

MATERIAL SAFETY DATA SHEET
METHYL 2,5-DIHYDRO-2,5-DIMETHOXY-2-FURANCARBOXYLATE 85%

Section 1 - Chemical Product and Company Identification

MSDS Name: METHYL 2,5-DIHYDRO-2,5-DIMETHOXY-2-FURANCARBOXYLATE; mixture of cis and trans 85%

Catalog Numbers: 4.68

Synonyms: 2,5-Dimethoxy-2,5-dihydrofuran-2-carboxylic acid methyl ester

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

Relevant identified uses of substance or mixture and uses advised against
 Identified uses Laboratory chemicals, Manufacture of substances

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

Not a dangerous substance according to GHS.

According to European Directive 67/548/EEC as amended

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

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

Label elements

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

Safety phrase (s)

24/25

Avoid contact with skin and eyes.

Precautionary statement(s)

Other hazards

None.

Section 3 - Composition, Information on Ingredients

CAS#	Chemical Name:	%	EINECS#
62435-72-7	METHYL 2,5-DIHYDRO-2,5-DIMETHOXY-2-FURANCARBOXYLATE	85	263-540-8

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

General advice: Consult a physician.

If inhaled: If breathed in, move person into fresh air. If not breathing give artificial respiration. Consult a physician.

In case of skin contact: Wash off with soap and plenty of water. Consult a physician.

In case eye contact: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed: Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Section 5 - Fire Fighting Measures

Suitable extinguishing media: Use water, alcohol-resistant foam, dry chemical or carbon dioxide.

Special protective equipment for fire-fighters: Wear self contained apparatus breathing apparatus for fire fighting if necessary.

Section 6 - Accidental Release Measures

Personal precautions: Use personal protective equipment. Avoid breathing of vapours or mist. Ensure adequate ventilation.

Environmental precautions: Do not let product enter drains.

Methods and materials for containment and cleaning up: Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container.

Section 7 - Handling and Storage

Precautions for safe handling: Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation. Avoid prolonged or repeated exposure.

Conditions for safe storage: Store in a cool, dry place. Store in a tightly closed container.

Section 8 - Exposure Controls, Personal Protection

Personal protective equipment:

Respiratory protection: 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).
Hand protection	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.
Eye protection:	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)
Skin and body protection:	Impervious body protection according to the amount and concentration of the dangerous substance at the work place.
Hygiene measures:	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

Safety data:

pH	Not available
Melting point:	Not available
Boiling Point:	118-121 °C/12 mm Hg (lit.)
Flash Point:	104 °C
Ignition temperature:	Not available
Explosion Limits: Lower:	Not available
Explosion Limits: Upper:	Not available
Solubility in water:	Not available
Specific density:	1.175 g/mL at 25 °C (lit.)
Refractive Index:	$n_{20/D}$ 1.449(lit.)
Molecular Formula:	$C_8H_{12}O_5$
Molecular Weight:	188.18 g/mol

Section 10 - Stability and Reactivity

Chemical Stability:	Stabile under recommended storage conditions.
Conditions to avoid:	Not available
Materials to avoid:	Strong oxidizing agents.
Hazardous Decomposition Products	Hazardous decomposition products under fire conditions. – Carbon oxides.

Section 11 - Toxicological Information

Acute toxicity	No data available
Skin corrosion/irritation	No data available
Serious eye damage/eye irritation	No data available
Respiratory or skin sensitization	No data available

Germ cell mutagenicity 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.

Reproductive toxicity: No data available

Specific target organ toxicity – single exposure Inhalation – May cause respiratory irritation.

Specific target organ toxicity – repeated exposure No data available

Aspiration hazard No data available

Potential health effect:

Inhalation May be harmful if inhaled.

Ingestion May be harmful if swallowed.

Skin May be harmful if absorbed through skin.

Eyes May cause 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: No data available

Section 12 – Ecological Information

Toxicity: No data available

Persistence and degradability No data available

Bioaccumulative potential No data available

Mobility in soil No data available

PBT and vPvB assessment No data available

Other adverse effects No data available

Section 13 - Disposal Considerations

Product Observe all federal, state and local environmental regulations.

Contaminated packaging Dispose of as unused product.

Section 14 - Transport Information

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

Section 15 - Regulatory Information

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

Section 16 - Other Information

MSDS Creation Date: 17/12/2010

Revision #1: 04/10/2011

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.