**OCHNOLOGY SOLUTION PVT. LTD**
**Website:** www.ochnology.com
**Tel:** +91 9286823642/43
**Address:** B-153, Sector-4 Defence Colony, Dehradun, Uttarakhand, India – 248001
**E-Mail:** projects@ochnology.com, bd@ochnology.com

# Material Safety Data Sheet (MSDS / SDS)

## Sulfolane (Anhydrous) – High Purity Grade

## SECTION 1: Identification

| | |
|---|---|
| **Product Name** | Sulfolane (Tetramethylene Sulfone), Anhydrous |
| **Synonyms** | Sulfolane, Tetramethylene Sulfone, Tetrahydrothiophene 1,1-Dioxide |
| **CAS No.** | 126-33-0 |
| **Recommended Use** | Solvent for aromatics extraction (BTX/paraxylene separation) and natural gas sweetening (Sulfinol process) |
| **Manufacturer / Supplier** | Ochnology Solution Pvt. Ltd., B-153, Sector-4 Defence Colony, Dehradun, Uttarakhand, India – 248001 |
| **Telephone** | +91 9286823642/43 |
| **Email** | projects@ochnology.com, bd@ochnology.com |

## SECTION 2: Hazard(s) Identification

**GHS Classification: Acute Toxicity Category 4, Oral (H302); Eye Irritation Category 2 (H319). Combustible liquid (flash point >93°C, above the GHS Flammable Liquid classification threshold).**

**Signal Word: Warning**

**Hazard Statements:**

- H302 – Harmful if swallowed
- H319 – Causes serious eye irritation
- Combustible liquid – can burn if heated above its flash point (≈165°C) or exposed to a strong ignition source

**Precautionary Statements:**

- P210 – Keep away from heat, hot surfaces, sparks, open flames – No smoking
- P264 – Wash hands thoroughly after handling
- P270 – Do not eat, drink or smoke when using this product
- P280 – Wear protective gloves/eye protection

**OCHNOLOGY SOLUTION PVT. LTD**
**Website:** www.ochnology.com
**Tel:** +91 9286823642/43
**Address:** B-153, Sector-4 Defence Colony, Dehradun, Uttarakhand, India – 248001
**E-Mail:** projects@ochnology.com, bd@ochnology.com

- P301+P312 – IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell
- P305+P351+P338 – IF IN EYES: Rinse cautiously with water for several minutes; remove contact lenses if present and easy to do; continue rinsing
- P273 – Avoid release to the environment

## SECTION 3: Composition / Information on Ingredients

| Component | CAS No. | Concentration (w/w) |
|---|---|---|
| Sulfolane (Tetramethylene Sulfone) | 126-33-0 | Min. 99.5% |
| Water (residual) | 7732-18-5 | < 0.1% |

## SECTION 4: First-Aid Measures

| | |
|---|---|
| **Eye Contact** | Rinse immediately with plenty of water for at least 15 minutes, holding eyelids open. Remove contact lenses if present and easy to do. Seek medical attention if irritation persists. |
| **Skin Contact** | Wash affected area with plenty of water and soap. Remove contaminated clothing. Seek medical attention if irritation persists. |
| **Inhalation** | Move to fresh air. If coughing or respiratory discomfort persists, seek medical attention. |
| **Ingestion** | Do NOT induce vomiting. Rinse mouth with water. Seek medical attention immediately – call a poison centre. |

## SECTION 5: Fire-Fighting Measures

- Combustible liquid (flash point ≈165°C) – keep away from heat and strong ignition sources
- Suitable extinguishing media: water spray/fog, foam, CO2, dry chemical
- Combustion may release oxides of sulphur and carbon – fire-fighters should wear SCBA in enclosed or heavily smoke-logged conditions

**OCHNOLOGY SOLUTION PVT. LTD**
**Website:** www.ochnology.com
**Tel:** +91 9286823642/43
**Address:** B-153, Sector-4 Defence Colony, Dehradun, Uttarakhand, India – 248001
**E-Mail:** projects@ochnology.com, bd@ochnology.com

## SECTION 6: Accidental Release Measures

- Contain spill and prevent entry into drains, sewers, soil or waterways – sulfolane is highly water-soluble and mobile in groundwater once released (see Section 12)
- Absorb with inert absorbent material (sand, vermiculite, earth) and collect in suitable containers for disposal
- Product solidifies below ≈28°C, which can aid containment of small spills in cold conditions
- Wear appropriate PPE (gloves, safety glasses) during clean-up

## SECTION 7: Handling and Storage

- Keep away from heat, sparks, open flame and other ignition sources
- Avoid eye contact and prolonged skin contact; use with adequate ventilation
- Store in a cool, dry, covered area in tightly closed containers to preserve the anhydrous specification
- Prevent any release to soil or groundwater during storage and transfer – sulfolane is persistent and highly mobile in groundwater once released, and has been the subject of documented groundwater contamination incidents at refinery and gas-processing sites

## SECTION 8: Exposure Controls / Personal Protection

| | |
|---|---|
| **Occupational Exposure Limits** | No universally harmonised specific OEL established for sulfolane; handle per good industrial hygiene practice and confirm current jurisdiction-specific guidance |
| **Engineering Controls** | General ventilation is normally sufficient given the low vapour pressure; local exhaust recommended if heated |
| **Eye/Face Protection** | Chemical splash goggles recommended – this product is an eye irritant |
| **Hand Protection** | Chemical-resistant gloves (nitrile or neoprene) recommended |
| **Respiratory Protection** | Not normally required under standard handling conditions due to low volatility at ambient temperature |

## SECTION 9: Physical and Chemical Properties

**OCHNOLOGY SOLUTION PVT. LTD**
**Website:** www.ochnology.com
**Tel:** +91 9286823642/43
**Address:** B-153, Sector-4 Defence Colony, Dehradun, Uttarakhand, India – 248001
**E-Mail:** projects@ochnology.com, bd@ochnology.com

| Property | Unit | Value |
|---|---|---|
| Appearance | – | Colourless to pale yellow liquid (solid below ≈28°C) |
| Odour | – | Faint, characteristic odour |
| Boiling Point | °C | ≈ 285 |
| Flash Point (Closed Cup) | °C | ≈ 165 |
| Freezing/Melting Point | °C | ≈ 27.5 – 28.5 |
| Density @ 20°C | g/cm³ | 1.261 – 1.265 |
| Solubility in Water | – | Fully miscible |
| Autoignition Temperature | °C | ≈ 528 |

## SECTION 10: Stability and Reactivity

- Stable under normal conditions of storage, handling and use
- High thermal stability is a defining characteristic of this product, supporting its use in closed-loop refining/extraction systems
- Incompatible materials: strong oxidising agents
- Hazardous decomposition products: oxides of sulphur and carbon under combustion conditions

## SECTION 11: Toxicological Information

- Moderate acute oral toxicity – harmful if swallowed
- Causes serious eye irritation on direct contact
- Some regulatory reviews have flagged developmental/reproductive toxicity signals for sulfolane in animal studies; buyers requiring a full toxicological risk assessment should

**OCHNOLOGY SOLUTION PVT. LTD**
**Website:** www.ochnology.com
**Tel:** +91 9286823642/43
**Address:** B-153, Sector-4 Defence Colony, Dehradun, Uttarakhand, India – 248001
**E-Mail:** projects@ochnology.com, bd@ochnology.com

consult current regulatory reviews (e.g. US EPA IRIS assessment) for their specific jurisdiction

- Not classified as carcinogenic or mutagenic based on available information

## SECTION 12: Ecological Information

- Sulfolane is highly water-soluble, resistant to biodegradation, and highly mobile in groundwater – this combination of properties has led to documented groundwater contamination incidents at refinery and natural-gas-processing sites where releases occurred
- Not acutely toxic to aquatic organisms at typical exposure levels based on available data, but its persistence and mobility make groundwater/environmental protection a genuine, practical priority wherever this product is stored, handled, or processed
- Avoid any release to soil, groundwater or surface water under all circumstances

## SECTION 13: Disposal Considerations

- Dispose of product and packaging in accordance with local, state and national regulations
- Do not discharge to drains, soil or waterways under any circumstances given sulfolane's groundwater mobility and persistence
- Use a licensed waste handler for bulk disposal

## SECTION 14: Transport Information

| | |
|---|---|
| **UN Number** | Not applicable – not classified as Dangerous Goods |
| **Proper Shipping Name** | Not regulated for transport (IMDG / ADR / IATA / RID) |
| **Transport Hazard Class** | Not classified |
| **Packing Group** | Not applicable |
| **Environmental Hazards** | Avoid release to soil, groundwater or surface water – see Section 12 |

**OCHNOLOGY SOLUTION PVT. LTD**
**Website:** www.ochnology.com
**Tel:** +91 9286823642/43
**Address:** B-153, Sector-4 Defence Colony, Dehradun, Uttarakhand, India – 248001
**E-Mail:** projects@ochnology.com, bd@ochnology.com

## SECTION 15: Regulatory Information

- Widely listed on major chemical inventories (TSCA, REACH, ECL, etc.) as an existing/registered substance
- Sulfolane groundwater contamination at refinery/gas-plant sites has been the subject of regulatory attention and remediation programmes in some jurisdictions (e.g. documented cases in North America) – facilities storing or handling sulfolane in bulk should implement robust secondary containment and groundwater monitoring as a matter of good practice, independent of specific local regulatory mandates
- Buyers/importers should confirm current labelling and inventory requirements applicable to their specific jurisdiction and end-use

## SECTION 16: Other Information

**Revision Date: 19 July 2026**

This SDS has been compiled based on general industry data and knowledge for Sulfolane Anhydrous products of this type as commercially supplied. It is intended as a general handling and safety guide and does not replace a batch-specific SDS from the manufacturing mill, which should be obtained and reviewed for each shipment where regulatory submission is required – particularly regarding groundwater protection measures at storage and handling sites.

---