



# 杭州大阳化工有限公司

Hangzhou Dayangchem Co., Ltd.

## Material Safety Data Sheet

No :M-4433

### Section 1 - Product and Company Identification

**MSDS Name:** Tetramethylene sulfone

**Synonyms:** Sulfolane; Tetrahydrothiophene 1,1-dioxide

**Company Identification:** Hangzhou Dayangchem Co., Ltd.

**For information, call:** 86-571-88938639

**For information, E-mail:** infores@chinadayangchem.com

**Emergency Number:** 86-571-88938639

**For CHEMTREC assistance, call:** 86-571-88938639; FAX:86-571-88938652

### Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name	%	EINECS#	Hazard Symbols:	Risk Phrases:
126-33-0	Tetramethylene sulfone	99.5	204-783-1	XN	22

Text for R-phrases: see Section 16

**Hazard Symbols:**



**Risk Phrases:** 22

## Section 3 - Hazards Identification

### EMERGENCY OVERVIEW

*Harmful if swallowed.*

#### Potential Health Effects

**Eye:** May cause eye irritation.

**Skin:** May cause skin irritation.

**Ingestion:** Harmful if swallowed. May cause irritation of the digestive tract.

**Inhalation:** May cause respiratory tract irritation. May be harmful if inhaled.

**Chronic:**

## Section 4 - First Aid Measures

**Eyes:** Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

**Skin:** Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

**Ingestion:** Get medical aid immediately. Wash mouth out with water.

**Inhalation:** Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

**Notes to Physician:** Treat symptomatically and supportively.

## Section 5 - Fire Fighting Measures

**General Information:** As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.

**Extinguishing Media:** Use water spray, dry chemical, carbon dioxide, or chemical foam.

## Section 6 - Accidental Release Measures

**General Information:** Use proper personal protective equipment as indicated in Section 8.

**Spills/Leaks:** Vacuum or sweep up material and place into a suitable disposal container. Do not let this chemical enter the environment.

## Section 7 - Handling and Storage

**Handling:** Avoid breathing dust, vapor, mist, or gas. Avoid contact with skin and eyes. Avoid ingestion and inhalation.

**Storage:** Store in a cool, dry place. Store in a tightly closed container.

## Section 8 - Exposure Controls, Personal Protection

**Engineering Controls:** Use adequate ventilation to keep airborne concentrations low.

**Exposure Limits:**

CAS# 126-33-0:

**Personal Protective Equipment**

**Eyes:** Wear chemical splash goggles.

**Skin:** Wear appropriate protective gloves to prevent skin exposure.

**Clothing:** Wear appropriate protective clothing to prevent skin exposure.

**Respirators:** Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

## Section 9 - Physical and Chemical Properties

**Physical State:** transparent liquid

**Color:** colorless

**Odor:** Not available.

**pH:** Not available.

**Vapor Pressure:** 0.035hPa @30 deg C

**Viscosity:** 10.34 cP @30 deg C

**Boiling Point:** 285 deg C @760mmHg ( 545.00°F)

**Freezing/Melting Point:** 27.4 - 27.8 deg C

**Autoignition Temperature:** 528 deg C ( 982.40 deg F)

**Flash Point:** 165 deg C ( 329.00 deg F)

**Explosion Limits:Lower:** Not available.

**Explosion Limits Upper:** Not available.

**Decomposition Temperature:** Not available.

**Solubility in water:** Soluble

**Specific Gravity/Density:** 1.260

**Molecular Formula:** C4H8O2S

**Molecular Weight:** 120.17

## Section 10 - Stability and Reactivity

**Chemical Stability:** Stable under normal temperatures and pressures.

**Conditions to Avoid:** Incompatible materials, temperatures above 220°C.

**Incompatibilities with Other Materials:** Strong oxidizing agents.

**Hazardous Decomposition Products:** Carbon monoxide, oxides of sulfur, carbon dioxide.

**Hazardous Polymerization:** Has not been reported.

## Section 11 - Toxicological Information

**RTECS#:** CAS# 126-33-0: XN0700000

**LD50/LC50:** RTECS:

CAS# 126-33-0: Draize test, rabbit, eye: 253 mg Mild;

Oral, mouse: LD50 = 1900 mg/kg;

Oral, rat: LD50 = 1540 uL/kg;

Skin, rabbit: LD50 = 3180 uL/kg;

Skin, rat: LD50 = >3800 mg/kg;

**Carcinogenicity:** Tetramethylene sulfone - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.

**Other:** See actual entry in RTECS for complete information.

## Section 12 - Ecological Information

**Other:** Do not empty into drains.

## Section 13 - Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.

## Section 14 - Transport Information

**IATA :** Not regulated as a dangerous material.

**RID/ADR:** Not regulated as a dangerous material.

**IMO:** Not regulated as a dangerous material.

## Section 15 - Regulatory Information

### European/International Regulations

European Labeling in Accordance with EC Directives

**Hazard Symbols:** XN

**Risk Phrases:**

R 22 Harmful if swallowed.

**Safety Phrases:**

S 25 Avoid contact with eyes.

**WGK (Water Danger/Protection):**

CAS#126-33-0: 1

Canada

CAS#126-33-0 is listed on Canada's DSL List

**US Federal**

TSCA

CAS# 126-33-0 is listed on the TSCA Inventory.

**Section 16 - Additional Information**

**Text for R-phrases from Section 2**

**MSDS Creation Date:** 08/07/2007

**Revision #1 Date:** 23/09/2009

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