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**CHEMTREC:** (800) 424-9300

**DATE ISSUED:** 5/28/08  
**SUPERSEDES:** NEW

### I. PRODUCT IDENTIFICATION

**PRODUCT NAME:** LESCO Eagle® 0.39% Granular Turf Fungicide

**Chemical Family:** Mixture

**Chemical Name/Synonyms:**

Myclobutanil: alpha-butyl-alpha-(4-chlorophenyl)-1H-1,2,4-triazole-1-propanenitrile

### II. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME	%(by/wt.)	CAS #	PEL/TLV
Myclobutanil: alpha-butyl-alpha-(4-chlorophenyl)-1H-1,2,4-triazole-1-propanenitrile	0.39	88671-89-0	1 mg/M <sup>3</sup> TWA 3 m/M <sup>3</sup> STEL

Substances not 'Hazardous' per OSHA Hazard Communication Standard (29 CFR 1910.1200) may be listed. Where proprietary ingredient shows, the identify may be made available as provided in this standard

### III. HAZARDS IDENTIFICATION

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

**POTENTIAL HEALTH EFFECTS:** May cause eye irritation with corneal injury. May cause skin irritation.

**EYE:** May cause moderate eye irritation with corneal injury. Dust may irritate eyes.

**SKIN:** May cause slight skin irritation with local redness.

**INHALATION:** Dust may cause irritation of the upper respiratory tract (nose & throat) and lungs.

**INGESTION:** Low toxicity if swallowed. Small amounts swallowed incidental to normal handling operations are not likely to cause injury; however swallowing larger amounts may cause injury.

**MEDICAL CONDITIONS AGGRAVATED:** None Known

**POTENTIAL ENVIRONMENTAL HAZARDS:** This pesticide is toxic to fish. Drift and run-off from treated areas may be hazardous to aquatic organisms in neighboring areas. 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 washwaters or disposing of wastes.

### IV. FIRST AID MEASURES

**EYES:** Immediately flush with water; remove contact lenses, if present, after the first 5 minutes, then continue flushing eye for at least 15 minutes. Obtain medical attention without delay, preferably an ophthalmologist.

**SKIN:** 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.

**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 immediately for treatment advice. 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.

**NOTES TO MEDICAL DOCTOR:** No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

### V. FIRE FIGHTING MEASURES

**Flash Point (Method Used):** NA

**Lower Explosion Limits:** NA

**Auto Ignition Temperature:** NA

**Upper Explosion Limits:** NA

**NFPA/HMIS Rating:** Health: 2

**Fire:** 1

**Reactivity:** 0

**EXTINGUISHING MEDIA:**  Foam  
 Dry Chemical

Alcohol Foam  
 Water Spray

CO<sub>2</sub>  
 Other

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Pesticide particulates can become airborne. Combustion generates toxic fumes of the following: hydrogen chloride. Dusts at sufficient concentrations can form explosive mixtures with air. The minimum ignition temperature of dust cloud is 945F/507C and of dust layer is 730F/388C.

**FIRE FIGHTING PROCEDURES:** Wear self-contained breathing apparatus (pressure demand NIOSH approved or equivalent) and full protective gear. Contain run-off. Remain upwind. Avoid breathing smoke. Use water spray to cool containers exposed to fire.

**HAZARDOUS COMBUSTION PRODUCTS:** During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating. Combustion products may include and are not limited to: nitrogen oxides, hydrogen chloride, carbon monoxide, and carbon dioxide.

### VI. ACCIDENTAL RELEASE MEASURES

**RELEASE NOTES:** If material is spilled, sweep up small spills and place in a suitable container for disposal. Report large spills to Dow AgroSciences at 800-992-5994. Keep dust to a minimum. Keep out of sewers and open bodies of water.

Wear appropriate protective equipment when handling a spill of this material. If exposed to material during clean-up operations, See Section IV for actions to follow. Remove all contaminated clothing promptly. Wash all exposed skin areas with soap and water immediately after exposure. Thoroughly launder clothing before reuse. Do not take clothing home to be laundered.

### VII. HANDLING AND STORAGE

**GENERAL PROCEDURES:**

Avoid eye contact. Wash thoroughly with soap and water after handling. Do not swallow. Do not store this material near food, feed, or drinking water. Store in a cool, dry, well-ventilated area out of direct sunlight. Store with the container tightly closed when not in use. Do not handle material near food, feed or drinking water.

**OTHER PRECAUTIONS:** Keep out of reach of children. Completely empty bag into application equipment. Dispose of empty bag in a sanitary landfill or by incineration as allowed by state and local authorities. Avoid inhalation of smoke if incinerated.

### VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

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

**PERSONAL PROTECTION EQUIPMENT:**

**EYES AND FACE:** Chemical goggles

**RESPIRATORY:** For most conditions, no respiratory protection should be needed; however, if discomfort is experienced, use a NIOSH approved air-purifying respirator.

**GLOVES:** Chemical resistant gloves

**PROTECTIVE CLOTHING:** Long-sleeved shirt and long pants, shoes plus socks.

**WORK HYGIENIC PRACTICES:** Users should wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.

**COMMENTS:** Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

### IX. PHYSICAL AND CHEMICAL PROPERTIES

**BOILING POINT:** NA

**MELTING POINT:** NA

**VAPOR DENSITY (air = 1):** NA

**ODOR:** Odorless

**APPEARANCE:** White crystals

**pH:** NA

**SPECIFIC GRAVITY (Water = 1):** 1.11 (technical)

**EVAPORATION RATE:** NA

**VAPOR PRESSURE:** NA

**SOLUBILITY IN WATER:** Dispersible

**PERCENT VOLATILE:** 0%

**BULK DENSITY (lbs./cu ft):** NE

### X. STABILITY AND REACTIVITY

**CONDITIONS TO AVOID:** Keep away from fire and sparks.

**STABILITY:** Stable

**POLYMERIZATION:** Not known to occur

**INCOMPATIBLE MATERIALS:** Avoid contact with strong oxidizing agents

**HAZARDOUS DECOMPOSITION PRODUCTS:** Carbon monoxide, carbon dioxide, hydrogen chloride, nitrogen oxides

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**XI. TOXICOLOGICAL INFORMATION**

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**EYE EFFECTS:** May cause eye irritation

**SKIN EFFECTS:** May cause skin irritation

**DERMAL LD<sub>50</sub>:** (Rabbit): >5000 mg/kg

**ORAL LD<sub>50</sub>:** (Rat): >1000 mg/kg

**INHALATION LC<sub>50</sub>:** (Rat): >5.1 mg/L for 4 hrs

**SENSITIZATION:** No Data

**ACUTE EFFECTS FROM OVEREXPOSURE:**

May cause eye irritation with corneal injury. May cause skin irritation.

**CHRONIC EFFECTS FROM OVEREXPOSURE:**

Excessive exposure may cause irritation to upper respiratory tract (nose & throat).

**CARCINOGENICITY:** Myclobutanil did not cause cancer in laboratory animals.

**TERATOLOGY (Birth Defects):** Myclobutanil did not cause birth defects in laboratory animals. Has been toxic to the fetus in laboratory animals at doses non-toxic to the mother.

**REPRODUCTIVE EFFECTS:** For Myclobutanil, in laboratory animal studies, effects on reproduction have been seen only at doses that produced significant toxicity to the parent animals.

**SYSTEMIC (Other Target Organ) EFFECTS:** For Myclobutanil, in animals, effects have been reports on the following organs: testes, adrenal gland, kidney and thyroid.

**IARC:** Not Listed

**OSHA:** Not Listed

**NTP:** Not Listed

**OTHER:** California Proposition 65: **WARNING:** This product contains a chemical known to the State of California to cause birth defects or other reproductive harm (Myclobutanil – CAS # 88671-89-0)

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**XII. ECOLOGICAL INFORMATION**

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**ENVIRONMENTAL DATA:** This pesticide is toxic to fish. Drift and run-off from treated areas may be hazardous to aquatic organisms in neighboring areas. 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 washwaters or disposing of wastes.

**ECOTOXICOLOGICAL INFORMATION:** Based largely or completely on information for Myclobutanil:

Material is highly toxic to aquatic organisms on an acute basis (LC<sub>50</sub> or EC<sub>50</sub> is between 0.1 and 1 mg/L in the most sensitive species tested).

Acute LC<sub>50</sub> in bluegill (*Lepomis macrochirus*) is 2.4 - 4.1 mg/L.

Acute LC<sub>50</sub> in rainbow trout (*Oncorhynchus mykiss*) is 4.2 mg/L.

Acute LC<sub>50</sub> in water flea (*Daphnia magna*) is 11 mg/L.

Maximum acceptable toxicant concentration (MATC) in fish early life-stage study is between 0.98 - 2.2 mg/L.

Growth inhibition EC<sub>50</sub> in green alga (*Selenastrum capricornutum*) is 1.0 mg/L.

Growth inhibition EC<sub>50</sub> in alga (*Scenedesmus sp.*) is 2.655 mg/L.

Acute immobilization EC<sub>50</sub> in water flea (*Daphnia magna*) is 17 mg/L.

Acute LC<sub>50</sub> in sheepshead minnow (*Cyprinodon variegatus*) is 4.7 mg/L.

Acute LC<sub>50</sub> in saltwater mysid (*Mysidopsis bahia*) is 0.24 mg/L.

Acute EC<sub>50</sub> in shell deposition inhibition in Eastern oyster (*Crassostrea virginica*) is 0.72 mg/L.

Material is practically non-toxic to birds on a dietary basis (LC<sub>50</sub> is >5000 ppm).

Dietary LC<sub>50</sub> in bobwhite (*Colinus virginianus*) is >5000 ppm.

Dietary LC<sub>50</sub> in mallard (*Anas platyrhynchos*) is >5000 ppm.

Material is slightly toxic to birds on an acute basis (LD<sub>50</sub> is between 501 and 2000 mg/kg).

Acute oral LD<sub>50</sub> in bobwhite (*Colinus virginianus*) is 510 mg/kg.

Acute contact LD<sub>50</sub> in honeybee (*Apis mellifera*) is >100 µg/bee.

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**XIII. DISPOSAL CONSIDERATIONS**

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**DISPOSAL METHODS:** Do not contaminate water, food or feed by storage and disposal.

**Product:** 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.

**Container:** Do not reuse empty containers. Completely empty bag into application equipment. Dispose of emptied bag(s) in a sanitary landfill or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

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**XIV. TRANSPORTATION INFORMATION:**

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**DOT Transportation:**

Not Regulated

**Proper Shipping Name:**

NA

**Hazard Class:**

NA

**U.S. Surface Freight Class:**

No Data

**Marine Pollutant #1:**

NA

**HM 181 Shipping Name:**

NA

**ID NO.:**

NA

**Reportable Quantity (RQ):**

NA

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**XV. REGULATORY INFORMATION – UNITED STATES**

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**SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT):****SEC 311/312:****Y Immediate (Acute Health)****Y Delayed (Chronic Health)****N Fire****N Sudden Release of Pressure****N Reactivity****SEC 302 (Extremely Hazardous Substance): NA****SEC 304 (Emergency Release Notification): NA****SEC 313 (Toxic Chemicals): Myclobutanil (CAS #88671-89-0, 0.39%)****CERCLA RQ:** NA**CAA RQ:** NA**EPA Registration No.:** 62719-461-10404

NOTE: NA=Not Applicable; ND=Not Determined; NE=Not Established

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