

## PRODUCT SAFETY DATA SHEET

### THIO-S

**1. † Identity of the Product and the Company:**

Product Name: THIO-S  
Function: A high-sulphur fluid fertiliser for use in agriculture and horticulture

**Contact Points:**

Headland Agrochemicals Ltd  
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**2. Hazards:**

May be irritating to skin and eyes  
May irritate gastro-intestinal tract if swallowed, causing nausea, vomiting and diarrhoea.

**3. Composition:**

An aqueous formulation containing approximately 58% w/w of ammonium thiosulphate. CAS No. 7783-18-8.

**4. First Aid Measures:**

Eyes: Irrigate with clean water for at least 15 minutes. Seek medical attention if any irritation or redness persists.  
Skin: Remove contaminated clothing. Wash thoroughly with soap and water.  
Ingestion: If swallowed drink plenty of water and seek medical advice.  
Inhalation: Remove from exposure and provide maximum ventilation

**5. Fire Fighting Measures**

Thio-S will not burn. If involved in a fire, fumes and vapours may be harmful, containing sulphur dioxide. Fire fighters should wear breathing apparatus. Use dry chemical, foam, water spray, sand or earth. Prevent entry of the product or contaminated water into watercourses ditches or drains.

**6. † Accidental Release (Spillage)**

Wear suitable protective clothing (See Section 8 below).

Cover the spillage with inert absorbent material (sand, earth etc), shovel up and transfer to a container for later remove to a safe place for disposal. Flush the area with plenty of water when all the spillage has been removed.

Prevent the spillage from entering watercourses sewers or drains. Inform the authorities if contamination of water is threatened or occurs.

**7. Storage and Handling**

Keep in original container, tightly closed

Keep cool and dry in a suitable agricultural chemical store under lock and key

Keep away from food, drink and animal feedingstuffs and out of reach of children

Do not allow to freeze. Store above 5°C. Do not store in direct sunlight.

**8. Personal Protection**

Wear suitable neoprene or chemical-resistant protective gloves and face-shield when handling the concentrated product. Avoid breathing spray mist.

**9. Physical and Chemical Properties**

Appearance: a water-white to pale yellow liquid

Odour: mild chemical odour

Specific Gravity: 1.3 – 1.35

pH: Approx .7-8.5

Freezing Point: 1.1°C

Solubility: Soluble in water. Insoluble in alcohols and acetone

**10. Stability and Reactivity**

Very stable. Stores for at least 2 years in original containers in normal agricultural chemical storage conditions. Do not allow to freeze.

Keep away from acids and strong oxidisers.

KTS is incompatible with lead or mercury and their alloys. Do not handle or store in systems containing such materials

**11. Toxicological Information**

This product is of low toxicity:

Acute oral LD50: >2,000 mg/bg.bw (calculated)

Acute dermal LD50: >4,000 mg/kg.bw (calculated)

Irritancy: May be mildly irritating to skin and eyes

**12. Environmental Protection**

This product is of low toxicity to fish. Its components are readily bio-degradable and bio-accumulation is unlikely to occur.

Do not contaminate surface waters or ditches with any chemical or used containers.

**13. Disposal of Unwanted Product and Used Containers**

Consult the local authorities before disposing of unwanted chemical.

Triple-rinse and puncture used containers and dispose of as permitted by local authorities. Do not re-use containers for any purpose.

**14. Transport Information**

Road Transport: Not hazardous

UN Number: No UN Number

Proper Shipping Name: Non-hazardous

IMDG Class: Not applicable  
CPL Packing Group: Not applicable

**15. Regulatory Information**

No statutory phrases apply.

Advisory phrases:

S2 Keep out of reach of children  
S13 Keep away from food, drink and animal feedingstuffs  
S37/39 Wear suitable protective gloves and eye/face protection

**16. Other Information**

The above information is intended to give health and safety guidance on the storage and transport of the substance or product to which it relates. It is not intended to apply to the use of the product, for which purpose the product label and any appropriate technical usage literature available should be consulted and any relevant licences, consents or approvals complied with. The requirements or recommendations of any relevant site or working procedure, system or policy in force or arising from any risk assessment involving the substance or product should take precedence over any of the guidance contained in this safety data sheet where there is a difference in the information given. The information provided in this safety data sheet is accurate to the best of the issuer's available knowledge at the date of publication, and will be updated as and when appropriate. No liability will be accepted for any loss or damage resulting from any failure to take account of information or advice contained in this safety data sheet.

Headland is a registered trade mark. Thio-S is a trade mark.

Revised: March 2009  
Replaces issue dated: April 2001  
Sections updated since last issue: Marked † in margin