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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 ³ 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 LD₅₀ 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 LD₅₀ 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.

V. FIRE FIGHTING MEASURES

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 Dry Chemical
 Other CO₂

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

VI. ACCIDENTAL RELEASE MEASURES

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.

VII. HANDLING AND STORAGE

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.

VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

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

BOILING POINT: Not Determined (189 – 195C 1.0 – 1.4 mbar) for the active ingredient
MELTING POINT: Not Determined
DENSITY (air = 1): 1.0441 g/mL @ 20C

ODOR: Aromatic

APPEARANCE: Clear yellow liquid

pH: 5.36 @ 23.1C

SPECIFIC GRAVITY: Not Determined

EVAPORATION RATE: Not Determined
VAPOR PRESSURE: Not Determined (1.25 x 10⁻⁴ Pa @25C for the active ingredient)
SOLUBILITY IN WATER: Not Determined (Insoluble for the active ingredient)
VISCOSITY: 10.9 mPa-s @ 25C; 5.74 mPa-s @45C
DENSITY: 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 LD₅₀: Not Determined. For the Active Ingredient: Rats: >4000 mg/kg to >24,471 mg/kg; Rabbits: >6000 mg/kg
ORAL LD₅₀: Not Determined. For the Active Ingredient: Rats: 1411 – 1517 mg/kg; Mice: 1490 mg/kg
INHALATION LC₅₀: 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 rates were negative.
Teratology: Birth defects are unlikely. Exposures having no effects on the mother should have no effect on the fetus.

IARC: Not Listed
NTP: Not Listed

OSHA: Not Listed
OTHER: 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.

ECOTOXICOLOGICAL INFORMATION:

Based largely or completely on information for Propiconazole: Material is highly toxic to aquatic organisms on an acute basis (LC₅₀/EC₅₀ 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 (LC₅₀/EC₅₀ is between 10 and 100 mg/L in most sensitive species).

XIII. DISPOSAL CONSIDERATIONS

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.

XIV. TRANSPORTATION INFORMATION:

DOT Transportation: Not Regulated	ID NO.: Not Applicable
Proper Shipping Name: Not Applicable	Marine Pollution #1: Not Applicable
Hazard Class: Not Applicable	HM 181 Shipping Name: Not Regulated
U.S. Surface Freight Class: Not Applicable	
Reportable Quantity (RQ): Not Applicable	

XV. REGULATORY INFORMATION – UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT):

<u>Y</u> Immediate (Acute Health)	SEC 302: Not Applicable
<u>Y</u> Delayed (Chronic Health)	SEC 304: Not Applicable
<u>N</u> Fire	SEC 313: Propiconazole (60207-90-1) 41.8%
<u>N</u> Sudden Release of Pressure	CERCLA RQ: Not Applicable
<u>N</u> Reactivity	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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