

# Lebanon Seaboard Corporation

## Material Safety Data Sheet

LEBANON TURF FUNGICIDE CONTAINS 1% BAYLETON®

MSDS Number: 2442098

Revision Date: 5/12/2011

### SECTION 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

**Product Name** LEBANON TURF FUNGICIDE CONTAINS 1% BAYLETON®  
**MSDS Number** 2442098

Lebanon Seaboard Corporation  
1600 East Cumberland Street  
Lebanon PA 17042  
USA

For TRANSPORTATION or other EMERGENCY call: 1-800-424-9300 CHEMTREC  
For MEDICAL-PROSAR 888-208-1368 For Product Information call: 717-273-1685

### SECTION 2. HAZARDS IDENTIFICATION

*NOTE: Please refer to Section 11 for detailed toxicological information.*

**Emergency Overview** Caution! Harmful if swallowed, inhaled or absorbed through the skin. Moderate eye irritation. Avoid breathing dust or vapor. Avoid contact with skin, eyes and clothing.

**Physical State** granular

**Odor** mild ketone-like

**Appearance** beige

**Routes of Exposure** Inhalation, Eye contact, Skin contact, Skin Absorption

#### Immediate Effects

**Eye** Causes eye irritation. Avoid contact with eyes.

**Skin** Harmful if absorbed through skin. Avoid contact with skin and clothing.

**Ingestion** Harmful if swallowed. Do not take internally.

**Inhalation** Harmful if inhaled. Avoid breathing dust or vapor.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Hazardous Component Name</u>	<u>CAS-No.</u>	<u>Average % by Weight</u>
Triadimefon	43121-43-3	1.00
Dipropylene glycol	25265-71-8	

### SECTION 4. FIRST AID MEASURES

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<b>General</b>	When possible, have the product container or label with you when calling a poison control center or doctor or going for treatment.
<b>Eye</b>	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 eye. Call a physician or poison control center immediately.
<b>Skin</b>	Take off contaminated clothing and shoes immediately. Wash off immediately with plenty of water for at least 15 minutes. Call a physician or poison control center immediately.
<b>Ingestion</b>	Call a physician or poison control center immediately. Rinse out mouth and give water in small sips to drink. DO NOT induce vomiting unless directed to do so by a physician or poison control center. Never give anything by mouth to an unconscious person. Do not leave victim unattended.
<b>Inhalation</b>	Move 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 physician or poison control center immediately.
<b>Notes to Physician</b>	
<b>Signs and Symptoms</b>	hyperactivity followed by sedation
<b>Treatment</b>	Treat symptomatically. There is no specific antidote.

## SECTION 5. FIRE FIGHTING MEASURES

<b>Flash point</b>	not applicable
<b>Fire and Explosion Hazards</b>	In the event of fire the following may be released: Nitrogen oxides (NOx) Carbon dioxide (CO2) Hydrogen chloride (HCl)
<b>Suitable Extinguishing Media</b>	Water
<b>Fire Fighting Instructions</b>	Keep out of smoke. Fight fire from upwind position. Do not allow run-off from fire fighting to enter drains or water courses.  In the event of fire, wear self-contained breathing apparatus.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions</b>	Keep unauthorized people away. Isolate hazard area. Avoid contact with spilled product or contaminated surfaces.
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**Methods for cleaning up** Collect and transfer the product into a properly labelled and tightly closed container. Clean contaminated floors and objects thoroughly, observing environmental regulations.

**Additional Advice** Use personal protective equipment.

## SECTION 7. HANDLING AND STORAGE

**Handling Procedures** Handle and open container in a manner as to prevent spillage. Maintain exposure levels below the exposure limit through the use of general and local exhaust ventilation.

**Storing Procedures** Store in a cool, dry place and in such a manner as to prevent cross contamination with other crop protection products, fertilizers, food, and feed. Store in original container and out of the reach of children, preferably in a locked storage area. The 30-day storage temperature average must not exceed the recommended maximum.

**Work/Hygienic Procedures** Remove soiled clothing immediately and clean thoroughly before using again. Wash thoroughly and put on clean clothing.

**Min/Max Storage Temperatures** Recommended maximum transport/storage temperature: 38 °C / 100 °F

## SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**General Protection** There are no known hazards associated with this product when used according to the label directions. The following guidelines should be followed.

Avoid breathing dust. Avoid contact with skin and eyes.

Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, using the toilet or applying cosmetics.

Do not allow children or pets to enter the treated area until granules have been watered into the soil and the grass or soil is dry.

**Eye/Face Protection** Goggles

**Hand protection** Chemical resistant nitrile rubber gloves

**Body Protection** Wear long-sleeved shirt and long pants and shoes plus socks.

**Respiratory Protection** When respirators are required, select NIOSH approved equipment based on actual or potential airborne concentrations and in accordance with the appropriate regulatory standards and/or industry recommendations.

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#### Exposure Limits

Triadimefon	43121-43-3	OES BCS*	TWA	0.7 mg/m3
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\*OES BCS: Internal Bayer CropScience "Occupational Exposure Standard"

#### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	beige
<b>Physical State</b>	granular
<b>Odor</b>	mild ketone-like
<b>Bulk Density</b>	28-47 lbs/cu ft

#### SECTION 10. STABILITY AND REACTIVITY

<b>Conditions to Avoid</b>	Exposure to moisture. Heat, flames and sparks.
<b>Incompatibility</b>	Strong oxidizing agents Acids
<b>Chemical Stability</b>	Stable under recommended storage conditions.

#### SECTION 11. TOXICOLOGICAL INFORMATION

Only acute toxicity studies have been performed on this product as formulated. The non-acute information pertains to the technical-grade active ingredient, triadimefon.

<b>Acute Oral Toxicity</b>	male/female combined rat: LD50: > 2,500 mg/kg
<b>Acute Dermal Toxicity</b>	male/female combined rabbit: LD50: > 2,000 mg/kg
<b>Acute Inhalation Toxicity</b>	no data available
<b>Skin Irritation</b>	rabbit: No skin irritation.
<b>Eye Irritation</b>	rabbit: Mild eye irritation.
<b>Sensitization</b>	guinea pig: Non-sensitizing.
<b>Chronic Toxicity</b>	Triadimefon affected the liver and/or thyroid (secondary effects) in chronic studies in rats and dogs.

#### Assessment Carcinogenicity

Triadimefon has been classified by EPA as a Group C (possible human carcinogen) based on borderline

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statistically significant increases in thyroid adenomas in male rats, and increases in liver adenomas in both sexes in mice. The Agency used a non-linear methodology approach for determining the Margin of Exposure (MOE) for the estimation of human cancer risk because the tumors were benign, and there were no apparent genotoxicity concerns. Therefore, EPA has a reasonable certainty that no harm will result from exposure to residues of triadimefon.

**ACGIH**

None.

**NTP**

None.

**IARC**

None.

**OSHA**

None.

**Reproductive toxicity**

**REPRODUCTION:** Triadimefon caused reproductive effects (e.g., smaller litter sizes) in conjunction with parental toxicity at the highest dose tested in reproduction studies in rats.

**DEVELOPMENTAL TOXICITY:** Triadimefon is not considered a primary developmental toxicant in laboratory animals. Developmental effects were observed only at doses that caused maternal toxicity.

**Neurotoxicity**

Triadimefon caused prominent hyperactivity-related neurobehavioral changes in acute (oral gavage) and subchronic (diet) neurotoxicity screening studies in rats. There were no neuropathologic alterations in the skeletal muscle or neural tissues in either study.

**Mutagenicity**

Triadimefon is not considered genotoxic based on a battery of in vitro and in vivo tests.

## SECTION 12. ECOLOGICAL INFORMATION

**Environmental Precautions**

Do not contaminate surface or ground water by cleaning equipment or disposal of wastes, including equipment wash water. Do not allow to get into surface water, drains and ground water. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Apply this product as specified on the label.

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#### SECTION 13. DISPOSAL CONSIDERATIONS

<b>General Disposal Guidance</b>	It is best to use all of the product in accordance with label directions. If it is necessary to dispose of unused product, please follow container label instructions and applicable local guidelines.
<b>Container Disposal</b>	Empty remaining contents. Do not re-use empty containers. Dispose of empty container in a sanitary landfill or by incineration, or, if allowed by State/Provincial and local authorities, by burning. If burned, stay out of smoke.

#### SECTION 14. TRANSPORT INFORMATION

TRANSPORTATION CLASSIFICATION:  
Not regulated for shipment by any mode of transportation

FREIGHT CLASSIFICATION:  
Insecticides or Fungicides, N.O.I.; other than poison

#### SECTION 15. REGULATORY INFORMATION

##### US Federal Regulations

###### TSCA list

Dipropylene glycol 25265-71-8

###### US. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpt D)

None.

###### SARA Title III - Section 302 - Notification and Information

None.

###### SARA Title III - Section 313 - Toxic Chemical Release Reporting

Triadimefon 43121-43-3 1.0%

##### US States Regulatory Reporting

###### CA Prop65

This product does not contain any substances known to the State of California to cause cancer.

This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

Triadimefon	43121-43-3	Developmental toxin.
Triadimefon	43121-43-3	Female reproductive toxin.
Triadimefon	43121-43-3	Male reproductive toxin.

###### US State Right-To-Know Ingredients

Triadimefon	43121-43-3	NJ
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##### Canadian Regulations

###### Canadian Domestic Substance List

Dipropylene glycol 25265-71-8

##### Environmental

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**CERCLA**

None.

**Clean Water Section 307 Priority Pollutants**

None.

**Safe Drinking Water Act Maximum Contaminant Levels**

None.

#### SECTION 16. OTHER INFORMATION

NFPA 704 (National Fire Protection Association):

Health - 1      Flammability - 0      Reactivity - 1      Others - none

0 = minimal hazard, 1 = slight hazard, 2 = moderate hazard, 3 = severe hazard, 4 = extreme hazard

Reason to Revise: Updated for general editorial purposes.

Revision Date: 5/12/2011

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