

MATERIAL SAFETY DATA SHEET
1H-IMIDAZOLE-1-CARBODITHIOIC ACID METHYL ESTER 97%

Section 1 - Chemical Product and Company Identification

MSDS Name:	1H-IMIDAZOLE-1-CARBODITHIOIC ACID METHYL ESTER 97%
Catalog Numbers:	5.28
Synonyms:	1-(Methyldithiocarbonyl)imidazole 1H-Imidazole-1-carbodithioic acid methyl ester
Relevant identified uses of 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: +421 244 457 645
POISON CENTER:	National Toxicological Information Centre Limbová 5, 833 05 Bratislava,
Emergency Numbers Slovakia:	Phone: +42 2 54 774 166 Fax: +42 2 54 774 605

Section 2 - Hazards Identification

Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

According to Regulation (EC) No 1272/2008

Acute toxicity, Oral (Category 4)

Skin irritation (Category 2)

Serious eye damage (Category 1)

Specific target organ toxicity – single exposure (Category 3)

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

Harmful if swallowed. Irritating to respiratory system and skin. Risk of serious damage to eyes. May cause sensitization by skin contact.

Label elements

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

Pictogram



Signal word

Warning

Hazard statement(s)

H302

Harmful if swallowed.

H315

Causes skin irritation.

H317

May cause an allergic skin reaction.

H318

Causes serious eye damage.

H335

May cause respiratory irritation.

Precautionary statement(s)

P261	Avoid breathing dust/foam/mist/spray.
P280	Wear protective gloves/protective clothing.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P501	Dispose of contents/container to in accordance with local/regional/national/international regulation.

Hazard symbol(s)

According to European Directive 67/548/EEC as amended



Hazard symbol(s)

R-phrase(s)

R22	Harmful if swallowed.
R37/38	Irritating to respiratory system and skin.
R41	Risk of serious damage to eyes.
R43	May cause sensitization by skin contact.

S-phrase(s)

S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S37/38/39	Wear suitable protective clothing, gloves and eye/face protection.

Other hazards

None.

Section 3 - Composition, Information on Ingredients

CAS#	Chemical Name:	%	EINECS#
74734-11-5	1H-IMIDAZOLE-1-CARBODITHIOIC ACID METHYL ESTER	97	Unlisted

Classification Acute Tox. 4; Skin Irrit. 2; Eye Dam. 1; Skin Sens. 1; STOTSE 3
H302, H315, H317, H318, H335
Xn, R22 – R37/38 – R41 – R43

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. Depending on the intensity and duration of exposure, effects may vary from mild irritation to severe destruction of tissue.
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.

Depending on the intensity and duration of exposure, effects may vary from mild irritant, prolonged or repeated exposure can cause:
Damage to the eyes.

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. Keep unprotected persons away. Avoid breathing dust. Ensure adequate ventilation. Evacuate personnel to safe area.

Environmental precautions: Prevent further leakage or spillage if safe to do so.
Do not let product enter drains.

Methods and materials for containment and cleaning up Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

Section 7 – Handling and Storage

Precautions for safe handling: Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

Conditions for safe storage: Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

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: Viscous oil (Solid to ~30 °C)

Color: Yellow to brown

Safety data:

pH: Not available

Melting Point: 29 - 33°C

Boiling Point: 95 °C / 0.05 mm Hg

Flash Point: > 110 °C – closed cup

Ignition temperature: Not available

Explosion Limits: Lower: Not available

Explosion Limits: Upper: Not available

Solubility in water: Not available

Density: 1,294 g/cm³ at 25 °C

Partition coefficient:
n-octanol/water log Pow: 0,584

Refractive Index: Not available

Molecular Formula: C₅H₆N₂S₂

Molecular Weight: 158.24 g/mol

Section 10 – Stability and Reactivity

Chemical Stability: Stable under recommended storage conditions.

Conditions to Avoid: Data not available

Materials to avoid: Strong oxidizing agents, strong acids, strong bases.

Hazardous Decomposition Products: Hazardous decomposition products under fire conditions.
– Carbon oxides, nitrogen oxides, sulphur 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**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.

Causes skin irritation.

Eyes

Causes eye burns.

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	Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.
	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:		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.
Eye Dam	Eye damage.
Skin Irrit.	Skin irritation.
Skin Sens.	Skin sensitization
STOT SE	Specific target organ toxicity – single exposure.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.
Xn	Harmful.
R22	Harmful if swallowed.
R37/38	Irritating to respiratory system and skin.
R41	Risk of serious damage to eyes.
R43	May cause sensitization by skin contact.

MSDS Creation Date: 25/5/2007

Revision #1 Date : 18/04/2011

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.