

2442059 - EAGLE®.62G FUNGICIDE

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

COMPANY IDENTIFICATION: Lebanon Seaboard Corporation
1600 East Cumberland Street
Lebanon PA 17042

GENERAL INFORMATION TELEPHONE NUMBER: 800-532-0090

HEALTH EMERGENCY TELEPHONE NUMBERS: 888-208-1368 PROSAR

ENVIRONMENTAL EMERGENCY: 800-424-9300 CHEMTREC

2. HAZARDOUS COMPONENTS

	CAS REG NO	WEIGHT (%)
Myclobutanil	88671-89-0	0.62
INERT INDREDIENTS:		99.38

See Section 8, Exposure Controls / Personal Protection

3. HAZARDS IDENTIFICATION

Primary Routes of Exposure:

Eye Contact

Skin Contact

Inhalation

Inhalation: Repeated or prolonged inhalation of dust is possibly harmful.

Eye Contact:

Direct contact with material can cause the following:
mild irritation.

Skin Contact:

Prolonged or repeated skin contact can cause the following: possible skin irritation - an allergic skin reaction

Ingestion: Material is possibly harmful if swallowed.

Delayed Effects:

Prolonged or repeated exposure can cause the following:
adverse reproductive effects - embryofetotoxic effects

4. FIRST AID MEASURES

Inhalation: Move subject to fresh air.

Eye Contact: IMMEDIATELY flush eyes with a large amount of water for at least 15 minutes. Get prompt medical attention.

Skin Contact: Wash affected skin areas thoroughly with soap

and water. Consult a physician if irritation persists.
Ingestion: If swallowed, give 2 glasses of water to drink.
Consult a physician. Never give anything by mouth to an unconscious person.
Note to Physician: If swallowed, careful evacuation of the stomach is advisable.

5. FIRE FIGHTING MEASURES

Flash Point: Not Applicable

Auto-ignition Temperature: No Data

Lower Explosive Limit: Not Applicable

Upper Explosive Limit: Not Applicable

Unusual Hazards: Pesticide particulates can become airborne.

Combustion generates toxic fumes of the following:
hydrogen chloride

Extinguishing Agents:

Use the following extinguishing media when fighting fires involving this material:

- carbon dioxide
- dry chemical
- water spray

Personal Protective Equipment: Wear self-contained breathing apparatus (pressure-demand MSHA/NIOSH approved or equivalent) and full protective gear.

Special Procedures: Contain run-off. Remain upwind. Avoid breathing smoke. Use water spray to cool containers exposed to fire.

6. ACCIDENTAL RELEASE MEASURES

Personal Protection: Appropriate protective equipment must be worn when handling a spill of this material. See SECTION 8, Exposure Controls/Personal Protection, for recommendations. If exposed to material during clean-up operations, see SECTION 4, First Aid Measures, 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.

Procedures: Transfer spilled material to suitable containers for recovery or disposal. Keep dust to a minimum. Apply according to label.

CAUTION: Keep spills and cleaning runoff out of municipal sewers and open bodies of water.

7. HANDLING AND STORAGE

Storage Conditions: Do not store this material near food, feed or drinking water. Store in a well ventilated area. Store in a dry area. Store out of direct sunlight in a cool place.

Handling Procedures: Do not handle material near food, feed or drinking water.

Other: Dispose empty container in a sanitary landfill or by incineration as allowed by state and local authorities. Avoid inhalation of smoke if incinerated.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limit Information

No	CAS REG NO	WEIGHT (%)
Myclobutanil	88671-89-0	0.62
INERT INGREDIENTS:		99.38

Comp. No.	Units	DowAgroSciences		OSHA		ACGIH	
		TWA	STEL	TWA	STEL	TWA	STEL
	mg/m3	1	3	None	None	None	None

NFPA HAZARD RATINGS:

HEALTH 1
FLAMMABILITY 0
REACTIVITY 0

Respiratory Protection: A respiratory protection program meeting OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use. None required if airborne concentrations are maintained below the exposure limit listed in 'Exposure Limit Information'.

Up to 10 times the exposure limit: Wear a MSHA/NIOSH approved (or equivalent) half-mask, air-purifying respirator.

Eye Protection: Eye protection worn must be compatible with respiratory protection system employed.

Hand Protection: Chemical-resistant gloves may be worn

whenever this material is handled.

Gloves should be removed and replaced immediately if there is any indication of degradation or chemical breakthrough. Rinse and remove gloves immediately after use. Wash hands with soap and water.

Other Protection: Clothing should be removed and laundered.

Engineering Controls (Ventilation): None needed during normal application.

Other Protective Equipment: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

9. PHYSICAL AND CHEMICAL PROPERTIES

Color: Gray to yellow

State: Granule solid

pH: Not Applicable

Viscosity: Not Applicable

Specific Gravity (Water = 1): Not Applicable

Vapor Density (Air = 1): Not Applicable

Vapor Pressure: Not Applicable

Melting Point: Not Applicable

Boiling Point: Not Applicable

Solubility in Water: Not Applicable

Percent Volatility: 0%

Evaporation Rate (BAC = 1): Not Applicable

See Section 5, Fire Fighting Measures

10. STABILITY AND REACTIVITY

Instability: This material is considered stable.

Hazardous Decomposition Products: Thermal decomposition may yield the following: hydrogen chloride

Hazardous Polymerization: Product will not undergo polymerization.

Incompatibility: Avoid contact with strong oxidizing agents, particularly concentrated nitric acid.

11. TOXICOLOGICAL INFORMATION

Acute Data

Oral LD50 - rat: 2290 mg/kg (female); 1600 mg/kg (male)

Oral LD50 - mouse: 1910 mg/kg (male); 1840 mg/kg (female)

Dermal LD50 - rabbit: >5000 mg/kg

Inhalation LC50 - rat: >5.1 mg/L for 4 hr

Skin Irritation - rabbit: no irritation

Eye irritation - rabbit:

severe irritation (FIFRA Classification)

moderate irritation (EEC Classification)

Carcinogenicity Data: Slightly decreased testicular weight and minimal testicular atrophy were observed at 200 and 800 ppm, respectively, in the rat two-year chronic/oncogenicity study; the overall NOEL was 50 ppm (2.5 mg/kg/day) in rats. No neoplastic changes were observed.

The target organ in the mouse two-year oncogenicity study was the liver; the overall NOEL was 20 ppm (3 mg/kg/day) in mice. No neoplastic changes were observed.

The target organ in the dog one-year oncogenicity study was the liver; the overall NOEL was 100 ppm (3 mg/kg/day) in dogs.

Mutagenicity Data:

Ames mutagenicity: Negative

Mammalian cell gene-mutation assay in Chinese hamster ovary cells (CHO): Negative

In vitro cytogenetic assay (Chinese hamster ovary cells): Negative

In vivo cytogenetic assay (mouse): Negative

In vitro rat hepatocyte Unscheduled DNA Synthesis: Negative

Dominant lethal test (rat): Negative

Reproductive/Teratology Data: No evidence of teratogenicity was observed in studies with rats and rabbits.

Embryotoxicity was observed at 94 mg/kg/day and above in the rat developmental toxicity study; maternal toxicity was observed at 313 mg/kg/day and above. The overall NOEL was 31 mg/kg/day in rats.

Embryotoxicity was observed at 200 mg/kg/day in the rabbit developmental toxicity study; maternal toxicity was observed at 60 mg/kg/day and above. The overall NOEL was 20 mg/kg/day in rabbits.

Systemic toxicity was observed at 200 and 1000 ppm in the rat two-generation reproduction study; minimal reproductive effects and testicular atrophy were observed at 1000 ppm (50 mg/kg/day). The NOEL for reproductive effects was 200 ppm (10 mg/kg/day) in rats.

Sensitization Data:

Sensitization - guinea pig: Allergic response observed (FIFRA Classification)

Not a sensitizer (EEC Classification)

Environmental Toxicity:

Bluegill sunfish (*Lepomis macrochirus*), 96 Hour
LC50: 2.2 mg/l
Rainbow trout (*Salmo gairdneri*), 96 Hour LC50: 3.9 mg/l
Daphnia magna, 48 Hour LC50: 10.2 mg/l
Eastern oyster, 96 Hour EC50: 0.72 mg/l
Mysid shrimp (*Mysidopsis bahia*), 96 Hour LC50: 240 ug/l
Algae (*Selenastrum capricornutum*), 120 Hour
EC50: 0.91 mg/l
Algae (*Scenedesmus subspicatus*), 96 Hour EC50: 2.6 mg/l
Bobwhite quail, Dietary LC50: > 5000 ppm
Bobwhite quail, LD50: 510 mg/kg
Mallard duck, Dietary LC50: > 5000 ppm
Honeybee, LD50: > 362 ug/bee

All results are based on mean measured concentrations of
the active ingredient.

13. DISPOSAL CONSIDERATIONS

Procedure: For disposal, incinerate this material at a
facility that complies with local, state, and federal
regulations.

14. TRANSPORT INFORMATION

US DOT Hazard Class: NONREGULATED

15. REGULATORY INFORMATION

Workplace Classification: This product is considered
hazardous under the OSHA Hazard Communication Standard
(29CFR 1910.1200).

This product is subject to regulation under the Canadian
Pest Control Products Act (P.C.P. Act). Therefore, this
product is excluded from the supplier labeling and
material safety data sheet requirements as specified in
Section 12 of the Hazardous Products Act.

SARA TITLE 3:

Section 311/312 Categorizations (40CFR 370): This product
is a hazardous chemical under 29CFR 1910.1200, and is
categorized as an immediate and delayed health hazard.

SARA TITLE 3:

Section 313 Information (40CFR 372): This product
contains a chemical which is listed in Section 313 at
or above de minimis concentrations.

The following listed chemicals are present: (Quantity present is found elsewhere on this MSDS.)

- Myclobutanil (alpha-Butyl-alpha-(4-chlorophenyl)-1H-1,2,4-triazole-1-propanenitrile) (88671-89-0)

CERCLA Information (40CFR 302.4): Releases of this material to air, land, or water are not reportable to the National Response Center under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) or to state and local emergency planning committees under the Superfund Amendments and Reauthorization Act (SARA) Title III Section 304.

Waste Classification: When a decision is made to discard this material as supplied, it does not meet RCRA's characteristic definition of ignitability, corrosivity, or reactivity, and is not listed in 40 CFR 261.33. The toxicity characteristic (TC), however, has not been evaluated by the Toxicity Characteristic Leaching Procedure (TCLP).

United States: This product is subject to regulation under the US Federal Insecticide, Fungicide and Rodenticide Act (FIFRA) and is therefore exempt from U.S. Toxic Substances Control Act (TSCA) Inventory listing requirements.

16. OTHER INFORMATION

MSDS STATUS: 03/22/10 rev.

The Information Herein Is Given In Good Faith, But No Warranty, Express or Implied, Is Made. Consult Dow AgroSciences for Further Information.

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