

MATERIAL SAFETY DATA SHEET
ETHYL 3-FUROATE 99%

Section 1 - Chemical Product and Company Identification

MSDS Name:	ETHYL 3-FUROATE 99%
Catalog Numbers:	4.94
Synonyms:	
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

Flammable liquids (Category 3)


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

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

Flammable.

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

Label elements

Pictogram	
Signal word	Warning.
Hazard statement(s)	
H226	Highly flammable liquid and vapour.
Precautionary statement(s)	
P210	Keep away from heat/sparks/open flames/ hot surfaces. – No smoking.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting/equipment.
P280	Wear protective gloves/protective clothing/eye protection/ face protection.
P303+P361+P353	IF ON <u>SKIN</u> (or hair): Remove/Take off immediately all contaminated clothing. Rinse <u>skin</u> with water/shower.
P403+235	Store in a <u>well-ventilated</u> place. Keep cool.
P501	Dispose of contents/container to in accordance with

local/regional/national/international regulation.

According to European Directive 67/548/EEC as amended

Hazard symbol(s)



F	Flammable.
R-phrases(s)	
R10	Flammable.
S-phrases(s)	
S16	Keep away from sources of ignition – No smoking.
Other hazards	None.

Section 3 – Composition, Information on Ingredients

CAS#	Chemical Name:	%	EINECS#
614-98-2	ETHYL 3-FUROATE	99	210-403-5

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

General advice:	Consult a physician. Show this safety data sheet to the doctor in attendance.
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 of 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 spray, 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. Wear full protective suit.

Section 6 – Accidental Release Measures

Personal precautions:	Avoid breathing vapors, mist or gas. Protect against electrostatic charge.
Environmental precautions:	Do not let product enter drains.
Methods and materials for containment and cleaning up	Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

Section 7 – Handling and Storage

Precautions for safe handling:	Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.
Conditions for safe storage:	Store in cool place. 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. Recommended storage temperature: 2 - 8 °C

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:	Face shield and safety glasses.
Skin and body protection:	Choose 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:	Colourless to yellow
Safety data:	
pH	Not available
Melting Point:	Not available
Boiling Point:	93 - 95 °C / 35 mm Hg
Flash Point:	59 °C closed cup
Ignition temperature:	Not available
Explosion Limits: Lower:	Not available

Explosion Limits: Upper:	Not available
Solubility in water:	Not available
Partition coefficient: n-octanol/water	log Pow: 1,665
Density:	1.038 g/cm ³ at 25 °C
Refractive Index:	1.4600 - 1.4620
Molecular Formula:	C ₇ H ₈ O ₃
Molecular Weight:	140.14 g/mol

Section 10 – Stability and Reactivity

Chemical Stability:	Stabile under recommended storage conditions.
Conditions to Avoid:	Heat, flames and sparks.
Materials to avoid:	Strong oxidizing agents, strong bases.
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. Causes respiratory tract irritation.
Ingestion	May be harmful if swallowed.
Skin	May be harmful if absorbed through skin. May cause skin irritation.
Eyes	Causes 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

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	This material may be burned in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material.
Contaminated packaging	Dispose of as unused product.

Section 14 – Transport Information

	IATA ESTERS, N.O.S.	IMDG ESTERS, N.O.S.	RID/ADR ESTERS, N.O.S.
Proper shipping name:			
Hazard Class:	3	3	3
UN Number:	3272	3272	3272
Packing Group:	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	Highly flammable liquid and vapour.
F	Flammable.
R10	Highly flammable.

MSDS Creation Date: 05/4/2007

Revision #1 Date: 29/09/2011

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.