

**MATERIAL SAFETY DATA SHEET**  
**METHOXYACETYL CHLORIDE, STABILIZED 95%**

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

<b>MSDS Name:</b>	METHOXYACETYL CHLORIDE, STABILIZED, 95%
<b>Catalog Numbers:</b>	9.129
<b>Synonyms:</b>	Methoxyacetic acid chloride
<b>Company Identification:</b>	Tau-Chem, Ltd. Nobelova 34, P.O. Box 29 836 05 Bratislava, Slovak Republic Phone: +421-2-44452252 Fax: +421-2-44457645
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: +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**

Acute Toxicity, Inhalation (Category 3)  
 Flammable liquid (Category 3)  
 Skin Corrosion (Category 1B)  
 Specific target organ toxicity – single exposure (Category 3)  
 Eye irritation (Category 2)

**Classification according to EU Directives 67/548/EEC or 1999/45/EC**

Flammable. Causes burns. Toxic if inhaled. Irritating to eyes, respiratory system and skin.  
 Moisture sensitive.

**Label elements**

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



Pictogram	
Signal word	Danger
Hazard statement(s)	
H226	Flammable liquid and vapour.
H314	Causes severe skin burns and eye damage
H319	Causes serious eye <u>irritation</u>
H331	Toxic if inhaled.
Precautionary statement(s)	

P210	Keep away from heat/sparks/opened flames/hot surfaces.- No smoking
P261	Avoid breathing dust/foam/mist/spray.
P243	Take precautionary measures against static discharge.
P281	Use <u>personal protective equipment</u> as required.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P309	IF exposed or if you feel unwell:
P310	Immediately call A POISON CENTER or doctor/physician.
P403+P235	Store in a <u>well-ventilated</u> place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulation.

Hazard symbol(s)

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

C	Corrosive
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R-phrases(s)

R10	Flammable
R20	Harmful by inhalation.
R34	Causes burns.

S-phrases(s)

S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S36/37/39	Wear suitable protective clothing, gloves and eye/face protection.
S45	In case of accident, or if you feel unwell, seek medical advice immediately (show the label where possible).

**Other hazards** None.

### Section 3 - Composition, Information on Ingredients

CAS#	Chemical Name:	%	EINECS#
38870-89-2	METHOXYACETYL CHLORIDE, STABILIZED	95	254-169-2

**Classification** Flam Liq. 3; Acute Tox. 3; Eye Irrit,2; Skin Corr. 1B; STOT SE 3  
H226,H314;H319;H331  
C; T;R10;R20;R34

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.

<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>	DO NOT USE WATER. For small (incipient) fires, use media such as “alcohol” foam, dry chemical, or carbon dioxide.
<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>	Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation.
<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 contact with skin and eyes. Avoid inhalation of vapor, mist and gas. Ensure adequate ventilation. Keep away from sources of ignition. – No smoking. Take measures to prevent to build 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. Keep away from sources of ignition. Store in a cool, dry place. Store in a dry area. Moisture sensitive. Store under nitrogen. Recommended storage temperature: 2-8 °C.

### 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>	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.
<b>Eye protection:</b>	Face shield and safety glasses.
<b>Skin and body protection:</b>	Choose body protection according to the amount and concentration of the dangerous substance at the work place.
<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
Smell:	Pungent

### Safety data:

<b>pH</b>	Not available
<b>Vapour pressure:</b>	22 mm Hg (25°C)
<b>Melting Point:</b>	Not available
<b>Boiling Point:</b>	112 - 113 °C / 760 mm Hg
<b>Flash Point:</b>	28 °C closed cup
<b>Ignition temperature:</b>	440 °C
<b>Explosion Limits: Lower:</b>	Not available
<b>Explosion Limits: Upper:</b>	Not available
<b>Solubility in water:</b>	Reacts with water
<b>Density:</b>	1.1870 g/cm <sup>3</sup>
<b>Refractive Index:</b>	1.4190 – 1.4220
<b>Molecular Formula:</b>	C <sub>3</sub> H <sub>5</sub> ClO <sub>2</sub>
<b>Molecular Weight:</b>	108.52 g/mol

## Section 10 – Stability and Reactivity

<b>Chemical Stability:</b>	Stabile under recommended storage conditions. Moisture sensitive.
<b>Conditions to Avoid:</b>	Light, excess heat, ignition sources, contact with water, exposure to moist air or water.
<b>Materials to avoid:</b>	Water, moisture, strong bases, alcohols.
<b>Hazardous Decomposition Products</b>	Hazardous decomposition products under fire conditions. – Carbon monoxide, carbon dioxide, phosgene, hydrogen chloride.

## Section 11 – Toxicological Information

<b>Acute toxicity</b>	LD50 Oral: 2456 mg/kg (rat) LD50 Dermal: >2000 mg/kg (rat)
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	LD50 Inhalation: 4100 mg/m <sup>3</sup> / 4 h (rat)
<b>Skin corrosion/irritation</b>	Corrosive effect on skin and mucous membranes.
<b>Serious eye damage/eye irritation</b>	Strong corrosive effect.
<b>Respiratory or skin sensitization</b>	No data available
<b>Germ cell mutagenicity</b>	No data available
<b>Carcinogenicity:</b>	No data available

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 – Cause respiratory tract 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>	Harmful if inhaled. Causes respiratory tract irritation.
<b>Ingestion</b>	Harmful if swallowed.
<b>Skin</b>	Harmful if absorbed through skin. May cause skin irritation.
<b>Eyes</b>	Causes serious eye irritation

#### Signs and Symptoms of Exposure

Causes respiratory tract irritation. Causes chemical burns to the respiratory tract. Inhalation may be fatal as a result of spasm, inflammation, edema of the larynx and bronchi, chemical pneumonitis and pulmonary edema. May cause burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea, and vomiting.

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

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

#### Additional Information

RTECS: Data not available.

### 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>	Observe all federal, state and local environmental regulations. 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

	IATA	IMDG	RID/ADR
<b>Shipping Name:</b>	CORROSIVE LIQUID FLAMMABLE, N.O.S.	CORROSIVE LIQUID FLAMMABLE, N.O.S.	CORROSIVE LIQUID FLAMMABLE, N.O.S.
<b>Hazard Class:</b>	8 (3)	8 (3)	8 (3)
<b>UN Number:</b>	2920	2920	2920
<b>Packing Group:</b>	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-phrases(s) mentioned in Section 3

Flam Liq.	Flammable Liquid
Eye Irrit	Eye Irritation.
Skin Corr	Skin Corrosion.
Acute Tox.	Acute Toxicity
STOT SE 3	Specific target organ toxicity- single exposure.
H226	Flammable liquid and vapour.
H314	Causes severe skin burns and eye damage
H319	Causes serious eye <u>irritation</u>
H331	Toxic if inhaled.
C	Corrosive
T	Toxic
R10	Flammable
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R34	Causes burns.
S26	In case of contact wit eyes, rinse immediately with plenty of water and seek medical advice.
S36/37/39	Wear suitable protective clothing, gloves and eye/face protection.
S45	In case of accident, or if you feel unwell, seek medical advice immediately (show the label where possible).

**MSDS Creation Date:** 25/01/2010

**Revision #2 Date:**17/08/2011

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.