



Revision Date: 1/08/2016

**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY**Product Name: **Lebanon Eagle 0.62G Specialty Fungicide**

EPA No: 62719-462-961

Recommended use

This product is a granular fungicide for landscape use.

**Supplier/Manufacturer**

Lebanon Seaboard Corporation

1600 East Cumberland Street

Lebanon PA 17042

Tel: (800) 233-0628 (717-273-1685)

Supplier Email: customerservice@lebsea.comEmergency telephone number

800-233-0628

Chemtrec 1-800-424-9300

Prosar 888-208-1368

**2. HAZARDS IDENTIFICATION**

OSHA Signal Word: Warning

EPA Signal Word: Caution

**Hazard Statements and Hazard Categories:**

H361: Suspected of damaging fertility or unborn child. (category 2)

H410: Toxic to aquatic life.

May irritate respiratory tract if inhaled over extended time.

May irritate the digestive tract if ingested.

Keep out of reach of children.



## Precautionary Statements for handling:

P201: Obtain special instructions before use.

P202: Do not handle until all safety precautions have been read and understood.

P273: Avoid release to the environment.

P281: Use appropriate personal protective equipment as required to avoid breathing dust.

P308: If exposed or concerned, seek medical advice.

P391: Collect spillage.

P405: Store locked up.

Precautionary Statements for disposal - Dispose in accordance with all federal, state and local regulations.

**Hazards not otherwise classified (HNOC):** None

Unknown acute toxicity

&lt;1% of the mixture consists of ingredients of unknown toxicity

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical Name	CAS No.	Weight %
Myclobutanil ( $\alpha$ -butyl- $\alpha$ -(4-chlorophenyl)-1-H-1,2,4-triazole-propanenitrile)	88671-89-0	0.62%
Dipropylene glycol	25265-71-8	0.9%
Non hazardous inert ingredients and fillers	Various	Balance

**4. FIRST AID MEASURES**

Eye Contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Skin Contact	Wash with soap and water. If injury occurs, or if discomfort or irritation persists contact a physician.
Inhalation	If inhaled and discomfort occurs, move to fresh air, and keep person at rest in a position comfortable for breathing. If difficulty in breathing occurs and/or persists, administer oxygen and get medical attention. If medical advice is needed, have product container or label on hand.
Ingestion	Rinse mouth. Drink Plenty of water. If discomfort occurs, seek medical attention. Do not induce vomiting of an unconscious person.

Self-protection of the first aider: Use any appropriate personal protective equipment as required to avoid breathing dust, and to avoid eye and skin contact.

Most important symptoms and effects, both acute and delayed:

Symptoms: Dust irritation with nasal discomfort, or skin irritation possible. Workers over-exposed to the fungicide myclobutanil have reported symptoms such as skin rash, allergic dermatitis, itchiness, nausea, heachache, diarrhea, abdominal pain, vomiting, nosebleed, and eye irritation.

Indication of any immediate medical attention and special treatment needed: Treat Symptoms.

**5. FIRE FIGHTING MEASURES**

**Suitable extinguishing media**

Use extinguishing media suitable to local circumstances and the surrounding environment. Options in this case include water, CO<sub>2</sub>, ABC Dry Chemical extinguisher, or foam. Avoid stirring up dust with water stream.

**Specific hazards arising from the chemical**

Thermal decomposition can lead to release of irritating and toxic gases and vapors. In the event of fire, do not breathe fumes.

**Explosion data**

Sensitivity to mechanical impact: None  
 Sensitivity to static discharge: None

Note: Excessive amounts of any burnable dusts can produce explosive mixtures if allowed to disperse in the air in confined areas where ignition sources occur. Prevent excessive dust dispersal in areas of use, storage, or production.

**Protective equipment and precautions for firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and standard protective gear.

**6. ACCIDENTAL RELEASE MEASURES**

**Personal precautions, protective equipment, and emergency procedures**

Personal Precautions	Use reasonable personal protective equipment as required to prevent contact with eyes or skin and to avoid breathing dust. Remove ignition sources prior to clean-up.
Environmental precautions	Prevent entry into waterways, sewers, basements or confined areas. Do not flush into surface water or sanitary sewer system. See Section 12 for additional ecological information.
Methods for containment	Prevent further leakage or spillage, if safe to do so.

Methods for clean-up Use reasonable personal protective equipment as required. Cover powder spill with plastic sheet or tarp to minimize spreading and keep powder dry. Take up mechanically, placing in appropriate containers for disposal. Avoid creating dust. Clean contaminated surface thoroughly. Soak up excess with inert absorbent material.

**7. HANDLING AND STORAGE**

**Safe Handling** Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Ensure adequate ventilation, especially in confined areas. Use personal protective equipment as required to avoid breathing dust. Wash hands thoroughly after handling.

**Storage Conditions** Store locked up. Keep containers tightly closed in a cool, well-ventilated place. Keep away from food, drink and animal feed. Keep out of the reach of children.

**Incompatible materials** Avoid strong acids or alkali, or other reactive substances.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	REL
Myclobutanil			
Nuisance Dusts	10 mg/m <sup>3</sup> (TWA)	15 mg/m <sup>3</sup> (TWA total) 50 mppcf (TWA total) 5 mppcf (TWA respirable)	10 mg/m <sup>3</sup> TWA (total dust); 5 mg/m <sup>3</sup> TWA (respirable)

\*REL refers to "Recommended Exposure Limit".

Other Information: Obtain special instructions before use.

Engineering controls: Use with adequate ventilation to prevent dust buildup in air.

**Individual protection measures**

Use appropriate personal protective equipment as required to avoid breathing dust.

**Eye protection** Safety glasses, or goggles if eye contact is likely

**Skin and Body Protection** Gloves and coveralls recommended.

**Respiratory Protection** Dust mask recommended for dusty or misty conditions. If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Respiratory protection must be provided in accordance with current local regulations.

**General Hygiene** When using product, do not eat, drink or smoke. Wash hands thoroughly after handling. Wash contaminated clothing before reuse.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**Physical state** Solid

**Appearance** Granules

**Color** Mixed, various

**Odor** Slight

**Odor Threshold** No information available

**pH** Not applicable

**Melting point/freezing point** Not applicable

Boiling point / boiling range	Not applicable
Flash point	No information available
Evaporation rate	Not applicable
Flammability (solid, gas)	No information available
Flammability Limits in Air	
Upper flammability limit:	No information available
Lower flammability limit:	No information available
Vapor pressure	Not applicable
Vapor density	Not applicable
Specific Gravity	Not applicable
Water solubility	Mostly Insoluble in water, although some ingredients may dissolve.
Solubility in other solvents	No information available
Partition coefficient	No information available
Autoignition temperature	No information available
Decomposition temperature	No information available
Oxidizing properties	Not an oxidizer

**10. STABILITY AND REACTIVITY**

**Reactivity**

Not reactive.

**Chemical stability**

Stable.

**Possibility of Hazardous Reactions**

May release heat and fumes when mixed in solution with incompatible reactive materials.

**Hazardous polymerization**

Will not occur.

**Conditions to avoid**

High heat, sparks and open flames, as some ingredients may be burnable.

**Incompatible materials**

Strong acids or alkali, or other reactive substances.

**Hazardous Decomposition Products**

May emit toxic fumes under fire conditions, such as Nitrogen oxides (NOx), Ammonia, Oxides of sulfur, Hydrogen chloride and Carbon monoxide.

**11. TOXICOLOGICAL INFORMATION**

Although it has a low acute toxicity, myclobutanil has been found to adversely affect the reproductive abilities of test animals.

Routes of exposure: Ingestion, eyes (contact), skin (contact), dust inhalation

Symptoms	May irritate the digestive tract if ingested in quantity, causing nausea, vomiting and diarrhea. Workers over-exposed to the fungicide myclobutanil have reported symptoms such as skin rash, allergic dermatitis, itchiness, nausea, headache, diarrhea, abdominal pain, vomiting, nosebleed, and eye irritation.
Sensitization	No information available.
Germ cell mutagenicity	No information available
Carcinogenicity	Not carcinogenic

Reproductive toxicity	In a two-generation study on rats over the effects of myclobutanil on reproduction, researchers found a decrease in pup weight gain, increased incidence of stillborns, and atrophy of the testes and prostate. Myclobutanil is listed as a developmental toxin in the Toxics Release Inventory.
STOT - single exposure	No information available
STOT - repeated exposure	No information available
Chronic toxicity	Chronic toxicity tests with myclobutanil on rats found decreased body weight and changes to brain and spleen weight, in addition to reproductive effects. (See reproductive toxicity, above.)
Target Organ Effects	Adrenal gland, kidney, liver, testes, and thyroid. Chronic toxicity tests with myclobutanil on rats found decreased body weight and changes to brain and spleen weight, in addition to reproductive effects.
Aspiration hazard	No information available

Myclobutanil has a relatively low acute toxicity. The acute oral LD50 for mice is 1360 mg/kg, and ranges from 1.75 to 1.8 g/kg for rats. Myclobutanil metabolizes into 1,2,4-triazole, which has a lower acute toxicity than the parent compound.

**12. ECOLOGICAL INFORMATION**

Myclobutanil is nontoxic to bees, with an LD50 exceeding 362 ug/bee. It is moderately toxic to birds. The acute oral LD50 for bobwhite quail is 498 mg/kg. The primary metabolite, 1,2,4-triazole, is expected to be less toxic than myclobutanil.

Myclobutanil is environmentally mobile. It has been found in surface water and in rain, suggesting a potential for atmospheric transport. Due to its persistence, myclobutanil may accumulate in soil with multiple applications.

Concentrated myclobutanil is highly toxic to aquatic organisms on an acute basis. Due to the low concentration, this product is much less toxic. 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 from treated turf may adversely affect aquatic organisms in adjacent bodies of water. Do not apply when weather conditions favor drift from treated areas. Do not contaminate water when disposing of equipment washwater.

Application around a cistern or well may result in contamination of groundwater or drinking water, particularly where soils are permeable and water table is shallow.

Persistence and degradability	Due to its persistence, myclobutanil may accumulate in soil with multiple applications.
Bioaccumulation	The potential for bioconcentration is low for myclobutanil.
Mobility in soil	Myclobutanil has low mobility in soil.
Other adverse effects	No information available.

**13. DISPOSAL CONSIDERATIONS**

This material, as supplied is not a hazardous waste according to federal regulations (40 CFR 261).

**Disposal of wastes:** (Example)

- This product is a hazardous waste material.
- EPA Waste Numbers are applicable for this product's components.
- Dispose of in accordance with Local, State, and Federal regulations.

**Contaminated packaging**

US Federal: special packaging considerations for pesticide containers. If the container is empty, do not reuse it. Place it in the trash, unless the label specifies a different procedure. Follow local regulations.

**14. TRANSPORT INFORMATION**

<b>DOT:</b>	Not Regulated	<b>ADR:</b>	Not Regulated
Proper Shipping Name:	Non Regulated	<b>ADN:</b>	Not Regulated
Hazard Class:	Not Applicable	<b>RID:</b>	Not Regulated
<b>IATA:</b>	Not Regulated	<b>IATA:</b>	Not Regulated
Proper Shipping Name:	Non Regulated	<b>TDG:</b>	Not Regulated
Hazard Class:	Not Applicable	<b>ICAO:</b>	Not Regulated
<b>IMDG/IMO</b>	Not Regulated	<b>MEX:</b>	Not Regulated
Hazard Class	Not Applicable		
Marine Pollutant	No		

**15. REGULATORY INFORMATION**

**General Product Information:** This product is not federally regulated as a hazardous material.

**Clean Air Act:** No data

**Clean Water Act:** No data

State Right-to-Know Components:

**TSCA STATUS:** This product is exempt from TSCA Regulation under FIFRA Section 3(2)(G)(ii) when used as a pesticide.

**CERCLA REPORTABLE QUANTITY:** No components listed

**SARA TITLE III:**

- Section 302, Extremely Hazardous Substances: None
- Section 311/312 Hazard Categories:
- Section 313 Toxic Chemicals: None at reportable quantities

**State Regulations**

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS#	CA	MA	MN	NJ	PA	RI
Myclobutanil	88671-89-0	Yes	No	Yes	No	No	No

Proposition 65: This product contains detectable quantities of a chemical (Myclobutanil) known to the State of California to cause birth defects, or other reproductive harm.

**16. OTHER INFORMATION**

Disclaimer

The information provided in this material safety data sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal, and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.