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**SECTION 1: Identification**

**1.1 GHS Product identifier**

Product name Thio Plex™

**1.2 Other means of identification**

Ultra Gro 0-0-0-5.5(Ca)-9.5(S)  
0-0-0-5.5Ca-9.5S

**1.3 Recommended use of the chemical and restrictions on use**

Fertilizer for commercial agricultural and horticultural use fertilizer.

**1.4 Supplier's details**

Name Ultra Gro LLC  
Address 1043 S Granada Ave  
Madera CA 93637  
USA  
Telephone 559.661.0977  
Email office@ultragro.com

**1.5 Emergency phone number**

1-800-424-9300 - CHEMTREC - U.S. Canada, Puerto Rico - 24 Hrs

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**SECTION 2: Hazard identification**

**General hazard statement**

NOT hazardous according to the criteria of the Globally Harmonised System of Classification and Labelling of Chemicals (GHS)

**2.1 Classification of the substance or mixture**

**GHS classification by OSHA (29 CFR 1910.1200, 2012)**

Not a hazardous substance or mixture.

**2.2 GHS label elements, including precautionary statements**

Not a hazardous substance or mixture.

**2.3 Other hazards which do not result in classification**

Not a hazardous substance or mixture.

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**SECTION 3: Composition/information on ingredients**

**3.2 Mixtures**

**Hazardous components**

**1. Thiosulfuric acid (H<sub>2</sub>S<sub>2</sub>O<sub>3</sub>), calcium salt (1:1)**

Concentration 10 - 30 % (weight)  
EC no. 233-333-7  
CAS no. 10124-41-1

**2. Water**

Concentration 30 - 60 % (weight)  
EC no. 231-791-2  
CAS no. 7732-18-5

**3. UG Proprietary Blend of Non-Hazardous Ingredients**

Concentration 5 - 10 % (weight)

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**SECTION 4: First-aid measures**

**4.1 Description of necessary first-aid measures**

If inhaled, remove the victim to fresh air and keep the victim at rest comfortably for breathing. If respiratory symptoms persist, get medical advice/attention.

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In case of skin contact	Remove and isolate contaminated clothing and shoes. Immediately flush skin and hair with running water (and soap if available). If skin irritation occurs, get medical advice/attention. Wash contaminated clothing and shoes before reuse.
In case of eye contact,	immediately flush your eyes with running water for several minutes, holding your eyelids open and occasionally lifting your upper and lower lids. Remove contact lenses if present and easy to do. Continue rinsing for at least 15 minutes. If eye irritation persists, get medical advice/attention.
If swallowed,	Rinse mouth with water. Do not induce vomiting. Get medical advice/attention if you feel unwell.

#### 4.2 Most important symptoms/effects, acute and delayed

The most important known symptoms and effects are described in the labeling (see section 2.2) and/or in section 11

#### 4.3 Indication of immediate medical attention and special treatment needed, if necessary

No data available

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### SECTION 5: Fire-fighting measures

#### 5.1 Suitable extinguishing media

Use media suitable for surrounding fire. No special media is required.

#### 5.2 Specific hazards arising from the chemical

It decomposes on heating and may produce toxic/irritating fumes, including sulfur oxides.

#### 5.3 Special protective actions for fire-fighters

Wear positive pressure self-contained breathing apparatus (SCBA). Structural firefighters' protective clothing will only provide limited protection.

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### SECTION 6: Accidental release measures

#### 6.1 Personal precautions, protective equipment, and emergency procedures

Contain material and place it in containers for use as intended or discard according to federal, state, and local regulations.

#### 6.2 Environmental precautions

Prevent spilled material from entering storm drains or water bodies. If material enters a waterway, notify the appropriate authorities.

#### 6.3 Methods and materials for containment and cleaning up

Avoid contamination with potent oxidizing agents, as ignition may result. Expansion or decomposition on heating may lead to violent rupture of containers.

#### Reference to other sections

Wear PPE according to Section 8

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### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

Wash hands after handling the material. Do not eat, drink, or smoke while handling the material. Avoid breathing vapors/mists. Not intended for human consumption.

#### 7.2 Conditions for safe storage, including any incompatibilities

Do not store food or feedstuffs. Store in a cool, dry, well-ventilated area away from incompatible materials.

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### SECTION 8: Exposure controls/personal protection

#### 8.2 Appropriate engineering controls

A local and/or general exhaust system is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion into the general work area.

#### 8.3 Individual protection measures, such as personal protective equipment (PPE)

##### Eye/face protection

Safety glasses with side shields, goggles, or face shields.

##### Skin protection

Appropriate for the task. Impervious and compatible with material.

##### Body protection

Eye/face protection: Wear appropriate eye protection to avoid eye contact. Recommended: Safety glasses with side shields or, as required, chemical goggles.-

Hand protection: Handle with gloves. Recommended: Wear chemical protective gloves, e.g., PVC.- Skin/body protection: Wear appropriate personal protective clothing to avoid skin contact. Recommended: Overalls. Wear safety footwear or Rubber boots.

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### Respiratory protection

NIOSH-approved respirator, if required. Use with adequate ventilation- Respiratory protection: In case of inadequate ventilation, wear respiratory protection. Recommended: Particulate (refer to AS/NZS 1715 & 1716).

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## SECTION 9: Physical and chemical properties

### Basic physical and chemical properties

Physical state	Liquid
Appearance	Brown liquid
Color	Brown
Odor	Fresh concrete to no odor
The odor threshold	is Not Determined
Melting point/freezing point	Not Determined
The boiling point or initial boiling point and boiling range	are Not Determined
Flammability	Non-flammable
Lower and upper explosion limit/flammability limit	Not Determined
Flash point	Not Determined
Auto-ignition temperature	Not Determined
Decomposition temperature	Not Determined
pH	6.5 - 8.0
Kinematic viscosity	Not Determined
Solubility	Soluble
Partition coefficient n-octanol/water (log value)	Not determined
Vapor pressure	Not Determined
The evaporation rate	is Not Determined
Density and/or relative density	1.25
Relative vapor density	Not determined

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

The product is stable.

### 10.2 Chemical stability

This is a stable product under normal (ambient) temperature and pressure.

### 10.3 Possibility of Hazardous Reactions

Reactivity: Avoid interaction with heat, flames, oxidizers, or acids.

### 10.4 Conditions to avoid

Heat

### 10.5 Incompatible materials

Strong acids, bases, oxidizers, soft metals, and alloys

### 10.6 Hazardous decomposition products

Toxic oxides/fumes and ammonia.

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Water: In the event of fire: see section 5

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## SECTION 11: Toxicological information

### Information on toxicological effects

#### Acute toxicity

Oral Rat (female) LD50:>2,000 mg/Kg (OECD 425)  
Intraperitoneal Rat LD lo: 573 mg/Kg (calcium thiosulfate)  
Intravenous Rat LD lo:344 mg/Kg (calcium thiosulfate)  
Intraperitoneal Mouse LD 50: 115 mg/Kg (calcium thiosulfate)

#### Skin corrosion/irritation

Prolonged exposure may cause skin irritation and a burning sensation.

#### Severe eye damage/irritation

Mist may cause eye irritation.

#### Respiratory or skin sensitization

It is not usually a hazard due to the non-volatile nature of the product. Mist may cause throat/respiratory irritation.

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### Germ cell mutagenicity

Long-term exposure to the product is not considered a germ cell mutagen.

### Carcinogenicity

Long-term exposure to the product is not thought to be a carcinogen.

### Reproductive toxicity

Long-term exposure to the product is not thought to cause reproductive harm.

### Summary of evaluation of the CMR properties

Long-term exposure to the product is not thought to produce chronic adverse health effects.

### Specific target organ toxicity (STOT) - single exposure

Not Established

### Specific target organ toxicity (STOT) - repeated exposure

Not Established

### Aspiration hazard

It may be harmful if swallowed and enters the airways.

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## SECTION 12: Ecological information

### Toxicity

Calcium thiosulphate:- LC50, Fish (*Lepomis macrochirus*): 510 mg/l (96 h)  
EC50, Crustacea (*Daphnia magna*): 230 mg/l (48 h)  
EC50, Algae/aquatic plants (*Pseudokirchneriella subcapitata*): >100 mg/l (72 h)

### Persistence and degradability

No information is available.

### Bioaccumulative potential

Not bioaccumulative.

### Mobility in soil

It will likely be mobile in the environment due to its water solubility.

### Results of PBT and vPvB assessment

No information is available.

### Endocrine disrupting properties

No information is available.

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## SECTION 13: Disposal considerations

### Disposal methods

#### Product disposal

Use product for intended purpose where possible. Dispose of by all national, regional / state, and local regulations.

#### Packaging disposal

Use product for intended purpose where possible. Dispose of by all national, regional / state, and local regulations.

#### Waste treatment

Do not allow material to enter waterways, storm drains, or sewage treatment systems.

#### Sewage disposal

Dispose of by all national, regional / state, and local regulations.

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## SECTION 14: Transport information

14.1	UN Number	None
14.2	UN Proper Shipping Name	None
14.3	Transport hazard class(es)	None
14.4	Packing group	None
14.5	Environmental hazards	None
14.6	Special precautions for user	None
14.7	Transport in bulk according to IMO instruments	None

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## SECTION 15: Regulatory information

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### 15.1 Safety, health, and environmental regulations specific to the product in question

#### US EPA TSCA public inventory

Chemical name: Thiosulfuric acid (H<sub>2</sub>S<sub>2</sub>O<sub>3</sub>), calcium salt (1:1)  
CAS number: 10124-41-1

#### SARA 302 Components

No chemicals in this material [Water] are subject to the reporting requirements of SARA Title III, Section 302.

#### SARA 313 Components

This material [Water] does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

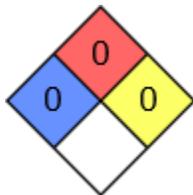
#### SARA 311/312 Hazards

No SARA Hazards for Water.

#### HMIS Rating

UG Thio Plex	
HEALTH	0
FLAMMABILITY	0
PHYSICAL HAZARD	0
PERSONAL PROTECTION	A

#### NFPA Rating



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### SECTION 16: Other information

#### 16.1 Further information/disclaimer

The information and data contained herein are based upon facts considered correct as of the date. Information is supplied upon the condition that the persons receiving it will determine its suitability for their purposes before use. In no event will Ultra Gro, LLC be responsible for damages resulting from the use or reliance upon this information. No representations or warranties, expressed or implied, of merchantability, fitness for a particular purpose, or of any other nature are made hereunder concerning information or the product to which this information refers.