



# MATERIAL SAFETY DATA SHEET

## THIOCAL

Date of Issue: January 01, 2011

### 1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND SUPPLIER

Product Name: **THIOCAL**

Recommended Use: **fertiliser**

Supplier: **Campbells Fertilisers Australasia**

Address: **18 Raymond Road, Laverton North, Victoria, 3026**

Telephone: **(03) 9931 2211**

Facsimile: **(03) 9931 2201**

Website: **www.campbellsfert.com.au**

Emergency Telephone Number: **(03) 9931 2211 (business hours only 8.30 am to 5.00 pm)**

### 2. HAZARDS IDENTIFICATION

#### NON-HAZARDOUS SUBSTANCE - NON-DANGEROUS GOOD

Hazard Designation: **Non Hazardous according to the criteria of NOHSC**

Risk Phrases: **Not applicable**

Safety Phrases: **Not applicable**

ADG Classification: **This product is not classified as dangerous according to DOT regulations**

SUSDP Classification: **Not available**

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients:	CAS Number:	Proportion (%w/w):
<b><i>Components vary between products – see label for specific content information</i></b>		
Calcium Thiosulfate	10124-41-1	24%w/w
A solution of CaS <sub>2</sub> O <sub>3</sub> in water		
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### 4. FIRST AID MEASURES

***If exposed, concerned or if symptoms persist, get medical attention/advice. If medical advice is needed, have product container or label at hand.***

<b>Inhalation:</b>	Remove victim from contaminated area .If breathing is labored, administer oxygen .If breathing has ceased, clear the airway and begin mouth to mouth.
<b>Skin Contact:</b>	Immediately flush with large quantities of water, remove contaminated clothing and shoes and wash product from skin.
<b>Eye Contact:</b>	Immediately flush eyes with clean water, lifting upper and lower lids, for at least 15-20 minutes. Obtain medical attention if irritation occurs or persist.
<b>Ingestion:</b>	If vomiting occurs, keep head lower than hips to help prevent aspiration. Treat symptomatically and supportively. Get medical attention if needed.
<b>First Aid Facilities:</b>	Ensure washing facilities, including an eyewash, are available.
<b>Medical Personnel</b>	Treat symptomatically.

### 5. FIRE FIGHTING MEASURES

<b>Extinguishing Media:</b>	Extinguish using agent suitable for type of surrounding fire. CO <sub>2</sub> ,dry chemical foam, water spray
<b>Hazards from Combustion Products:</b>	Thermal decomposition products may include toxic oxides of sulphur.
<b>Precautions for Fire Fighters:</b>	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.

### 6. ACCIDENTAL RELEASE MEASURES

<b>Containment and Clean Up</b>	Absorb small spills with 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. On large spills, land application could be possible as long as application rates are not exceeded, please check with the local Ag Commissioner for permission. Dispose of in accordance with applicable local, county, state and federal regulations.
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### 7. HANDLING AND STORAGE

- Handling:** Do not heat drums with any welding equipment as explosion may occur. Avoid breathing gas. Do not get in eyes, on skin, or on clothing...
- Storage:** Store in a cool, dry place in properly designed vehicles.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

- Exposure Standards:** No occupational exposure limits have been established by OSHA, ACGIH, or NIOSH
- Engineering Controls:** Use in a well ventilated area
- Personal Protective Equipment:**  
*Eyes:* Safety glasses or chemical goggles are recommended to avoid eye contact. Do not wear contact lenses.  
*Gloves:* Rubber gloves and apron should be used for prolonged or repeated contact.  
 .  
*Other:* RESPIRATORY PROTECTION:  
 None generally required. If conditions exist where excessive mist might be generated, a mist respirator is recommended.  
 In case of emergency conditions such as fire, high heat, and or contact with acids, use a NIOSH / MSHA approved full-face respirator with SO<sub>2</sub> gas cartridge. Use positive pressure self-contained breathing apparatus for emergency or other conditions requiring a higher level of protection.
- Other Use Precautions:** PROTECTIVE EQUIPMENT SHOULD BE USED DURING THE FOLLOWING PROCEDURES:
- Manufacture or formation of this product
  - Repair and maintenance of contaminated equipment
  - Clean up of leaks and spills
  - Any other activity that may result in hazardous exposures..

### 9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance:** Clear colorless solution
- Odour:** Not available
- Vapour Pressure:** N/D
- Vapour Density:** Not applicable
- Boiling Point:** Not applicable
- Freezing/Melting Point:** Not applicable
- Solubility:** Completely soluble in water, nearly insoluble in alcohol
- Density:** Not available

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<b>pH:</b>	6.5-7.5
<b>Flash Point:</b>	Not available
<b>Flammability (explosive) Limits:</b>	Not available
<b>Auto-Ignition Temperature:</b>	Not available
<b>Octanol/Water Partition Coefficient:</b>	Not available

### 10. STABILITY AND REACTIVITY

<b>Chemical Stability:</b>	Stable under normal conditions and pressures.
<b>Hazardous Polymerisation:</b>	
<b>Conditions to Avoid:</b>	Avoid contacts with acids. Sulfur dioxide could be released if mixed with acids.
<b>Incompatible Materials:</b>	Reacts with acid to form sulphur dioxide. Corrosive to brass and copper.
<b>Hazardous Decomposition Products:</b>	

### 11. TOXICOLOGICAL INFORMATION

#### POTENTIAL HEALTH EFFECTS

<b>Inhalation:</b>	
<b>Skin contact:</b>	May be irritating
<b>Eye contact:</b>	May be irritating
<b>Ingestion:</b>	Thiosulfate salts are poorly absorbed from the alimentary tract. Ingestion may result in a cathartic effect.
<b>Other:</b>	
<b>Chronic:</b>	No data available for any type of exposure..

#### TOXICOLOGY

<b>Acute:</b>	Insufficient data for acute toxicity level.
<b>Oral Toxicity:</b>	Intravenous LD <sub>50</sub> (rat): Anhydrous CaS <sub>2</sub> O <sub>3</sub> :374mg/kg intravenous Intraperitoneal LD <sub>50</sub> (rat): 573mg/kg intraperitoneal Intraperitoneal LD <sub>50</sub> (mouse): rat LD <sub>50</sub> ;115mg/kg intraperitoneal
<b>Dermal Toxicity:</b>	Not available
<b>Inhalation Toxicity:</b>	Not available
<b>Skin Irritation:</b>	Not available
<b>Eye Irritation:</b>	Not available
<b>Sensitisation:</b>	Not available



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**Chronic:** No data available for any type of exposure.

### 12. ECOLOGICAL INFORMATION

Environmental  
Fate:  
Mobility:  
Persistence /  
Degradation:  
Ecotoxicological  
Information:

### 13. DISPOSAL CONSIDERATIONS

**Disposal of Waste Method:** All contaminated materials should be placed in disposable containers and buried in an approved dumping area. Follow all local rules governing waste disposal in your area.

**Contaminated Packaging:** Contaminated cleanup materials may be hazardous.

### 14. TRANSPORT INFORMATION

**UN Number:**  
**Proper Shipping Name:** Not hazardous by D.O.T. Regulations  
**Class and Subsidiary Risk:** .NA  
**Packing Group:**  
**EPG:**  
**Hazchem Code:**

### 15. REGULATORY INFORMATION

**SUSDP:**  
**APVMA:**  
**State Departments of Agriculture / Primary Industries:**  
**Australian Inventory of Chemical Substances (AICS):**



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### 16. OTHER INFORMATION

**Trademark  
Information:**

**Preparation  
Information:** Prepared by Campbells Fertilisers Australasia

**Data Sources:** Supplier MSDS

END OF MSDS