



# Safety Data Sheet

according to WHS Regulations

Printing date 06.12.2021

Revision: 06.12.2021

## 1 Identification

**Product Name:** OPTIFERT CALCIUM THIO

**Other Means of Identification:** Mixture

**Recommended Use of the Chemical and Restriction on Use:** Agricultural liquid fertiliser.

**Details of Manufacturer or Importer:**

Titan Ag Pty Ltd  
Princes Street Marina  
Suite 15/16 Princes Street  
Newport NSW 2106

**Phone Number:** 02 9999 6655

**Emergency telephone number:** 02 9999 6655

## 2 Hazard(s) Identification

**Hazardous Nature:**

Not classified as Hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) and Safe Work Australia criteria.  
Not classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition)  
The product is not classified, according to the Globally Harmonised System (GHS).

**Signal Word** None

**Hazard Statements** None

## 3 Composition and Information on Ingredients

**Chemical Characterization:** Mixtures

**Description:** Mixture of substances listed below with nonhazardous additions.

**Hazardous Components:** None

**Non Hazardous Components:**

CAS: 10124-41-1	Calcium Thiosulfate	20-30%
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## 4 First Aid Measures

**Inhalation:** If inhaled, remove to fresh air. Seek medical attention if breathing problems develop.

**Skin Contact:**

In case of skin contact, immediately remove contaminated clothing and wash affected areas with water and soap. Seek medical attention if symptoms occur.

**Eye Contact:**

In case of eye contact, rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical attention if symptoms occur.

**Ingestion:**

If swallowed, give plenty of water to drink. Induce vomiting if victim is conscious, keeping head below hips to prevent aspiration. Do not give anything by mouth to an unconscious person. Seek medical attention.

**Symptoms Caused by Exposure:**

Inhalation: May cause respiratory irritation.

Skin Contact: May cause skin irritation.

Eye Contact: May cause eye irritation.

Ingestion: May cause gastrointestinal irritation.

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### 5 Fire Fighting Measures

**Suitable Extinguishing Media:** Use fire extinguishing methods suitable to surrounding conditions.

**Specific Hazards Arising from the Chemical:**

Hazardous combustion products include calcium oxide and oxides of sulfur.

Product is not flammable.

Containers close to fire should be removed only if safe to do so. Use water spray to cool fire exposed containers.

Minimise run-off from fire fighting measures entering drains or water courses.

**Special Protective Equipment and Precautions for Fire Fighters:**

When fighting a major fire wear self-contained breathing apparatus and protective equipment.

### 6 Accidental Release Measures

**Personal Precautions, Protective Equipment and Emergency Procedures:**

Wear approved respiratory protection, chemical resistant gloves, protective clothing and safety boots.

Evacuate all non-essential personnel from affected area.

**Environmental Precautions:**

In the event of a major spill, prevent spillage from entering drains or water courses.

**Methods and Materials for Containment and Cleaning Up:**

Stop leak if safe to do so and absorb spill with sand, earth, vermiculite or some other absorbent material.

Collect the spilled material and place into a suitable container for disposal. For large spills, control the spill with dikes and use a portable pump and hoses to collect.

### 7 Handling and Storage

**Precautions for Safe Handling:**

Use of safe work practices are recommended to avoid eye or skin contact and inhalation of vapours.

Food, beverages and tobacco products should not be stored or consumed where this material is in use. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use.

**Conditions for Safe Storage:**

Store in a cool, dry and well ventilated area. Keep container tightly closed when not in use. Protect from heat, open flames and other sources of ignition, and direct sunlight. Keep away from combustible materials, oxidising agents, acids, and carbon steel, copper, zinc, or any of their alloys.

### 8 Exposure Controls and Personal Protection

**Exposure Standards:**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

**Engineering Controls:** Natural ventilation should be adequate under normal use conditions.

**Respiratory Protection:**

Use an approved respirator under conditions where exposure to the substance is apparent (e.g. generation of high concentrations of mist or vapour or development of respiratory tract irritation) and engineering controls are not feasible. See Australian Standards AS/NZS 1715 and 1716 for more information.

**Skin Protection:**

Neoprene rubber gloves. See Australian/New Zealand Standard AS/NZS 2161 for more information. When selecting gloves for use against certain chemicals, the degradation resistance, permeation rate and permeation breakthrough time should be considered.

Occupational protective clothing such as a neoprene rubber apron (depending on conditions in which it has to be used, in particular as regards the period for which it is worn, which shall be determined on the basis of the

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seriousness of the risk, the frequency of exposure to the risk, the characteristics of the workstation of each worker and the performance of the protective clothing). See Australian/New Zealand Standard AS/NZS 4501 for more information.

**Eye and Face Protection:**

Eye and face protectors for protection against splashing materials or liquids. See Australian/New Zealand Standard AS/NZS 1337 for more information.

### 9 Physical and Chemical Properties

**Appearance:**

<b>Form:</b>	Liquid
<b>Colour:</b>	Colourless
<b>Odour:</b>	Fresh concrete to no odour
<b>Odour Threshold:</b>	No information available
<b>pH-Value:</b>	6.5-8.0
<b>Melting point/freezing point:</b>	0 °C (Salt-out)
<b>Initial Boiling Point/Boiling Range:</b>	100 °C
<b>Flash Point:</b>	No information available
<b>Flammability:</b>	Not flammable
<b>Auto-ignition Temperature:</b>	No information available
<b>Decomposition Temperature:</b>	100 °C
<b>Explosion Limits:</b>	
<b>Lower:</b>	No information available
<b>Upper:</b>	No information available
<b>Vapour Pressure at 38 °C:</b>	37 mm Hg
<b>Density:</b>	1.2-1.3 g/cm <sup>3</sup>
<b>Relative Density:</b>	1.25-1.26
<b>Vapour Density:</b>	Same as water
<b>Evaporation Rate:</b>	No information available
<b>Solubility in Water:</b>	Completely soluble
<b>Partition Coefficient (n-octanol/water):</b>	No information available
<b>Viscosity at 25 °C:</b>	211 mm <sup>2</sup> /s

### 10 Stability and Reactivity

**Possibility of Hazardous Reactions:**

Oxidising agents can cause explosive mixtures if heated to dryness. Contact with acids will result in the release of sulfur dioxide.

**Chemical Stability:** Stable at ambient temperature and under normal conditions of storage and use.

**Conditions to Avoid:** Heat, open flames, hot surfaces and direct sunlight.

**Incompatible Materials:**

Combustible materials, oxidising agents, acids, and carbon steel, copper, zinc, or any of their alloys.

**Hazardous Decomposition Products:** Calcium oxide and oxides of sulfur.

### 11 Toxicological Information

**Toxicity:****LD50/LC50 Values:**

Oral	LD50	>2,000 mg/kg (rat)
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**Acute Health Effects**

**Inhalation:** May cause respiratory irritation.

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**Skin:** May cause skin irritation..**Eye:** May cause eye irritation.**Ingestion:** May cause gastrointestinal irritation.**Skin Corrosion / Irritation:** Based on classification principles, the classification criteria are not met.**Serious Eye Damage / Irritation:** Based on classification principles, the classification criteria are not met.**Respiratory or Skin Sensitisation:** Based on classification principles, the classification criteria are not met.**Germ Cell Mutagenicity:** Based on classification principles, the classification criteria are not met.**Carcinogenicity:** This product does NOT contain any IARC listed chemicals.**Reproductive Toxicity:** Based on classification principles, the classification criteria are not met.**Specific Target Organ Toxicity (STOT) - Single Exposure:**

Based on classification principles, the classification criteria are not met.

**Specific Target Organ Toxicity (STOT) - Repeated Exposure:**

Based on classification principles, the classification criteria are not met.

**Aspiration Hazard:** Based on classification principles, the classification criteria are not met.**Chronic Health Effects:** No information available**Existing Conditions Aggravated by Exposure:** No information available

### 12 Ecological Information

**Ecotoxicity:****Aquatic toxicity:**

No adverse ecological effects are expected. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

**Persistence and Degradability:** No data available on finished product.**Bioaccumulative Potential:** Bioaccumulation is not expected to occur.**Mobility in Soil:** No data available on finished product.**Other adverse effects:** No further relevant information available.

### 13 Disposal Considerations

**Disposal Methods and Containers:** Dispose according to applicable local and state government regulations.**Special Precautions for Landfill or Incineration:**

Please consult your state Land Waste Management Authority for more information.

### 14 Transport Information

**UN Number** Not regulated**Proper Shipping Name** Not regulated**Dangerous Goods Class** Not regulated**Packing Group:** Not regulated

### 15 Regulatory Information

**Australian Inventory of Industrial Chemicals:**

All ingredients are listed.

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**Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Poison Schedule:**

Not a scheduled poison.

### 16 Other Information

**Date of Preparation or Last Revision:** 06.12.2021**Prepared by:** MSDS.COM.AU Pty Ltd[www.msds.com.au](http://www.msds.com.au)**Abbreviations and acronyms:**

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

IARC: International Agency for Research on Cancer

STEL: Short Term Exposure Limit

TWA: Time Weighted Average

NES: National Exposure Standard (Safe Work Australia - Workplace Exposure Standards For Airborne Contaminants)

**Disclaimer**

This SDS is prepared in accord with the Safe Work Australia document "Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals - July 2020"

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