

Material Safety Data Sheet

Section 1. Product and Company Identification

Product Name: Optimizer® Green Shade

Product Code: UTA/ARMORTECHOPT

Distributed By: United Turf Alliance
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Canton, GA 30115
Information Phone: (770) 335-3015
Emergency Phone: Chemtrec (800) 424-9300 or 703 527 3887 (international)

Hazardous Material Information System:

Health	1
Flammability	0
Physical Hazard	0
Personal Protection	X

Section 2. Ingredients and Hazards Identification

Emergency Overview: May cause respiratory tract, eye, and skin irritation.

Potential Acute Health Effects:

- Eyes:* Short term harmful effects are not expected. However, irritation may develop causing itching and redness.
- Skin:* Short term harmful effects are not expected. However, mild skin irritation may develop causing itching and redness. Temporary discoloration of skin may occur.
- Inhalation:* Short term harmful effects are not expected. However, exposure to vapors or mist may cause coughing or wheezing when inhaled.
- Ingestion:* Not an intended route of exposure. Short term harmful effects are not expected. However, may upset the gastrointestinal tract.

Section 3. Composition/Information on Ingredients

The composition of this material is a trade secret and contains no other components or impurities which will influence the classification with regard to human and environmental risk assessment.

Section 4. First Aid Measures

Eye Contact: Immediately flush eyes with water for at least 15 minutes. Prolonged or repeated contact may result in mechanical irritation.

Skin Contact: Wash with soap and water.

Inhalation: Move to fresh air. Seek medical attention if irritation develops.

Ingestion: Dilute with water and induce vomiting. Seek medical attention.

Section 5. Fire Fighting Measures

Flammability of Product: Not a fire or explosion hazard when stored under normal conditions.

Fire Fighting Media: Foam, alcohol foam, CO2, dry chemical, water fog.

Protective Clothing: This product is an aqueous mixture which will not burn. If evaporated to dryness, the solid residue may pose a moderate fire hazard. No special procedures required besides standard fire fighting procedures.

Section 6. Accidental Release Measures

- Clean-Up Procedures:** Collect spilled material with an inert absorbent such as sand or vermiculite. Place in properly labeled and closed container. Dispose of collected material according to federal, state/provincial and local environmental regulations.
- Spills and Leaks:** Contain the spill or leak to prevent discharges to surface streams or storm sewers. This material is a concentrated dye/pigment. Small quantities in contaminated water solutions will color large volumes.

Section 7. Handling and Storage

- Handling:** Avoid breathing fumes. General mechanical ventilation can be expected to effectively remove and prevent build up of any vapor or mist generated from handling this product in a closed environment. Protect eyes to prevent contact. Avoid prolonged or repeated exposure to skin.
- Storage:** Keep container in a dry place inaccessible to children and pets at temperatures above freezing. Keep containers sealed until ready for use.

Section 8. Exposure Control/Personal Protection

- Engineering controls:** General mechanical ventilation can be expected to effectively remove and prevent build up of any vapor or mist generated from handling this product in a closed environment.
- Personal Protection:**
- Eyes:* Wear safety glasses with side shields. Wear additional eye protection such as chemical goggles or face shield if splashing or spraying hazard exists. Have an eye wash station available.
 - Body:* To prevent skin contact wear coveralls, apron, boots, or lab coat.
 - Hands:* Avoid skin contact by using chemically resistant gloves.
 - Respiratory:* No respiratory protection required under normal conditions of use. Use local exhaust to control excessive vapors/mists. If excessive vapors or mists persist use appropriate NIOSH/MSHA approved organic vapor/mist respirator.
- Other:** Open wounds or skin surface disruptions should be covered with a chemical resistant patch to minimize absorption risks. Clean clothing should be worn daily to avoid possible long-term build up of the product leading to chronic overexposure.

Section 9. Physical and Chemical Properties

Odor	Slight odor	Vapor Density	Heavier than air
Color	Dark Green	Evaporation Rate	Slower than ether
Physical state	Liquid	Specific Gravity (H₂O = 1)	~ 1.3 g/mL
pH	7-8	Solubility	Dispersible
Melting/Freezing Point	NA		

Section 10. Stability and Reactivity

- Chemical Stability:** This material is chemically stable under normal storage and handling conditions.
- Hazardous Decomposition:** When involved in a fire, burning may evolve noxious fumes which may include carbon monoxide, carbon dioxide, nitrous oxides, acetic acid, or other toxic compounds depending on the chemical composition and combustion conditions. However, all of the water must be driven off first for this to occur.
- Hazardous Polymerization:** Is not known to occur.
- Incompatibility (Materials to Avoid):** Mineral acids (i.e., sulfuric, phosphoric, etc); alkalis (i.e. sodium or potassium hydroxide, etc.), strong oxidizing agents, high heat sources, sparks, open flames.

Section 11. Toxicological Information

Chronic Toxicity: None known
Mutagenic Effects: None known
Teratogenic Effects: None known
Developmental Toxicity: None known

Acute Effects on Humans: May cause skin, eye, and respiratory irritation.

Sensitization: Repeated or prolonged exposure to the substance at concentration above the exposure limits may cause respiratory tract and lung sensitization.

Carcinogenic Effects: This material is not known to cause cancer in animals or humans.

Existing Medical Conditions Aggravated By Exposure: May provoke asthmatic response in persons with asthma who are sensitive to airway irritants.

Section 12. Ecological Information

Ecotoxicity: No data available, however the material is not expected to have any deleterious toxic effect.

Environmental Fate: No data available regarding the environmental fate or biodegradation.

Section 13. Disposal Considerations

EPA Waste Number: Non-hazardous waste

Treatment: Dispose of according to all federal, state/provincial and local environmental regulations.

Section 14. Transport Information

D.O.T. Classification: Not regulated

IMO/IMDG Classification: Not regulated

Classification:

IATA Classification: Not regulated

Section 15. Regulatory Information

US Federal Regulations:

SARA Superfund Amendment and Reauthorization Act

EPCRA Emergency Planning & Community Right-to-Know Act

Section 302 Extremely Hazardous Substances None of the chemicals in this product are listed.

Acute: No

Chronic: No

Section 311 and 312 Hazards *Fire:* No

Pressure: No

Reactive: No

Section 313 Toxic Chemical Release Inventory	No reportable quantities of toxic chemical(s) subject to the reporting requirements of Section 313 of SARA Title III and of 40 CFR 372 are present.
CERCLA Hazardous substances	None of the chemicals in this product have an RQ.
Clean Air Act	This material does not contain any hazardous air pollutants, nor any Class 1, 2 ozone depletors.
Clean Water Act	None of the chemicals in this product are listed as Hazardous Substances, Priority or Toxic Pollutants under the CWA.
California Proposition 65 Carcinogens & Reproductive Toxicity (CRT) List:	None of the chemicals in this product are known in the State of California to cause cancer or birth defects
OSHA Regulatory Status:	This product is not considered hazardous under the OSHA Hazard Communication Standard (29CFR 1910.1200).

Regulatory Listings

US TSCA (Toxic Substances Control Act)	All ingredients are listed or exempt from the requirement.
Canada	All ingredients of this product are listed on Canada's Domestic Substance List.

Section 16. Other Information

Hazardous Material Information System:

Health	1
Flammability	0
Physical Hazard	0
Personal Protection	X

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Prepared By:	GF

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