

**MATERIAL SAFETY DATA SHEET**  
**2,2'-THENIL 98%**

**Section 1 - Chemical Product and Company Identification**

**MSDS Name:** 2,2'-THENIL 98%  
**Catalog Numbers:** 7.3  
**Synonyms:** DI(2-THIENYL)ETHANDIONE  
1,2-BIS(2-THIENYL)ETHANEDIONE

Relevant identified uses of the substance or mixture and uses advised against

Identified uses Laboratory chemicals, Manufacture of substances

**Company Identification:** Tau-Chem, Ltd.  
Nobelova 34, P.O. Box 29  
836 05 Bratislava, Slovak Republic  
Phone: +421 2 44 452 252 Fax: +421 2 44 457 645

**POISON CENTER:** National Toxicological Information Centre  
Limbová 5, 833 05 Bratislava,

**Emergency Numbers Slovakia:** Phone: +421 2 54 774 166 Fax: +421 2 54 774 605

**Section 2 - Hazards Identification**

**Classification of the substance or mixture**

**Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP]**

Not a dangerous substance according to GHS.

**Classification according to EU Directives 67/548/EEC or 1999/45/EC**

This substance is not classified as dangerous according to Directive 67/548/EEC.

**Labelling according Regulation (EC) No 1272/2008 [CLP]**

**Label elements**

None. Not a dangerous substance according to GHS.

Caution – substance not yet tested completely.

Hazard symbol(s)

R-phrase(s)

S-phrase(s)

S24/25

Avoid contact with skin and eyes.

**Other hazards**

None.

**Section 3 – Composition, Information on Ingredients**

CAS#	Chemical Name:	%	EINECS#
7333-07-5	2,2'-THENIL	98	UNLISTED

**Classification** This substance is not classified as dangerous according to Directive 67/548/EEC. For the full text of the H-Statements mentioned in this Section, see Section 16.

#### Section 4 – First Aid Measures

<b>General advice:</b>	Consult a physician. Show this safety data sheet to the doctor in attendance.
<b>If inhaled:</b>	If breathed in, move person into fresh air. If not breathing give artificial respiration. Consult a physician.
<b>In case of skin contact:</b>	Wash off with soap and plenty of water. Consult a physician.
<b>In case eye contact:</b>	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
<b>If swallowed:</b>	Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

#### Section 5 – Fire Fighting Measures

<b>Suitable extinguishing media:</b>	Use sand, alcohol-resistant foam, dry chemical or carbon dioxide. Do not use water extinguishers.
<b>Special protective equipment for fire-fighters:</b>	Wear self contained apparatus breathing apparatus for fire fighting if necessary.

#### Section 6 – Accidental Release Measures

<b>Personal precautions:</b>	Use personal protective equipment. Avoid breathing of dust. Ensure adequate ventilation.
<b>Environmental precautions:</b>	Do not let product enter drains.
<b>Methods and materials for containment and cleaning up:</b>	Pick up without creating dust and dispose as hazardous waste. Keep in suitable, closed containers for disposal.

#### Section 7 – Handling and Storage

<b>Precautions for safe handling:</b>	Avoid contact with skin and eyes. Avoid inhalation of vapours or mist or dust. Keep away from sources of ignition – No smoking. Normal measures for preventive fire protection.
<b>Conditions for safe storage:</b>	Store in cool, dry place. Keep container tightly closed in a dry and well-ventilated place.

#### Section 8 – Exposure Controls, Personal Protection

<b>Personal protective equipment:</b>	
<b>Respiratory protection:</b>	Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use

	respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
<b>Hand protection</b>	The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. Handle with gloves.
<b>Eye protection:</b>	Safety glasses with side-shields conforming to EN 166. Use equipment for eye protection tested and approved under appropriate government standards as NIOSH (US) or EN 166 (EU)
<b>Skin and body protection:</b>	Impervious body protection according to the amount and concentration of the dangerous substance at the work place.
<b>Hygiene measures:</b>	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

## Section 9 – Physical and Chemical Properties

### Appearance

Form:	Solid
Colour:	yellow

### Safety data:

pH	Not available
Freezing Point:	Not available
Melting Point:	81-84 °C – lit.
Flash Point:	Not available
Ignition temperature:	Not available
Explosion Limits: Lower:	Not available
Explosion Limits: Upper:	Not available
Solubility in water:	Insoluble – lit.
Specific density:	Not available
Refractive Index:	Not available
Molecular Formula:	C <sub>10</sub> H <sub>6</sub> O <sub>2</sub> S <sub>2</sub>
Molecular Weight:	222.28 g/mol

## Section 10 – Stability and Reactivity

<b>Chemical Stability:</b>	Stabile under recommended storage conditions.
<b>Materials to avoid:</b>	Strong oxidizing agents.
<b>Hazardous Decomposition Products</b>	Hazardous decomposition products under fire conditions. – Carbon oxides, Sulfur oxides.

## Section 11 – Toxicological Information

<b>Acute toxicity</b>	No data available
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<b>Skin corrosion/irritation</b>	No data available
<b>Serious eye damage/eye irritation</b>	No data available
<b>Respiratory or skin sensitization</b>	No data available
<b>Germ cell mutagenicity</b>	No data available

**Carcinogenicity:**

IARC: No component of this product presents at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

<b>Reproductive toxicity:</b>	No data available
<b>Specific target organ toxicity – single exposure</b>	Inhalation – May cause respiratory irritation.
<b>Specific target organ toxicity – repeated exposure</b>	No data available
<b>Aspiration hazard</b>	No data available
<b>Potential health effect:</b>	
<b>Inhalation</b>	May be harmful if inhaled. Causes respiratory tract irritation.
<b>Ingestion</b>	Harmful if swallowed.
<b>Skin</b>	May be harmful if absorbed through skin. Causes skin irritation.
<b>Eyes</b>	Causes serious eye irritation

**Signs and Symptoms of Exposure**

To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.

**Additional Information**

RTECS: Not available

**Section 12 – Ecological Information**

<b>Toxicity:</b>	No data available
<b>Persistence and degradability</b>	No data available
<b>Bioaccumulative potential</b>	No data available
<b>Mobility in soil</b>	No data available
<b>PBT and vPvB assessment</b>	No data available
<b>Other adverse effects</b>	No data available

**Section 13 - Disposal Considerations**

<b>Product</b>	Observe all federal, state and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material.
<b>Contaminated packaging</b>	Dispose of as unused product.

**Section 14 - Transport Information**

	<b>IATA</b>	<b>IMDG</b>	<b>RID/ADR</b>
<b>Shipping Name:</b>	Not dangerous goods	Not dangerous goods	Not dangerous goods
<b>Hazard Class:</b>			
<b>UN Number:</b>			
<b>Packing Group:</b>			

### Section 15 - Regulatory Information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006

Further information:

This product does not need to be labeled in accordance with EC directives or respective national laws.

### Section 16 - Other Information

#### Text of H-code(s) and R-phrase(s) mentioned in Section 3

**MSDS Creation Date:** 29/07/2010

**Revision #0:** Original

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

Disclaimer:

The information contained herein is based on the present state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.