

ULTRA GRO, LLC  
MATERIAL SAFETY DATA SHEET

Emergency Phone: (559) 661-0977  
CHEMTREC: (800) 424-9300

MSDS Reference: ULTRA GRO, LLC (Rev. 12-16-08)

**I. PRODUCT:** ULTRA GRO THIO PLEX

**II. COMPOSITION:**

Chemical	CAS#	Concentration	Regulated
Calcium Thiosulfate	10124-41-1	24% W/W	No
A Solution of $\text{CaS}_2\text{O}_3$ in water			
SYNONYMS: Thiosulfuric Acid ( $\text{H}_2\text{S}_2\text{O}_3$ calcium salt [1:1], Thiosulfuric Acid calcium salt [1:1])			
CHEMICAL FAMILY: Inorganic salt			

**III. HAZARDOUS IDENTIFICATION:**

<b>CERCLA Ratings (0-3):</b> Health=0	Fire=0	Reactivity=0	Persistence=0
<b>NEPA Ratings (0-4):</b> Health=0	Fire=0	Reactivity=0	

**POTENTIAL SHORT-TERM HEALTH EFFECTS:**

**Skin contact:** May Cause Irritation      **Eye Contact:** May Cause Irritation

**Ingestion:** No information available on significant adverse effects.

**LONG-TERM HEALTH EFFECTS:** No information on long-term effects is available.

**CARCINOGEN STATUS:** OSHA-N      NTP-N      LARC-N  
NO HAZARDOUS INGREDIENTS ARE CONTAINED IN THIS PRODUCT

**IV. PHYSICAL AND CHEMICAL CHARACTERISTICS:**

**DESCRIPTION:** Light Brown

Molecular Weight: 152.20

Molecular formula for active ingredient  $\text{CaS}_2\text{O}_3$

Melting Point: N/A

Specific Gravity: 1.255

Vapor pressure: (mm Hg) N/A

Water Solubility: Completely soluble  
in water

Solvent Solubility: Nearly insoluble in  
alcohol

pH: 6.5-8.5

**V. FIRE AND EXPLOSION HAZARD:**

Negligible hazard when exposed to heat or flame

**EXTINGUISHING MEDIA:** Extinguish using agent suitable for type of surrounding fire.

**FIRE FIGHTING:** No acute hazard. Move container from fire area if possible. Avoid breathing vapors.  
Keep upwind.

Use agents suitable for type of surrounding fire. Avoid breathing hazardous vapors. Keep upwind.

**HAZARDOUS COMBUSTION PRODUCTS:** Thermal decomposition products may include toxic oxides of sulfur.

## VI. REACTIVITY:

Stable under normal temperatures and pressures.

**CONDITIONS TO AVOID:** No reports found.

**INCOMPATIBILITIES:** No data available.

**HAZARDOUS DECOMPOSITION:** Thermal decomposition products may include toxic oxides of sulfur.

**POLYMERIZATION:** Hazardous polymerization has not been reported.

**INCOMPATIBILITIES:** Reacts with acid to form sulfur dioxide. Corrosive to brass, copper and aluminum.

## VII. OCCUPATION EXPOSURE LIMITS:

No occupational exposure limits established by OSHA, ACGIH, or NIOSH.

### FOR FIRE FIGHTING AND OTHER IMMEDIATELY DANGEROUS TO LIFE OR HEALTH CONDITIONS:

Use any self contained breathing apparatus that has a full face piece and is operated in a pressure-demand or other positive-pressure mode in combination with an auxiliary self-contained breathing apparatus operated in pressure-demand or other positive pressure mode.

## VIII. HEALTH INFORMATION:

### TOXICITY DATA:

Anhydrous  $\text{CaS}_2\text{O}_3$ : 374 mg/kg intravenous-rat LD 50; 573 mg/kg intraperitoneal-rat LD 50: 115 mg/kg intraperitoneal-mouse LD 50.

**CARCINOGEN STATUS:** None

**ACUTE TOXICITY LEVEL:** Insufficient data.

**TARGET EFFECTS:** No data available.

**SKIN CONTACT-ACUTE EXPOSURE:** No data available.

**EYE CONTACT - ACUTE EXPOSURE:** No data available. May be irritating.

**INGESTION-ACUTE EXPOSURE:** Thiosulfate salts are poorly absorbed from the alimentary tract.

Ingestion may result in a cathartic effect.

**CHRONIC EXPOSURE:** No data available for any type of exposure.

### TSCA STATUS: N

CERCLA SECTION 103 (40CFR 302.40): N

SARA SECTION 302 (40CFR 355.30): N

SARA SECTION 304 (40CFR 355.30): N

SARA SECTION 313 (40CFR 372.55): N

OSHA PROCESS SAFETY (29CFR 1910.119): N

CALIFORNIA PROPOSITION 65: N

### SARA HAZARD CATEGORIES, SARA SECTIONS 311/312 (40CFR 370.21)

**ACUTE HAZARD: N**

**CHRONIC HAZARD: N**

**FIRE HAZARD: N**

**REACTIVITY HAZARD: N**

**SUDDEN RELEASE HAZARD: N**

**IX. EMPLOYEE PROTECTION:**

**RESPIRATORY:** None generally required. If conditions exist where excessive mist might be generated, a mist respirator is recommended.

**CLOTHING:** Rubber gloves and apron should be used for prolonged or repeated contact. Safety glasses or chemical goggles are recommended to avoid eye contact. Do not wear contact lenses.

**ADDITIONAL PROTECTIVE MEASURES:** NIOSH approved self-contained breathing apparatus should be available to fire-fighters working in an area where this product is stored.

(See section: **VI: REACTIVITY**)

**X. FIRST AID MEASURES:**

**SKIN CONTACT:** Remove contaminated clothing and shoes and wash product from skin.

**EYE CONTACT:** Immediately flush eyes with clean water, lifting upper and lower lids, for at least 15-20 minutes. Obtain medical attention if irritation occurs or persists.

**INGESTION:** If vomiting occurs, keep head lower than hips to help prevent aspiration. Treat symptomatically and supportively. Get medical attention if needed.

**NOTE TO PHYSICIAN-ANTIDOTE:** No specific antidote. Treat symptomatically and supportively.

**XI. ENVIRONMENTAL PROTECTION:**

Absorb small spills on sand, earth, sweeping compound or other inert absorbent. Dispose of in accordance with all government regulations. Large spills should be diked to prevent entry of large quantities of product into sewers or drains. Recover as much of solution as possible. Flush residue to soil with large quantities of water if permitted by applicable disposal regulation. Dispose of in accordance with applicable local, county, state, and federal regulations.

**XII. TRANSPORTATION REQUIREMENTS:**

Classification: Not Hazardous by D.O.T. Regulations

D.O.T. Proper Shipping Name

Other Requirements: N/A

**XIII. OTHER REGULATORY CONTROLS:**

**XIV. DISCLOSURE:**

While the information and recommendation contained herein are based on data which is believed to be correct, Ultra Gro, LLC makes no guarantee or warranty of any kind, expressed or implied, with respect to the information contained herein.

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