

SAFETY DATA SHEET



pH Decreaser

Section 1 - Product and Company Identification

Product Name: pH Decreaser
Product Use: Fertilizer
Company Information: Turf-Shark Fertilizer Inc.
P.O. Box 31009 Willow West
Guelph ON N1H 8K1
Office: 519-265-8863
Fax: 519-265-3111
Emergency Telephone Number: Canutec: 613-996-6666
Chemtrec: 800-424-9300

Section 2 - Hazards Identification

Physical State: Solid.
Appearance: Greenish-tan.
Odour: Slight.

Potential Health Effects

Routes of Exposure: Eyes, skin, inhalation and ingestion.

Eye Contact: May cause eye irritation.

Skin Contact: May cause skin irritation. May be absorbed through the skin in harmful amounts.

Inhalation: May irritate respiratory system.

Ingestion: Harmful if swallowed. Seek medical care. Do not induce vomiting.

Other Information

Powdered material may form explosive dust-air mixture. Toxic to aquatic life.

Section 3 - Composition/Information on Ingredients

Ingredients	CAS #	Concentration
Sulphur	7704-34-9	90%
Bentonite	1302-78-9	10%

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Section 4 – First Aid Measures

Eye Contact: Do not rub eyes. Immediately flush eyes with water; remove contact lenses if present, then continue flushing eyes for at least 15 minutes. Seek medical attention if irritation develops and persists.

Skin Irritation: Wash off skin immediately with soap and water for at least 15 minutes. Remove all contaminated clothing, including shoes. Seek medical attention.

Inhalation: Move person to fresh air; if effects occur, consult a physician.

Ingestion: If swallowed, seek medical attention. Rinse mouth thoroughly. Do not induce vomiting. Do not give anything by mouth to an unconscious or convulsive person.

Symptoms/Effects: Dermal irritation.

Notes to Physician: Treat symptomatically.

Section 5 – Fire Fighting Measures

Suitable Extinguishing Media: Water spray, fog, dry chemical, CO₂ or regular foam. Small fires may be smothered with sand.

Unsuitable Extinguishing Media: High pressure water stream.

Specific Hazards Arising From The Chemical: Avoid dust formation. Dust suspended in the air is readily ignited by: flames, static electricity or friction spark, so every step must be taken to minimize dust formation. Sulphur dioxide reacts with water to form sulfuric acid.

Explosion Data

Sensitivity to Mechanical Impact: None.

Sensitivity to Static Discharge: Yes.

Protective Equipment and Precautions For Firefighters

Wear self-contained breathing apparatus and protective fire fighting clothing. If protective equipment is not available, fight from a protected location or at a safe distance.

Section 6 – Accidental Release Measures

Personal Precautions:	Do not touch damaged containers or spilled material unless wearing appropriate protective gear. Ensure adequate ventilation. Avoid dust formation. Stay upwind. Remove all ignition sources. Wash thoroughly after handling product.
Environmental Precautions:	If safe to do so, prevent further spillage. Product must be disposed of according to Federal/State/Local regulations.
Clean Up:	Shovel spilled material into containers, trying to generate as little dust as possible. Prevent product from entering sewers/waterways.

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Section 7 – Handling and Storage

Handling: Ensure adequate ventilation. Do not get in eyes. Avoid dust formation. Keep away from open flames, hot surfaces and other sources of ignition. Dry powders can build static electricity charges when subjected to the friction of transfer and mixing operations. Provide adequate precautions, i.e. electrical grounding and bonding. Dust tight castings should be equipped with explosion relief vents.

Storage: Store in a dry, cool, well-ventilated area. Keep out of reach of children.

Incompatible Products: Oxidizing agents, acids.

Section 8 – Exposure Controls/Personal Protection

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLN
Bentonite (1302-78-9)	TWA: 1 mg/m ³ respirable fraction	-	-

Personal Protective Equipment

Eye Protection:

Use safety glasses with side shields.

Skin Protection:

Wear long sleeved clothing and impervious gloves.

Respiratory Protection:

Use NIOSH approved respiratory protection if exposure limits are to be exceeded. Positive pressure air respirators may be required for high exposure limits.

Other Protection:

Not needed for normal use.

Work Hygienic Practices:

Upon contact with skin or eyes, wash with water. Wash hands thoroughly after handling the product.

Section 9 – Physical and Chemical Properties

Physical State:	Solid.
Appearance:	Greenish-tan.
Odour:	Slight.
Odour Threshold:	No information available.
pH:	No data available.
Melting Point:	119°C
Boiling Point:	444°C
Flash Point:	188°C
Evaporation Rate:	N/A
Auto-Ignition Temperature:	190°C
Decomposition Temperature:	No data available.
Flammable Properties:	Not flammable.
Flammability Limits (in Air):	Upper limit: 1400 gm/m ³ Lower limit: 35 gm/m ³
Explosive Properties:	No data available.
Oxidizing Properties:	No data available.
Specific Gravity:	2.07
Vapour Density:	No data available.
Vapour Pressure:	No data available.
Solubility in Water:	Insoluble.
Volatiles by Volume:	N/A

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Section 10 – Stability and Reactivity

Chemical Stability:	Stable, under recommended storage conditions.
Reactivity:	None known, under conditions of normal use.
Possible Hazardous Reactions:	Fine dust in air may ignite.
Conditions to Avoid:	Dust formation, exposure to air/moisture.
Hazardous Polymerization:	Will not occur.
Incompatible Materials:	Incompatible with oxidizing agents, acids.
Hazardous Decomposition Products:	Sulphur dioxide.

Section 11 – Toxicological Information

Toxicological Data:	No information available.
Sensitization:	No information available.
Mutagenicity Data:	No information available.
Carcinogenicity Data:	Contains no ingredients above reportable quantities listed as a carcinogen.
Reproductive Effects:	No information available.
STOT – Single Exposure:	No information available.
STOT – Repeated Exposure:	No information available.
Aspiration Hazard:	No information available.

Measures of Toxicity – Product

LD₅₀ Oral:	2500 mg/kg; Acute toxicity estimate.
LD₅₀ Dermal:	1222 mg/kg; Acute toxicity estimate.
Inhalation (Dust/Mist):	6.9 mg/L; Acute toxicity estimate.

Section 12 – Ecological Information

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Micro-Organisms	Daphnia Magna (Water Flea)
Sulphur (7704-34-9)	-	LC ₅₀ : 866mg/L (Brachydanio Rerio) 96h static LC ₅₀ : <14 mg/L (Lepomis Macrochirus) 96h static LC ₅₀ : >180 mg/L (Oncorhynchus Mykiss) 96h static	-	-
Bentonite (1302-78-9)	-	LC ₅₀ 96h: 8.0 – 19.0 g/L (Salmo Gairdneri) LC ₅₀ 96h: 19,000 mg/L static (Oncorhynchus Mykiss)	-	-

The environmental impact of this product has not been fully investigated.

Persistence and Degradability:	No information available.
Bioaccumulation:	No information available.
Other Adverse Effects:	No information available.

Section 13 – Disposal Considerations

Disposal: All disposal practices must be in compliance with all Federal, State/Provincial and local laws and regulations. Regulations may vary in different locations. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator. Turf-Shark Fertilizer Inc. has no control over the management practices or manufacturing processes of parties handling or using this material. The information presented here pertains only to the product as shipped in its intended condition as described in SDS Section 3: Composition/Information on Ingredients. For unused and uncontaminated product, the preferred options include sending to a licensed, permitted: reclaimer, landfill or wastewater treatment system.

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Section 14 – Transport Information

DOT: Not regulated.

Section 15 – Regulatory Information

TSCA (United States Toxic Substances Control Act): All components of this product are either listed or are exempt on the TSCA Inventory.

SARA 311/312 Hazard Categories

Acute Health Hazard:	Yes.
Chronic Health Hazard:	No.
Fire Hazard:	Yes.
Sudden Release of Pressure Hazard:	No.
Reactive Hazard:	No.

Clean Water Act: This product does not contain any substance regulated as pollutants pursuant to the Clean Water Act.

CERCLA: This product, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) or the Superfund Amendments and Reauthorization Act (SARA). There may be specific reporting requirements at the local, regional or state level pertaining to releases of this material.

EPA Pesticide Registration Number: Not applicable.

Section 16 – Other Information

Issue Date: February 1, 2018

NFPA

Health Hazard: 1 Flammability: 1 Instability: 0 Physical & Chemical Hazards: -

HMIS

Health Hazard: 1 Flammability: 1 Physical Hazard: 0 Personal Protection: X

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