

MATERIAL SAFETY DATA SHEET
2-ETHYLTHIOPHENE 98%

Section 1 - Chemical Product and Company Identification

MSDS Name:	2-ETHYLTHIOPHENE 98%
Catalog Numbers:	7.22
Synonyms:	Thiophene, 2-ethyl-;2-Ethylthiophene
Company Identification:	Tau-Chem, Ltd. Nobelova 34, P.O. Box 29 836 05 Bratislava, Slovak Republic Phone: +421 2 44 452 252 Fax: +421 244 457 645
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

According to Regulation (EC) No 1272/2008

Flammable liquid (Category 2)

Acute toxicity, Inhalation (Category 4)

Acute toxicity, Dermal (Category 4)

Acute toxicity, Oral (Category 4)

Skin irritation (Category 2)

Eye irritation (Category 2)

Specific target organ toxicity – single exposure (Category 3)

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

Flammable. Irritating to eyes, respiratory system and skin.

Label elements

Pictogram



Signal word

Warning

Hazard statement(s)

H225

Highly Flammable liquid and vapor.

H315

Causes skin irritation.

H319

Causes serious eyes irritation.

H335

May cause respiratory irritation.

H242

Use only non-sparking tools.

Precautionary statement(s)

P210

Keep away from heat/sparks/open flames/hot surfaces. – No smoking.

P241	Use <u>explosion</u> -proof electrical/ <u>ventilating</u> /lighting/equipment.
P303+P361+P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P305+P351+P338	F IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P403+P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulation (to be specified).
Hazard symbol(s)	
F	Flammable.
Xi	Irritant.
R-phrases(s)	
R10	Flammable.
R36/37/38	Irritating to eyes, respiratory system and skin.
S-phrases(s)	
S26	In case of contact with eyes rinse immediately with plenty of water and seek for medical advice.
S37/39	Wear suitable gloves and eye/face protection.
Other hazards	None

Section 3 - Composition, Information on Ingredients

CAS#	Chemical Name:	%	EINECS#
872-55-9	2-ETHYLTHIOPHENE	98	212-830-2
Classification	Acute Tox. 4; Skin Irrit. 2; Eye Irrit. 2; STOT SE 3; H225,H315, H319,H335, H242 F; Xi; R10 - R36/37/38;		

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 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.

Section 6 - Accidental Release Measures

Personal precautions:	Use personal protective equipment. Avoid breathing dust, mist or gas. Ensure adequate ventilation.
Environmental precautions:	Do not let product enter drains.
Methods and materials for containment and cleaning up	Absorb with liquid-binding material (sand, diatomite, universal binders). Ensure adequate ventilation. Keep away from sources of ignition.

Section 7 - Handling and Storage

Precautions for safe handling:	Avoid contact with skin and eyes. Avoid inhalation of vapor. Keep container tightly sealed. Keep ignition sources away – Do not smoke. Protect against electrostatic charges. Fumes can combine with air to form an explosive mixture.
Conditions for safe storage:	Keep away from sources of ignition. Store in a cool, dry place. Store in a tightly closed container. Flammables-area. Light and moisture sensitive. Keep container tightly closed in a dry and ventilated place. Keep away from oxidizing agents. Keep under inert gas.

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

Physical State:	Clear liquid
Colour:	Colourless to slight yellow
Odor:	Stench – aromatic odor
pH:	Not available
Vapor Pressure:	Not available
Viscosity:	Not available
Boiling Point:	132 - 134 °C / 760 mm Hg
Freezing/Melting Point:	Not available
Autoignition Temperature:	Not available
Flash Point:	21 °C
Explosion Limits: Lower:	Not available
Explosion Limits: Upper:	Not available
Decomposition Temperature:	Not available
Solubility in water:	Insoluble
Specific Gravity/Density:	0.990 g/cm ³ at 20°C
Refractive Index:	1.5130
Molecular Formula:	C ₆ H ₈ S
Molecular Weight:	112.19

Section 10 - Stability and Reactivity

Chemical Stability:	This material may be sensitive to peroxide formation.
Conditions to Avoid:	Incompatible materials, ignition sources, moisture, heat.
Incompatibilities with Other Materials	Strong oxidizing agents, reducing agents, strong acids, strong bases, acids (mineral, non-oxidizing, e.g. hydrochloric acid, hydrofluoric acid,.
Hazardous Decomposition Products	Carbon oxides, Sulphur oxides (So _x)

Section 11 - Toxicological Information

Acute toxicity	No data available
Skin corrosion/irritation	Irritant for skin and mucous membranes.
Serious eye damage/eye irritation	Irritant effect.
Respiratory or skin sensitization	No sensitizing effect known.
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.	
RTECS#:	No data available.
Reproductive toxicity:	No data available
Specific target organ toxicity – single exposure	No data available

Specific target organ toxicity – repeated exposure	No data available
Aspiration hazard	No data available
Potential health effect:	
Inhalation	Harmful if inhaled. Causes respiratory tract irritation.
Ingestion	Harmful if swallowed.
Skin	Harmful if absorbed through skin. Causes skin irritation.
Eyes	Risk of serious damage to eyes.

Signs and Symptoms of Exposure

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

Additional Information

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	This material may be burned in a chemical incinerator equipped with an afterburner and a 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	IMDG	RID/ADR
Shipping Name:	FLAMMABLE LIQUID, N.O.S.	FLAMMABLE LIQUID, N.O.S.	FLAMMABLE LIQUID, N.O.S.
Hazard Class:	3	3	3
UN Number:	1993	1993	1993
Packing Group:	II	II	II
		EMS No: F-E; S-E	
		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

Acute Tox.	Acute Toxicity.
Skin Irrit.	Skin irritation.
Eye Irrit.	Eye irritation.
STOT SE	Specific target organ toxicity – single exposure
H225	Highly <u>Flammable</u> liquid and vapor.
H242	Use only non-sparking tools.
H315	Causes skin irritation.
H319	Causes serious eyes irritation.
H335	May cause respiratory irritation.
F	Flammable.
Xi	Irritant.
R10	Flammable.
R36/37/38	Irritating to eyes, respiratory system and skin.

MSDS Creation Date: 23/2/2007

Revision #1:03/08/2010

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.