

**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY**Product Name: **Preen Mulch Plus (EPA #961-408)**Recommended use: This product is a mixed herbicide mulch 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 numbers:

- Manufacturer: 800-233-0628 (717-273-1685)
- Chemtrec (Spill) 1-800-424-9300
- Prosar (Health) 888-208-1368

2. HAZARDS IDENTIFICATION**OSHA Signal Word:** Warning**EPA Signal Word:** Caution**Hazard Statements and Hazard Categories:**

May cause an allergic skin reaction. (Category 1B - *for Wood mulch*)
Prolonged or repeated contact may cause mild skin or eye irritation.
Prolonged or excessive inhalation exposure may cause irritation of the respiratory tract.
May irritate the digestive tract if ingested.
Keep out of reach of children.

**Precautionary Statements for handling:**

Avoid breathing dust.
Wear protective gloves/protective clothing/eye protection/face protection.
If skin irritation or rash occurs: Wash with plenty of soap and water. Seek medical advice if irritation persists.
Wash 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.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Weight %
Trifluralin	1582-09-8	0.0032
Isoxaben	82558-50-7	0.0008
Fuller's earth	8031-18-3	0.13-0.14
Wood Bark Mulch and Non Hazardous Colorants	N/A	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, 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: May trigger have fever or asthma, dust irritation with nasal discomfort, or skin irritation/rash in individuals sensitive to wood dusts.

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, CO₂, 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. Do not reuse container.

7. HANDLING AND STORAGE

Safe Handling 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, animal feed and potable water supplies. 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*
Trifluralin (1582-09-8)	Not Established	Not Established	Not Established
Isoxaben (82558-50-7)	Not Established	Not Established	Not Established
Nuisance Dusts	10 mg/m ³ (TWA)	15 mg/m ³ (TWA total) 50 mppcf (TWA total) 5 mppcf (TWA respirable)	Not Established

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

Other Information: No adverse health effects expected with normal use, except for individuals with allergic sensitivities to wood dusts.

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.
- 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) Comparable to wood
- Flammability Limits in Air
 - Upper flammability limit: No information available
 - Lower flammability limit: No information available
- Vapor pressure Not applicable
- Vapor density Not applicable

Bulk Density	Approximately 18 Lb per cubic ft.
Water solubility	Mostly Insoluble in water.
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 wood ingredients are 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

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	Repeated and prolonged exposures to certain wood products can produce allergenic responses in certain individuals. Avoid repeated and prolonged contact with skin. If allergy, such as dermatitis (rash), asthma, or bronchitis develops, it may be necessary to avoid further exposure to the product.
Mutagenicity	In vitro genetic toxicity studies for trifluralin were predominantly negative. Animal genetic toxicity studies were negative. (Not a significant risk at these concentrations.)
Carcinogenicity	Trifluralin is not anticipated to be a carcinogenic risk to man.
Oral	Low toxicity if swallowed.
Reproductive toxicity	No information available
STOT - single exposure	No information available
STOT - repeated exposure	No information available
Chronic toxicity	See sensitization
Target Organ Effects	Lungs-Nuisance dust
Aspiration hazard	No information available

12. ECOLOGICAL INFORMATION

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

Fish: Material is practically non-toxic to aquatic organisms on an acute basis. (LC50/EC50/EL50/LL50 >100 mg/L in the most sensitive species tested).

Birds: Material is practically non-toxic to birds on an acute basis (LD50 > 2000 mg/kg).

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 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: No Information available.
 Bioaccumulation No Information available.
 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 in accordance with all federal state, and local 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

DOT:	Not Regulated	ADR:	Not Regulated
Proper Shipping Name:	Non Regulated	ADN:	Not Regulated
Hazard Class:	Not Applicable	RID:	Not Regulated
IATA:	Not Regulated	IATA:	Not Regulated
Proper Shipping Name:	Non Regulated	TDG:	Not Regulated
Hazard Class:	Not Applicable	ICAO:	Not Regulated
IMDG/IMO	Not Regulated	MEX:	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 component appears on PA Worker and Community Right-To-Know Act: Trifluralin, CAS# 1582-09-8

California Proposition 65: This product does not contain detectable quantities of chemical(s) known to the State of California to cause cancer.

CERCLA REPORTABLE QUANTITY:

This product does not contain any substances listed as "Hazardous Substances" under CERCLA.

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

SARA TITLE 311/312 Hazard Categories:

Acute:	Yes
Chronic:	Yes
Fire:	No
Sudden release of Pressure:	No
Reactive:	No

SARA 313 Superfund Amendments: This product contains no chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal regulations, Part 372.

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.