

**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:

H316: May cause mild skin irritation (Category 3)

H320: Causes eye irritation (Category 2B)

H312: Harmful if absorbed through skin.

H400: Toxic to aquatic life

Precautionary Statements for handling:

P261: Avoid breathing dust.

P264: Wash hands and exposed skin thoroughly after handling.

P305, P337, P351: If in eyes, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do, and continue rinsing. If eye irritation persists: Seek medical advice.

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

P312: Call a poison center or doctor/physician if you feel unwell.

P273; P391: Avoid unintended release to the environment. Collect spillage.

P322: See specific first aid measures on product label.

P332, 352: If skin irritation occurs: Wash with soap and water. Seek medical attention if irritation persists.

P363: Wash contaminated clothing before reuse.

Avoid contact with skin, eyes, or clothing.

Keep out of reach of children.

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

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

Unknown acute toxicity

&lt;3% of the mixture consists of ingredients of unknown toxicity

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical Name	CAS No.	Weight %
*Siduron (2-methyl cylohexyl)-3 phenylurea (Tupersan)	1982-49-6	4.6%
Mineral Seal Oil	64742-46-7	5%
Non hazardous inert ingredients and fillers	Various	Balance

**4. FIRST AID MEASURES**

Eye Contact	If in eyes, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do, and continue rinsing. If eye irritation persists: Seek medical advice.
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, with redness, itching, or burning sensation. Eye irritation with redness, burning and watery eyes.

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            Ensure adequate ventilation, especially in confined areas. Use personal protective equipment as required. Wash hands and exposed skin 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*
Siduron (Tupersan)	None established	None established	None established
Nuisance Dusts	10 mg/m <sup>3</sup> (TWA)	15 mg/m <sup>3</sup> (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:** Wear protective gloves/protective clothing/eye protection/face protection.

- 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	Not an oxidizer

**10. STABILITY AND REACTIVITY**

**Reactivity**

Not particularly 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 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**

**Disposal of wastes:** (Example)

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

<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**

**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 ingredients are listed.

**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.