVEREXPOSURE:**

**CARCINOGENICITY:** Aromatic 150 contains naphthalene, which has caused cancer in some laboratory animals. An increase in lung tumors was observed in female, but not male, mice exposed to naphthalene by inhalation for two years. In humans, there is a limited evidence of cancer in workers involved in naphthalene production. Limited oral studies in rats were negative.

**Teratology:** Birth defects are unlikely. Exposures having no effects on the mother should have no effect on the fetus.

<b>IARC:</b> Not Listed	<b>OSHA:</b> Not Listed
<b>NTP:</b> Not Listed	<b>OTHER:</b> Not Listed

**XII. ECOLOGICAL INFORMATION**

**ENVIRONMENTAL DATA:**

**Movement & Partitioning:**

Based largely or completely on information for Aromatic 150: Bioconcentration potential is high (BCF is >3000 or Log Pow is between 5 and 7).

Based largely or completely on information for Propiconazole: Bioconcentration potential is moderate (BCF is between 100 and 3000 or Log Pow is between 3 and 5). Expected to be relatively immobile in soil (Koc is >5000 mg/kg).

**Degradation & Persistence:**

Based largely or completely on information for Aromatic 150: Based on stringent OECD test guidelines, this material cannot be considered as readily biodegradable; however, these results do not necessarily mean that the material is not biodegradable under environmental conditions.

Based largely or completely on information for Propiconazole: Degradation is expected in the soil environment within months to years.



# MATERIAL SAFETY DATA SHEET #3033

Page 4 of 4

## ECOTOXICOLOGICAL INFORMATION:

Based largely or completely on information for Propiconazole: Material is highly toxic to aquatic organisms on an acute basis (LC<sub>50</sub>/EC<sub>50</sub> is between 0.1 and 1 mg/L in most sensitive species).  
Based largely or completely on information for Aromatic 150: Material is slightly toxic to aquatic organisms on an acute basis (LC<sub>50</sub>/EC<sub>50</sub> is between 10 and 100 mg/L in most sensitive species).

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## XIII. DISPOSAL CONSIDERATIONS

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**DISPOSAL METHODS:** Do not contaminate water, food, or feed by storage or disposal. Excess wastes resulting from the use of this product may be disposed of on site according to label directions or at an approved waste disposal facility. Follow all local, state, and federal requirements for disposal.

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## XIV. TRANSPORTATION INFORMATION:

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**DOT Transportation:** Not Regulated  
**Proper Shipping Name:** Not Applicable  
**Hazard Class:** Not Applicable  
**U.S. Surface Freight Class:** Not Applicable  
**Reportable Quantity (RQ):** Not Applicable

**ID NO.:** Not Applicable  
**Marine Pollution #1:** Not Applicable  
**HM 181 Shipping Name:** Not Regulated

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## XV. REGULATORY INFORMATION – UNITED STATES

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### SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT):

Y Immediate (Acute Health)

Y Delayed (Chronic Health)

N Fire

N Sudden Release of Pressure

N Reactivity

**SEC 302:** Not Applicable

**SEC 304:** Not Applicable

**SEC 313:** Propiconazole (60207-90-1) 41.8%

**CERCLA RQ:** Not Applicable

**CAA RQ:** Not Applicable

**EPA Registration No.:** 62719-346-10404

Preparation and distribution of this Material Safety Data Sheet is done for LESCO, Inc., pursuant to the OSHA Hazard Communication Standard (29 CFR 1910.1200).

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For further information, contact: LESCO, Inc. • 15885 Sprague Road • Strongsville, Ohio 44136 or (800) 321-5325.