



## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

Product Name: **Preen Garden Weed Preventer**

EPA No: 961-280

Recommended use

This product is a pesticide 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.com

Emergency 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:**

H317: May cause an allergic skin reaction. (Category 1B)

H320: Causes eye irritation. (Category 2B)

May irritate the digestive tract if ingested.

Keep out of reach of children.



Pictogram: Silhouette, Exclamation Point.

**Precautionary Statements:**

P261: Avoid breathing dust.

P264: Wash hands and exposed skin thoroughly after handling.

P272: Use only outdoors or in a well-ventilated area.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P333; P352: If skin irritation or rash occurs: Wash with plenty of soap and water. Seek medical advice if irritation persists.

P305; P337; P351: If in eyes: Rinse cautiously with water for several minutes. Seek medical attention if eye irritation persists.

P363: Wash contaminated clothing before reuse.

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

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

Unknown acute toxicity

<1% of the mixture consists of ingredients of unknown toxicity

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**3. COMPOSITION/INFORMATION ON INGREDIENTS**

| Chemical Name                        | CAS No.    | Weight % |
|--------------------------------------|------------|----------|
| Cellulose                            | 9004-34-6  | 40 - 45  |
| Mineral Seal Oil                     | 64742-46-7 | 1 - 2    |
| Trifluralin                          | 1582-09-8  | 1.47     |
| Nonhazardous 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 or irritation 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.

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          | Use only outdoors or in a well-ventilated area. Ensure adequate ventilation, especially in confined areas. Use personal protective equipment as required. Wash hands thoroughly after handling. |
| Storage Conditions     | 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                                                                             | NIOSH IDLH*     |
|----------------|----------------------------|--------------------------------------------------------------------------------------|-----------------|
| Nuisance Dusts | 10 mg/m <sup>3</sup> (TWA) | 15 mg/m <sup>3</sup> (TWA total)<br>50 mppcf (TWA total)<br>5 mppcf (TWA respirable) | Not Established |

\*IDLH refers to amounts that are "Immediately Dangerous to Life or Health"

### Other Information:

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

**Individual protection measures:** Wear protective gloves, protective clothing, eye protection, and face protection.

|                          |                                                                                                                                                                                                                                                                     |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Eye protection           | Safety glasses, or goggles if eye contact is likely                                                                                                                                                                                                                 |
| Skin and Body Protection | Wear protective gloves and coveralls. Examples of preferred glove barrier materials include: Neoprene. Nitrile/butadiene rubber ("nitrile" or "NBR"). Polyvinyl chloride ("PVC" or "vinyl").                                                                        |
| 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. Contaminated work clothing must not be allowed out of the workplace. 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          | No information available                                           |

**10. STABILITY AND REACTIVITY****Reactivity**

No data available

**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, Hydrogen fluoride, Fluorinated hydrocarbons and Carbon monoxide.

**11. TOXICOLOGICAL INFORMATION**

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.

|                          |                                                                                                                                                                            |
|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Sensitization            | May cause an allergic skin reaction.                                                                                                                                       |
| Germ cell mutagenicity   | No information available                                                                                                                                                   |
| Carcinogenicity          | A low incidence of urinary tract tumors was seen in only 1 of 5 chronic studies in rats with trifluralin. Trifluralin is not anticipated to be a carcinogenic risk to man. |
| Reproductive toxicity    | Not a reproductive toxin                                                                                                                                                   |
| STOT - single exposure   | No information available                                                                                                                                                   |
| STOT - repeated exposure | No information available                                                                                                                                                   |
| Chronic toxicity         | No information available                                                                                                                                                   |
| Target Organ Effects     | No information available                                                                                                                                                   |
| Aspiration hazard        | No information available                                                                                                                                                   |

Trifluralin has a low toxicity if swallowed. Harmful effects are not expected from swallowing small amounts.

## 12. ECOLOGICAL INFORMATION

Fertilizers may be harmful to aquatic life with short term effects, causing algal bloom and increased BOD, depending on the amount released.

Aquatic toxicity: Trifluralin is very highly toxic to aquatic organisms (including fish and plants) on an acute basis (LC<sub>50</sub> or EC<sub>50</sub> <0.1 mg/L in the most sensitive species tested).

Avian Toxicity: Trifluralin is practically non-toxic to birds on an acute and dietary basis.

Bees: Trifluralin is not toxic to bees. LD<sub>50</sub> >100micrograms/bee (skin and oral).

The herbicide ingredients are toxic to aquatic invertebrates. Use with care when applying to turf areas adjacent to any bodies of water. 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 | Trifluralin is expected to biodegrade very slowly (only 5% in 28 days in soil).                        |
| Bioaccumulation               | Bioconcentration potential of trifluralin is high (BCF > 3000 or Log P <sub>ow</sub> between 5 and 7). |
| 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:** Do not contaminate water, food or feed by storage or disposal. Dispose of wastes at an approved waste disposal facility in accordance with label requirements and with all federal state, and local regulations. Contact your state environmental office for information on approved waste disposal practices and facilities.

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:

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

| Component   | CAS#      | CA | MA | MN | NJ  | PA  | RI |
|-------------|-----------|----|----|----|-----|-----|----|
| Trifluralin | 1582-09-8 | No | No | Mo | Yes | Yes | No |

Other state regulations may apply. Check individual state requirements.

#### CERCLA REPORTABLE QUANTITY:

This product contains the following substance(s) listed as "Hazardous Substances" under CERCLA which may require reporting of releases:

| Chemical Name | CAS Number  | RQ | % in Product |
|---------------|-------------|----|--------------|
| Trifluralin   | 001582-09-8 | 10 | 1.47%        |

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

**SARA TITLE III:**

Section 302, Extremely Hazardous Substances: None

Section 311/312 Hazard Categories: Immediate Health Hazard. Delayed Health Hazard.

Section 313 Toxic Chemicals: Trifluralin

This material does not contain any chemical components with known CAS numbers that exceed the threshold (*de minimis*) reporting levels established by SARA Title III, Section 313.

#### 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.