



MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Material name 39-0-0 100%PPSCU 2000# FL
Revision date 02-Feb-2009
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 WARNING
May be ignited by heat, sparks or flames. Toxic by inhalation. Irritating to skin. Irritating to eyes. Irritating to respiratory system. This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

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 Causes eye irritation. Avoid contact with eyes.

Skin Irritating to skin. Avoid contact with the skin.

Inhalation Toxic by inhalation. Irritating to respiratory system. Avoid breathing dust/fume/gas/mist/vapors/spray.

Ingestion Do not ingest. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

3. Composition / Information on Ingredients

Components	CAS #	Percent
SULFUR	7704-34-9	80 - 90

4. First Aid Measures

First aid

Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. If irritation persists get medical attention.

Skin contact Wash off immediately with plenty of water. Remove and isolate contaminated clothing and shoes. If skin irritation persists, call a physician.

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. Get medical attention immediately.

Ingestion 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. If ingestion of a large amount does occur, seek medical attention.

Notes to physician Symptoms may be delayed.

General advice Immediate medical attention is required. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. Fire Fighting Measures

Suitable extinguishing media Large Fires: Water. Water spray, fog or regular foam. Dry chemical, CO2, water spray or regular foam.
Small Fires:

Unsuitable extinguishing media	Do not use a solid water stream as it may scatter and spread fire.
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 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. Do not scatter spilled material with high pressure water streams. 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 use in areas without adequate ventilation. Do not handle or store near an open flame, heat or other sources of ignition. Do not breathe gas/fumes/vapor/spray. Avoid contact with skin. Avoid contact with eyes. Use only with adequate ventilation. Wear personal protective equipment. Wash thoroughly after handling.
Storage	Keep container tightly closed. Store in cool place. Keep in a well-ventilated place. Keep out of the reach of children. Use care in handling/storage. Keep away from heat and flame.

8. Exposure Controls / Personal Protection

Engineering controls	Provide adequate ventilation.
Personal protective equipment	
Eye / face protection	Avoid contact with eyes. Wear chemical goggles.
Skin protection	Avoid contact with the skin. Protective gloves. Wear appropriate chemical resistant clothing.
Hand protection	Protective gloves.
Respiratory protection	Wear positive pressure self-contained breathing apparatus (SCBA).
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

Appearance	To be determined
Color	To be determined
Odor	To be determined
Odor threshold	Not available.
Physical state	Solid.
Form	Granular. Solid.
pH	Not available.
Melting point	224.6 °F (107 °C) estimated

Freezing point	Not available.
Boiling point	834.8 °F (446 °C) estimated
Flash point	442.4 °F (228 °C) estimated
Evaporation rate	Not available.
Flammability	Not available.
Flammability limits in air, upper, % by volume	Not available.
Flammability limits in air, lower, % by volume	Not available.
Vapor pressure	Not available.
Specific gravity	1.71 estimated
Relative density	1.7106 g/cm ³ estimated
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	449.6 °F (232 °C) estimated
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 nitrogen. May include oxides of sulphur. May include oxides of phosphorus.

11. Toxicological Information

Local effects	Irritating to eyes. Irritating to skin. Irritating to respiratory system.
Sensitization	Not expected to be hazardous by OSHA criteria.
Eye contact	Not available.
Skin contact	Not available.
Acute toxicity	Acute LD50: 3500 mg/kg estimated, Rat, Oral Acute LD50: 2334 mg/kg estimated, Rat, Dermal Acute LC50: 7 mg/l/4h estimated, Rat, Inhalation
Chronic toxicity	Not expected to be hazardous by OSHA criteria.
Corrosivity	Not expected to be hazardous by OSHA criteria.
Carcinogenicity	Not expected to be 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 1010 mg/L estimated, Fish, 96.00 Hours, Components of this product have been identified as having potential environmental concerns.
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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.
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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 - No
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 This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

16. Other Information

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

NFPA ratings Health: 2
Flammability: 1
Instability: 0

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