

**MATERIAL SAFETY DATA SHEET**  
**2-FURANMETHANETHIOL 97%**

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

<b>MSDS Name:</b>	2-FURANMETHANETHIOL 97%
<b>Catalog Numbers:</b>	4.85
<b>Synonyms:</b>	2-Furylmethanethiol Furfuryl mercaptan
<b>Company Identification:</b>	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
Relevant identified uses of substance or mixture and uses advised against	
Identified uses	Laboratory chemicals, Manufacture of substances
<b>POISON CENTER:</b>	National Toxicological Information Centre Limbová 5, 833 05 Bratislava,
<b>Emergency Numbers Slovakia:</b>	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**

Flammable liquid (Category 3)

**Classification according to Regulation (EC) No 1272/2008**

Flammable liquid.

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

**Label elements**

Pictogram



Signal word

Danger

Hazard statement(s)

H226

Highly flammable liquid and vapor.

Precautionary statement(s)

P280

Wear protective gloves/ protecting clothing/ eye protection/face protection.

P305+P351+P338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

P310

Continue rinsing.

Immediately call a POISON CENTER or doctor/physician.

**According to European Directive 67/548/EEC as amended**



Hazard symbol(s)

F

Flammable.

R-phrase(s)

R10

Flammable.

S-phrase(s)

S16

Keep away from sources of ignition - No smoking.

**Other hazards**

Stench.

### Section 3 - Composition, Information on Ingredients

CAS#	Chemical Name:	%	EINECS#
98-02-2	2-FURANMETHANETHIOL	97	202-628-2

**Classification** Flam Liq. 3  
H226  
F; R10

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>	For small (incipient) fires, use media such as "alcohol" foam, dry chemical, or carbon dioxide. For large fires, apply water from as far as possible. Use very large quantities (flooding) of water applied as a mist or spray; solid streams of water may be ineffective. Cool all affected containers with flooding quantities of water.
<b>Special protective equipment for fire-fighters:</b>	Wear self contained apparatus breathing apparatus for fire fighting if necessary.
<b>Further information</b>	Use water spray to cool unopened containers.

## Section 6 – Accidental Release Measures

<b>Personal precautions:</b>	Avoid breathing vapours, mist or gas. Remove all sources of ignition. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
<b>Environmental precautions:</b>	Prevent further leakage or spillage if safe to do. Do not let product enter drains.
<b>Methods and materials for containment and cleaning up</b>	Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).

## Section 7 – Handling and Storage

<b>Precautions for safe handling:</b>	Avoid inhalation of vapor or mist. Keep away from sources of ignition. – No smoking. Take measures to prevent to built up of electrostatic charge.
<b>Conditions for safe storage:</b>	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store in cool place. Store under inert gas. Air sensitive.

## 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>	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.
<b>Eye protection:</b>	Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
<b>Skin and body protection:</b>	Impervious clothing, Flame retardant antistatic protective clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
<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: Liquid

Colour:	Yellow
Odour:	Stench
<b>Safety data:</b>	
<b>pH</b>	Not available
<b>Melting Point:</b>	Not available
<b>Boiling Point:</b>	155 °C
<b>Flash Point:</b>	45 °C closed cup
<b>Ignition temperature:</b>	Not available
<b>Explosion Limits: Lower:</b>	Not available
<b>Explosion Limits: Upper:</b>	Not available
<b>Solubility in water:</b>	Not available
<b>Density:</b>	1,132 g/mL at 25 °C
<b>Refractive index:</b>	1.5290-1.5330
<b>Molecular Formula:</b>	C <sub>5</sub> H <sub>6</sub> OS
<b>Molecular Weight:</b>	114.17 g/mol

### Section 10 – Stability and Reactivity

<b>Chemical Stability:</b>	Stabile under recommended storage conditions.
<b>Conditions to Avoid:</b>	Heat, flames and sparks.
<b>Materials to avoid:</b>	Alkali metals.
<b>Hazardous Decomposition Products</b>	Hazardous decomposition products under fire conditions. – Carbon oxides, Sulphur oxides.

### Section 11 – Toxicological Information

<b>Acute toxicity</b>	LD50 Intraperitoneal - mouse - 100 mg/kg
<b>Skin corrosion/irritation</b>	No data available
<b>Serious eye damage/eye irritation</b>	No data available
<b>Respiratory or skin sensitization</b>	May cause allergic respiratory reaction.
<b>Germ cell mutagenicity</b>	No data available
<b>Carcinogenicity:</b>	
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. May cause respiratory tract irritation.
<b>Ingestion</b>	May be harmful if swallowed.

**Skin** May be harmful if absorbed through skin. May cause skin irritation.

**Eyes** May cause eye irritation.

**Signs and Symptoms of Exposure**

Nausea, Headache, Vomiting.

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

**Additional Information**

RTECS: LU2100000

### 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>	Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. 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>	MERCAPTANS, LIQUID, FLAMMABLE, N.O.S.	MERCAPTANS, LIQUID, FLAMMABLE, N.O.S.	MERCAPTANS, LIQUID, FLAMMABLE, N.O.S.
<b>Hazard Class:</b>	3	3	3
<b>UN Number:</b>	3336	3336	3336
<b>Packing Group:</b>	III	III	III
		EMS No: F-E; S-D Marine pollutant: No	

### Section 15 – Regulatory Information

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

## Section 16 – Other Information

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

Flam. Liq.	Flammable liquids.
H226	Flammable liquid and vapor.
F	Flammable.
R10	Flammable.

**MSDS Creation Date:** 25/11/2011

**Revision #0 Date:** 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.