



PLANT LIFE COMPANY

SAFETY DATA SHEET

TIGER'S EYE

1. Identification

Product name: Tiger's Eye
Other Identification: **Common name:** Mineral-Sulfuric Acid

Recommended use Turf & Horticultural-Water Treatment

Manufacturer & Distributor information
Corporate Office
Plant Life Company, LLC
335 E. Linton Blvd., #2227
Delray Beach, FL 33483 United States
Information: 1-888-502-5752
www.plantlifeco.com
info@plantlifeco.com
SDS Regulatory Department

Telephone

Website

E-mail

Contact person

Emergency phone number

1-800-424-9300

CCN725928

Call CHEMTREC Day or Night Within USA and Canada
Other Countries

or +1 703-527-3887 (collect calls accepted)
1-609-448-0935

2. Hazard(s) identification

Physical hazards

Health hazards

Corrosive. May cause severe burns
Acute toxicity, oral
Serious eye damage/eye irritation
Specific target organ toxicity, single exposure

Category 4
Category 2A
Category 3 respiratory tract irritation

Environmental hazards

OSHA defined hazards

Label elements

Hazardous to the aquatic environment, acute hazard
Not classified.

Category 2



Signal word

Hazard statement

Precautionary statement

Prevention

Response

Warning

Harmful if swallowed. Causes serious eye irritation. May cause respiratory irritation.

Use only outdoors or in a well-ventilated area. Avoid breathing mist or vapor. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear eye/face protection.

If swallowed: Call a poison center/doctor if you feel unwell. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a poison center/doctor if you feel unwell. Rinse mouth. If eye irritation persists: Get medical advice/attention.

Hazard(s) not otherwise classified (HNOC)

None known.

3. Composition/information on ingredients

Mixture

Chemical Name

Synonym Common Name

CAS Number

EINECS No.

Monocarbamidie dihydrogen sulfate (MCDS)

MCDS

21351-39-3

224-343-6

Salicylic Acid

Salicylic Acid

69-72-7

200-712-3

Surfactant Mixture

NJTSR JC2403



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4. First-aid measures

Inhalation	Remove victim from contaminated atmosphere. If breathing is labored, administer oxygen. If breathing has ceased, clear airway and start CPR. Obtain medical attention. This product contains no free sulfuric acid. However, end users should examine whether inorganic mists containing sulfuric acid may be formed and generated under their particular conditions of use.
Skin Contact	Corrosive. May cause severe burns. Immediately flush with large quantities of water. Remove contaminated clothing under a safety shower. Continued rinsing. Obtain medical attention if irritation occurs.
Eye Contact	Immediately flush eyes with plenty of water for at least 15 minutes. Continue rinsing. Remove contact lenses, if present and easy to do. If eye irritation persists: Get medical advice/attention.
Ingestion	Do not induce vomiting. Careful removal of the substance from the stomach by medical personnel is required. Call a physician or poison control center immediately. Get immediate medical attention. If tolerated, give no more than 1 cup of milk or water to rinse the mouth and throat and dilute the stomach contents. No more than 8 ounces (1 cup) in adults and 4 ounces (1/2 cup) in children is recommended to minimize the risk of vomiting.
Most important symptoms/effects, acute and delayed	Irritation of eyes and mucous membranes.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Keep victim warm. In case of shortness of breath, give oxygen. Keep victim under observation. Symptoms may be delayed.
General information	Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

5. Fire-fighting measures

Flammable Properties:	NFPA: Health - 0 Flammability - 0 Reactivity - 0
Suitable extinguishing media	Not flammable, use media suitable for combustibles involved in fire.
Unsuitable extinguishing media	Not applicable.
Specific hazards arising from the chemical	May vigorously decompose under high temperature conditions (>230° F, >100° C) releasing carbon dioxide gas. Small quantities of carbon dioxide will be released under normal storage conditions. If material is exposed to prolonged heat in a fire, oxides of carbon, nitrogen and sulfur may be formed.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire. Move containers from fire area if you can do so without risk. Keep containers/storage vessels in fire area cooled with water spray.
Fire-fighting equipment/instructions	Container rupture may occur under fire conditions or when heated if not adequately vented. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Responders should consider the need for evacuation based on concentrations of emitted decomposition products. Flammable hydrogen gas may be produced on prolonged contact with metals such as aluminum, tin, lead and zinc. Contain fire water for treatment prior to disposal.
Specific methods	
General fire hazards	

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep people away from any upwind of spill/leak. Keep out of low areas. Keep unnecessary personnel away. Wear appropriate personal protective equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
Environmental precautions	Avoid release to the environment. Contact local authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground.
Methods and materials for containment and cleaning up	Stop the flow of material, if this is without risk. Large Spills: Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. Never return spills in original containers for re-use. For waste disposal, see section 13 of the SDS.

7. Handling and storage

Precautions for safe handling	Do not taste or swallow. Avoid breathing mist or vapor. Avoid contact with eyes. Provide adequate ventilation. Wear appropriate personal protective equipment. When using, do not eat, drink or smoke. Observe good industrial hygiene practices. Wash hands thoroughly after handling. Avoid release to the environment. Do not empty into drains.
Conditions for safe storage, including any incompatibilities	Store locked up. Store in original tightly closed container. Store in a cool, dry place out of direct sunlight. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits	No exposure limits noted for ingredient(s).
Biological limit values	No biological exposure limits noted for ingredient(s).
Appropriate engineering controls	Provide eyewash station.
Individual protection measures, such as personal protective equipment	
Eye/face protection	Wear eye/face protection. Wear safety glasses with side shields (or goggles).
Skin protection	
Hand protection	For prolonged or repeated skin contact use suitable protective gloves.
Other	Wear suitable protective clothing. Wash contaminated clothing prior to reuse.
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment.
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.
General hygiene considerations	When using, do not eat, drink or smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.



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9. Physical and chemical properties

Appearance (physical state, color, etc)	Clear liquid
Odor	Odorless
Odor threshold	Not available.
pH	<1
Melting point/freezing point	32 °F (0° C) (Typical)
Initial boiling point and boiling range	222°F (106°C)
Flash point	Not available.
Evaporation rate	Not determined
Flammability (solid, gas)	Not applicable
Upper/lower flammability or explosive limits	Not applicable
Vapor pressure	Not available.
Vapor density	Not available.
Relative density	12.7 lbs/gal (1.52 kg/L)
Solubility	Complete
Solubility (water)	100%
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Data not available
Viscosity	1-10 CPS @ 21°C
Other information	
Shelf life	> 2 years

10. Stability and reactivity

Reactivity	Avoid interaction with heat (flames), oxidizers, acids or alkalis (see details below in this section).
Chemical stability	Material stable under normal conditions.
Possibility of hazardous reactions	Reactive or incompatible with nitrates, hydrochlorites, sulfides, alkaline materials and many metals. Toxic of flammable gases may be formed, or unacceptable corrosion may result. Do not mix with UAN solutions.
Conditions to avoid	Temperatures above 120° F (49° C) and below 32° F (0° C)
Conditions to avoid Corrosivity	Extremely corrosive to copper, aluminum, zinc. Corrosive to mild steel, especially when diluted. Corrosive to 304 stainless steel. Slightly corrosive to 316 stainless steel. Incompatible with nylon or nylon blends. Acceptable materials of construction are fiberglass, CPVC, polyethylene, polypropylene or 316L stainless steel. Consult metallurgical specialist to ensure compatibility with handling equipment and for periodic inspection of metallic components.

11. Toxicological information

Information on likely routes of exposure	
Oral	Not determined
Inhalation	Not determined
Skin contact	Not determined
Eye contact	Not determined
Chronic/Carcinogenicity:	Not listed in NTP, IARC or by OSHA.
Teratology:	Data not available.
Reproduction:	Data not available.
Mutagenicity:	Data not available.



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12. Ecological information

Ecotoxicity	Data not available
Persistence and degradability	Urea, sulfuric acid, ammonium, nitrate and sulfate salts and carbon dioxide.
Bioaccumulative potential	This product is not bioaccumulative.
Mobility in soil	Not determined
Other adverse effects	Not determined

13. Disposal considerations

Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. This material and its container must be disposed of as hazardous waste. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. Transport information

DOT	Corrosive liquid, N.O.S. (monocarbamide dihydrogen sulfate)
IATA	Not regulated as dangerous goods.
IMDG	Not regulated as dangerous goods.

Note: DOT Corrosive to aluminum. Not regulated if transported by motor vehicle or railcar in packaging that will not react dangerously or be degraded by this material 49GFR 173.154(D).

15. Regulatory information

US federal regulations	This product meets the criteria of the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)	Not regulated.
CERCLA Hazardous Substance List (40 CFR 302.4)	Not listed.
SARA 304 Emergency release notification	This product contains no Reportable Quantity (RQ) substances. However, since spilled material may react with water to Release sulfuric acid, an effective RQ of 2040 lbs. (161 gal) should be applied in the event of a spill.
Hazard categories	Immediate Hazard - Yes Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No
SARA 302 Extremely hazardous substance	Not listed.
Other federal regulations	
OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)	Hazardous by definition.
Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List	Not regulated.
Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)	Not regulated.
Safe Drinking Water Act (SDWA)	Not regulated.

16. Other information, including date of preparation or last revision

Issue date	6/1/2015
Revision date	2/21/2017
Version #	1

Disclaimer
While the information contained herein is presented in good faith and believed to be accurate, it is provided for your guidance only. Because many factors may affect processing or application, we recommend that you make tests to determine the suitability of a product for your particular purpose prior to use. No warranties of any kind, either expressed or implied, including warranties of merchantability or fitness for a particular purpose, are made regarding products described or information set forth, or that the products, or information may be used without infringing the intellectual property rights of others. In no case shall the information provided be considered a part of our terms and conditions of sale. Further, you expressly understand and agree that the information furnished by our company hereunder is given gratis and we assume no obligation or liability for the information given or results obtained, all such being given and accepted at your risk.

Revision Information
Composition / Information on Ingredients: Ingredients
Physical & Chemical Properties: Multiple Properties