



ULTRA GRO
Ag is Life

ULTRA GRO, LLC
SAFETY DATA SHEET

DATE PREPARED: 9/7/2018

CURRENT AS OF: 9/7/2018

SECTION 1: PRODUCT / SUPPLIER IDENTIFICATION

PRODUCT NAME: ULTRA GRO 0-0-0-5.5(Ca)-9.5(S) Thio Plex

PRODUCT USE: FERTILIZER

MFR INFO: Ultra Gro, LLC
1043 S. Granada Drive
Madera, CA 93637

FOR EMERGENCY: (559) 661-0977
CHEMTREC: (800) 424-9300

SECTION 2: HAZARDS IDENTIFICATION

HAZARD SYMBOLS / STATEMENTS:

2.1	Health	None
2.2	Physical	None
2.3	Not applicable	
2.4	Not applicable	
2.5	Not applicable	
2.6	None	
2.7	None	

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Ingredients: (See Section 8 for exposure guidelines)

CHEMICAL	SYNONYM	CAS NUMBER	EINECS No.	% by Wt.
Thiosulfuric acid (H ₂ S ₂ O ₃) calcium salt	Calcium thiosulfate	10124-41-1	233-333-7	20-30
Water	Water	7732-18-5	231-791-2	Remaining %

SECTION 4: FIRST AID MEASURES

- 4.1 Symptoms/Effects:**
Acute: Eye contact may cause eye irritation. Repeated or prolonged skin contact may cause skin irritation. Ingestion may irritate the gastrointestinal tract.
Chronic: No known chronic effects.
- 4.2 Eyes:** Immediately flush with large quantities of water for 15 minutes. Hold eyelids apart during irrigation to ensure thorough flushing of the entire area of the eye and lids. Obtain medical attention if irritation occurs.
- 4.3 Skin:** Immediately flush with large quantities of water. Remove contaminated clothing under a safety shower. Continue rinsing. Obtain medical attention if irritation occurs.
- 4.4 Ingestion:** If victim is conscious, give 2 to 4 glasses of water and induce vomiting by touching finger to back of throat. Obtain medical attention if irritation occurs.
- 4.5 Inhalation:** Remove victim from contaminated atmosphere. If breathing is labored, administer Oxygen. If breathing has ceased, clear airway and start CPR. Obtain medical attention.

SECTION 5: FIREFIGHTING MEASURES

- 5.1 Flammable Properties:** (See sect. 9, for additional flammable properties)
NFPA: **Health-1** **Flammability-0** **Reactivity-0**
- 5.2 Extinguishing Media:**
- 5.2.1 Suitable Extinguishing Media:** Not flammable, use media suitable for combustibles involved in fire.
- 5.2.2 Unsuitable Extinguishing Media:** None known
- 5.3 Protection of Firefighters:**
- 5.3.1 Specific Hazards Arising from the Chemical:**
Physical Hazards: Heating (flames) of closed or sealed containers may cause violent rupture of container due to thermal expansion of compressed gases.
Chemical Hazards: Heating causes release of oxides of sulfur. Sulfur dioxide is highly irritating to the eyes, respiratory tract and moist skin.
- 5.3.2 Protective Equipment and Precautions for Firefighters:** Firefighters should wear self-contained breathing apparatus (SCBA) and full fire-fighting turnout gear.
Keep containers/storage vessels in fire area cooled with water spray.

SECTION 6: ACCIDENTAL RELEASE MEASURES

- 6.1 Personal Precautions:** Use personal protective equipment specified in Section 8. Isolate the hazard area and deny entry to unnecessary untrained and unprotected personnel.
- 6.2 Environmental Precautions:** Keep out of "waters of the United States" because of potential aquatic toxicity. This product is a non-hazardous liquid fertilizer solution designed to supply Calcium and Sulfur to crops.
- 6.3 Methods of Containment:**
Small Release: Confine and absorb small releases with sand, earth or other inert absorbents.
Large Release: Shut off release if safe to do so. Dike spill area with earth, sand or other inert absorbents to prevent runoff in surface waterways (potential aquatic toxicity), storm drains and sewers.
- 6.4 Methods of Cleanup:**
Small Release: Shovel up the absorbed material and place in drums for disposal as a chemical waste or recycle as a fertilizer as the original product was intended.
Large Release: Recover as much of spilled product as possible using portable pump and hoses. Use material as originally intended or dispose of as a chemical waste. Treat remaining product as small release (above).

SECTION 7: HANDLING AND STORAGE

- 7.1 Handling:** Avoid contact with eyes. Use only in a well-ventilated area. Wash thoroughly after handling. Avoid prolonged or repeated contact with the skin.
- 7.2 Storage:** Store in well-ventilated area. Do not store combustibles in the area of storage vessels. Keep away from any sources of heat or flame. Store totes and smaller containers out of direct sunlight at moderate temperatures. (See section 10.5 for materials of construction.)

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Exposure Guidelines:

Chemical	OSHA PELs		ACGIH TLVs	
	TWA	STEL/C	TWA	STEL
Thiosulfuric acid (H ₂ S ₂ O ₃) calcium salt	None	None	None	None
Water	None	None	None	None

- 8.2 Engineering Controls:** Keep eye wash/safety showers in the areas where product is commonly used.
- 8.3 PERSONAL PROTECTIVE EQUIPMENT (PPE)**
8.3.1 Eye/Face Protection: Chemical goggles and a full face shield.
8.3.2 Skin Protection: Neoprene rubber gloves and apron should be worn to prevent repeated or prolonged contact with the liquid. Wash contaminated clothing prior to reuse.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION cont.

8.3.3 Respiratory Protection: None required. If conditions exist where mist may be generated, a NIOSH/MSHA approved mist respirator should be worn.

8.3.4 Hygiene Considerations: There are no known hazards associated with this product when used as recommended, however common good industrial hygiene practices should be followed, such as washing thoroughly after handling and before eating or drinking.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1	Appearance:	Colorless liquid
9.2	Odor:	Fresh concrete to no odor
9.3	Odor Threshold:	Not determined
9.4	pH:	6.5-8.0 (typical)
9.5	Melting/Freezing Point:	Salt-out temperature 32F(oC) (typical)
9.6	Boiling Point:	212 F (100C) with decomposition
9.7	Flash Point:	Not applicable
9.8	Evaporation Rate:	Not determined
9.9	Flammability:	Not applicable
9.10	Upper/Lower Flammability Limit:	Not applicable
9.11	Vapor Pressure:	37mm Hg @ 100 F
9.12	Vapor Density:	Same as water
9.13	Relative Density:	1.25-1.26 (10.5 lbs/gal) Typical
9.14	Solubility:	Complete
9.15	Partition Coefficient:	Data not available
9.16	Auto-Ignition Temperature:	Not applicable
9.17	Decomposition Temperature:	Data not available
9.18	Viscosity:	2.11 cSt @25 C

SECTION 10: STABILITY AND REACTIVITY

- 10.1** **Reactivity:** Avoid interaction with heat, flames, oxidizers or acids.
- 10.2** **Chemical Reactivity:** This is a stable product under normal (ambient) temperature and pressure.
- 10.3** **Possibility of Hazardous Reactions:** Strong oxidizers such as nitrates, nitrites or chlorates can cause explosive mixtures if heated to dryness.
- 10.4** **Conditions to Avoid:** High heat or fire conditions.
- 10.5** **Incompatible Materials:** Strong oxidizers (See Section 10.3). Acids will cause the release of Sulfur dioxide, a severe respiratory hazard. **This product is not compatible with; carbon steel copper or zinc or any of their alloys including brass, bronze or galvanized materials.** These materials should not be utilized in handling systems or storage containers for this product.

SECTION 10: STABILITY AND REACTIVITY cont.

- 10.6** **Hazardous Decomposition Products:** Calcium oxide and Oxides of Sulfur.
Sulfur dioxide is a severe respiratory irritant.

SECTION 11: TOXICOLOGICAL INFORMATION

- | | | |
|-------------|---------------------------------|--|
| 11.1 | Oral: | Oral Rat (female) LD50:>2,000 mg/Kg (OECD 425) |
| | 11.1.1: | Interperitoneal Rat LD lo: 573 mg/Kg (calcium thiosulfate) |
| | 11.1.2: | Intravenous Rat LD lo:344 mg/Kg (calcium thiosulfate) |
| | 11.1.3: | Intraperitoneal Mouse LD 50: 115 mg/Kg (calcium thiosulfate) |
| 11.2 | Dermal: | No data available |
| 11.3 | Inhalation: | No data available |
| 11.4 | Eye: | No data available |
| 11.5 | Chronic/Carcinogenicity: | Not listed in NTP, LARC or OSHA |
| 11.6 | Teratology: | No data available |
| 11.7 | Reproduction: | No data available |
| 11.8 | Mutagenicity: | No data available |

SECTION 12: ECOLOGICAL INFORMATION

This product is not known to be ecotoxic, persistent, or have the potential to bioaccumulate.

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of in accordance with all national, regional / state, and local regulations. Reuse recovered product where possible.

SECTION 14: TRANSPORT INFORMATION

This product is not regulated as a transportation hazard.

SECTION 15: REGULATORY INFORMATION

SARA SECTION 311 / 312 HAZARD CATEGORY: IMMEDIATE HAZARD

SECTION 16: OTHER INFORMATION

Revisions: This SDS was reformatted to comply with the new Hazard Communication Standard dated September 7, 2018.

PREPARED BY: Ultra Gro, LLC

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