



# MATERIAL SAFETY DATA SHEET

## 1. Product and Company Identification

**Material name** DIMENSION .15% 17-0-0 25%SCU  
**Revision date** 22-Mar-2010  
**CAS #** Mixture  
**Manufacturer information** Turf Care Supply Corp.  
50 Pearl Road  
Suite 200  
Brunswick, OH 44212 US  
**Emergency** TCSC (Business Hours): (877)-220-1014  
PERS (24 HR Emergency Number): (800)-633-8253

## 2. Hazards Identification

**Emergency overview** CAUTION  
Harmful in contact with eyes. Cancer hazard. Irritating to skin. Irritating to respiratory system. Prolonged exposure may cause chronic effects.

**OSHA regulatory status** This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication).

**Potential health effects**

**Routes of exposure** Inhalation. Skin contact.

**Eyes** Eye contact may result in corneal injury. Contact may irritate or burn eyes. Avoid contact with eyes.

**Skin** Irritating to skin.

**Inhalation** Prolonged inhalation may be harmful. Irritating to respiratory system. May cause cancer by inhalation. Do not breathe vapor.

**Ingestion** May cause delayed lung damage. Do not ingest. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

**Target organs** Eyes. Respiratory system.

**Chronic effects** Shortness of breath. May cause delayed lung damage.

**Signs and symptoms** Discomfort in the chest. Shortness of breath. Corneal damage. Cough. Conjunctivitis. Rash. Irritation.

## 3. Composition / Information on Ingredients

Hazardous components	CAS #	Percent
CALCIUM CARBONATE	1317-65-3	40 - 60
SULFUR	7704-34-9	1 - 2.5
QUARTZ	14808-60-7	0.1 - 1
Other Significant Components	CAS #	Percent
UREA	57-13-6	20 - 40
Dithiopyr	97886-45-8	0.1 - 1

## 4. First Aid Measures

**First aid**

**Eye contact** Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention immediately.

**Skin contact** Remove and isolate contaminated clothing and shoes. Wash off with warm water and soap. Get medical attention if irritation develops or persists. For minor skin contact, avoid spreading material on unaffected skin.

**Inhalation** Move to fresh air. Oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Call a physician if symptoms develop or persist.

**Ingestion**

Get medical attention immediately. Have victim rinse mouth thoroughly with water. Do not induce vomiting without medical advice. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Do not use mouth-to-mouth method if victim ingested the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.

**Notes to physician**

In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

**General advice**

In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation. Call a physician if symptoms develop or persist. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

## 5. Fire Fighting Measures

**Suitable extinguishing media**

Water.

**Specific methods**

In the event of fire, cool tanks with water spray. Use water spray to cool unopened containers.

**Hazardous combustion products**

May include oxides of carbon. May include oxides of nitrogen. May include oxides of sulphur. May include oxides of phosphorus.

**Protection of firefighters****Protective equipment and precautions for firefighters**

Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask. If tank, rail car or tank truck is involved in a fire, ISOLATE for 800 meters (1/2 mile) in all directions; also consider initial evacuation for 800 meters (1/2 mile) in all directions. ALWAYS stay away from tanks engulfed in flame. Withdraw immediately in case of rising sound from venting safety devices or any discoloration of tanks due to fire. Move containers from fire area if you can do it without risk. Use water spray to cool unopened containers. Cool containers with flooding quantities of water until well after fire is out.

## 6. Accidental Release Measures

**Personal precautions**

Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering. Keep unnecessary personnel away. Stay upwind. Keep out of low areas.

**Containment procedures**

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Prevent entry into waterways, sewers, basements or confined areas.

**Methods for containment**

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Prevent entry into waterways, sewers, basements or confined areas.

**Methods for cleaning up**

Dike far ahead of liquid spill for later disposal. Sweep up or gather material and place in appropriate container for disposal. Avoid dust formation. After removal flush contaminated area thoroughly with water.

## 7. Handling and Storage

**Handling**

Do not breathe gas/fumes/vapor/spray. Use only with adequate ventilation. Wear personal protective equipment. Do not get this material in contact with eyes. Do not get this material in contact with skin. Wash thoroughly after handling. Avoid prolonged exposure.

**Storage**

Keep container tightly closed. Store in cool place. Keep in a well-ventilated place. Keep this material away from food, drink and animal feed. Keep out of the reach of children. Use care in handling/storage. Keep away from heat and flame.

## 8. Exposure Controls / Personal Protection

### Exposure limits

#### ACGIH

Material	CAS #	TWA	STEL	Ceiling
DIMENSION .15% 17-0-0 25%SCU	Mixture	Not established	Not established	Not established

#### Components

CALCIUM CARBONATE	1317-65-3	Not established	Not established	Not established
UREA	57-13-6	Not established	Not established	Not established
SULFUR	7704-34-9	Not established	Not established	Not established
QUARTZ	14808-60-7	0.025 mg/m3	Not established	Not established
Dithiopyr	97886-45-8	Not established	Not established	Not established

#### OSHA

Material	CAS #	TWA	STEL	Ceiling
DIMENSION .15% 17-0-0 25%SCU	Mixture	Not established	Not established	Not established

#### Components

CALCIUM CARBONATE	1317-65-3	15 mg/m3	Not established	Not established
UREA	57-13-6	Not established	Not established	Not established
SULFUR	7704-34-9	Not established	Not established	Not established
QUARTZ	14808-60-7	Not established	Not established	Not established
Dithiopyr	97886-45-8	Not established	Not established	Not established

### Engineering controls

Ensure adequate ventilation, especially in confined areas.

### Personal protective equipment

#### Eye / face protection

Avoid contact with eyes. Wear chemical goggles.

#### Skin protection

Avoid contact with the skin. Wear appropriate chemical resistant gloves. Wear appropriate chemical resistant clothing.

#### Hand protection

Protective gloves.

#### Respiratory protection

Wear positive pressure self-contained breathing apparatus (SCBA). When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

#### General hygiene considerations

When using do not smoke. Avoid contact with eyes. Avoid contact with skin. Keep away from food and drink. Handle in accordance with good industrial hygiene and safety practice.

#### General

Avoid contact with skin. Avoid contact with eyes.

## 9. Physical & Chemical Properties

<b>Appearance</b>	Solid. Granular.
<b>Color</b>	Light yellow.
<b>Odor</b>	Slightly ammoniacal.
<b>Odor threshold</b>	Not available.
<b>Physical state</b>	Solid.
<b>Form</b>	Granular. Solid.
<b>pH</b>	Not available.
<b>Freezing point</b>	Not available.
<b>Flash point</b>	Not available.
<b>Evaporation rate</b>	Not available.
<b>Flammability</b>	Not available.
<b>Flammability limits in air, upper, % by volume</b>	Not available.

Flammability limits in air, lower, % by volume	Not available.
Vapor pressure	Not available.
Specific gravity	0.53 estimated
Relative density	0.5281 g/cm <sup>3</sup> estimated
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.

## 10. Chemical Stability & Reactivity Information

Stability	Stable at normal conditions.
Chemical stability	Stable at normal conditions.
Conditions to avoid	Heat, flames and sparks.
Hazardous decomposition products	May include oxides of carbon. May include oxides of nitrogen. May include oxides of sulphur. May include oxides of phosphorus.

## 11. Toxicological Information

Local effects	Contact may irritate or burn eyes. Irritating to skin. Irritating to respiratory system. Components of the product may be absorbed into the body through the skin.
Sensitization	Not expected to be hazardous by OSHA criteria.
Eye contact	Not available.
Skin contact	Not available.
Acute toxicity	Acute LC50: 423 mg/l/4h estimated, Rat, Inhalation
Chronic toxicity	Hazardous by OSHA criteria. Prolonged or repeated exposure may cause lung injury. Prolonged exposure may cause chronic effects.
Corrosivity	Not expected to be hazardous by OSHA criteria.
Carcinogenicity	Hazardous by OSHA criteria.
Neurological effects	Not expected to be hazardous by OSHA criteria.
Mutagenicity	Not expected to be hazardous by OSHA criteria.
Reproductive effects	Not expected to be hazardous by OSHA criteria.
Teratogenicity	Not expected to be hazardous by OSHA criteria.

## 12. Ecological Information

Ecotoxicity	LC50 9046 mg/L estimated, Fish, 96.00 Hours, EC50 27861 mg/L estimated, Daphnia, 48.00 Hours, IC50 estimated, Algae, 72.00 Hours, Components of this product have been identified as having potential environmental concerns.
-------------	----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

## 13. Disposal Considerations

Disposal instructions	Consult authorities before disposal. This product, in its present state, when discarded or disposed of, is not a hazardous waste according to Federal regulations (40 CFR 261.4 (b)(4)). Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste. Dispose in accordance with all applicable regulations.
-----------------------	---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

## 14. Transport Information

### Department of Transportation (DOT) Requirements

Not regulated as dangerous goods.

## 15. Regulatory Information

**US federal regulations** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.  
All components are on the U.S. EPA TSCA Inventory List.  
CERCLA/SARA Hazardous Substances - Not applicable.

### Occupational Safety and Health Administration (OSHA)

**29 CFR 1910.1200 hazardous chemical** Yes

### CERCLA (Superfund) reportable quantity

None

### Superfund Amendments and Reauthorization Act of 1986 (SARA)

**Hazard categories** Immediate Health Hazard - Yes  
Delayed Health Hazard - Yes  
Fire Hazard - No  
Pressure Hazard - No  
Reactivity Hazard - No

**Section 302 extremely hazardous substance** No

**Section 311 hazardous chemical** Yes

### Inventory status

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	Yes
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of New and Existing Chemicals (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

**State regulations** WARNING: This product contains a chemical known to the State of California to cause cancer.

**EPA Registration Number** 62719-504-82757

## 16. Other Information

**HMIS® ratings** Health: 2\*  
Flammability: 1  
Physical hazard: 0

**NFPA ratings** Health: 2  
Flammability: 1  
Instability: 0

**Issue date** 22-Mar-2010