

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

Product Name: Lebanon Crabgrass Control contains 4.6% Tupersan

EPA No: 961-309

Recommended use

This product is a herbicide 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 numbers

Lebanon Seaboard: 800-233-0628

Chemtrec (Spill) 1-800-424-9300

Prosar (Health) 888-208-1368

2. HAZARDS IDENTIFICATION

OSHA Signal Word: Warning

EPA Signal Word: Caution

Hazard Statements:

H333: May be harmful if inhaled in significant quantities. (Category 5)

H316: May cause mild skin irritation. (Category 3)

May irritate the digestive tract if ingested in quantity.

Keep out of reach of children.



Pictogram: Exclamation Point

Precautionary Statements for handling: See Section 7.

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

Hazards not otherwise classified (HNOC): None

Unknown acute toxicity

<3% of the mixture consists of ingredients of unknown toxicity

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Weight %
*Siduron (2-methyl cylcohexyl)-3 phenylurea (Tupersan)	1982-49-6	4.6%
Mineral Seal Oil	64742-46-7	5%
Corn cobs	None	Balance

*Also known as Tupersan.

4. FIRST AID MEASURES

Eye Contact

Rinse eyes with water. If discomfort or irritation persists contact a physician.

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.

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.

7. HANDLING AND STORAGE

Safe Handling	Ensure adequate ventilation, especially in confined areas. Use personal protective equipment as required. Wash hands thoroughly after handling.
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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*
Siduron (Tupersan)	None established	None established	None 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"

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

Individual protection measures

- 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 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 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. Repeated and/or prolonged overexposure to dust may cause chronic irritation of respiratory tract.
Sensitization	Not a sensitizer.
Germ cell mutagenicity	No information available
Carcinogenicity	Not listed as carcinogenic.
Reproductive toxicity	Not listed as a reproductive toxin
STOT - single exposure	No information available
STOT - repeated exposure	No information available
Chronic toxicity (for Tupersan):	In two-year feeding studies, the no-observable effect level for rats was 500 ppm; for dogs the no-observable effect level was 2500 ppm.
Target Organ Effects	No information available
Aspiration hazard	No information available
Oral LD50 (for Tupersan)	>7500 mg/kg (rat)
Dermal Toxicity (for Tupersan)	5500 mg/kg (rabbit) had no effect

12. ECOLOGICAL INFORMATION

Environmental Toxicity for Siduron (Tupersan):

TLM (48 hours) for carp is 18 ppm
 TLM (48 hours) for Japanese goldfish is 10-40 ppm
 TLM (48 hours) for loach is 10-40 ppm
 TLM (48 hours) for tadpole is 10-40 ppm
 TLM (72 hours) for crawfish is >40 ppm
 TLM (3 hours) for water flea is >40 ppm

LC50 (8 day dietary) for both mallard duckling and bobwhite quail >10,000 ppm.

Persistence and degradability	Half-life of Siduron (Tupersan) in soil is 4 to 5 months.
Bioaccumulation	No information available
Other adverse effects	Siduron (Tupersan) is very toxic to fish.
Mobility in soil:	Siduron (Tupersan) resists leaching, tends to remain in the top layer of soil, and degrades at a moderate rate.

The herbicide ingredient (Siduron/Tupersan) is toxic to fish and aquatic plants. 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.

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

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 not considered to be 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

Freight Class: HERBICIDES NOI - NMFC #50320

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

U.S. FEDERAL REGULATORY INFORMATION

EPA REGISTRATION NUMBER: 8378-64
 TSCA INVENTORY: Registered pesticide; exempt from TSCA
 Section 302 (EHS) ingredients: None
 Section 304 (CERCLA & EHS) ingredients (RQ): None

Section 311/312 HAZARD CATEGORIES: Immediate Health Hazard

Section 313 None

SARA TITLE III NOTIFICATIONS AND INFORMATION

SARA TITLE III- HAZARD CLASSES:

Acute Health Hazard-“Yes” Chronic Health Hazard-“No”

Fire Hazard-“No” Sudden Release of pressure Hazard-“No”

Reactivity Hazard-“No”

Clean Air Act: No data

Clean Water Act: No data

State Regulations

California Proposition 65: No.

16. OTHER INFORMATION

NFPA: Health 1 Flammability: 0 Reactivity: 0

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.