

MATERIAL SAFETY DATA SHEET
N-CYANOACETYL URETHANE 99%

Section 1 - Chemical Product and Company Identification

MSDS Name:	N-CYANOACETYL URETHANE 99%
Catalog Numbers:	9.138
Synonyms:	Ethyl cyanoacetylcarbamate, Cyanoacetylurethan
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

According to Regulation (EC) No 1272/2008

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.

Harmful by inhalation, in contact with skin and if swallowed. Irritating to eyes, respiratory system and skin.

Label elements

Pictogram



Signal word

Warning

Hazard statement(s)

H302

Harmful if swallowed.

H312

Harmful in contact with skin.

H315

Causes skin irritation.

H319

Causes serious eye irritation.

H332

Harmful if inhaled.

H335

May cause respiratory irritation.

Precautionary statement(s)

P261

Avoid breathing dust.

P271	Use only outdoors or in a <u>well-ventilated</u> area
P280	Wear protective gloves/protective clothing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313	If eye irritation persists: Get medical advice/attention.
P301+P312	IF <u>SWALLOWED</u> : Call a <u>POISON CENTER</u> or doctor/physician if you feel unwell.
P304+P340	IF <u>INHALED</u> : Remove victim to fresh <u>air</u> and keep at rest in a position comfortable for <u>breathing</u> .
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P332+P313	If skin irritation occurs: Get medical advice/ attention.
P501	Dispose of contents/container in accordance with local/regional/national/international regulation.
Hazard symbol(s)	
Xn	Harmful.
R-phrases(s)	
R20/21/22	Harmful by inhalation, in contact with skin and if swallowed.
R36/37/38	<u>Irritating</u> to eyes, <u>respiratory</u> system and skin.
S-phrases(s)	
S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S37/39	Wear suitable gloves and eye/face protection.
Other hazards	The toxicological properties have not been fully investigated.

Section 3 - Composition, Information on Ingredients

CAS#	Chemical Name:	%	EINECS#
6629-04-5	N-CYANOACETYLURETHANE	99	229-615-4

Classification Acute Tox. 4; Skin Irrit. 2; Eye Irrit. 2; STOT SE 3; H302, H312, H315, H319, H332, H335, Xn, R20/21/22 - 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. Ensure adequate ventilation.
Environmental precautions:	Do not let product enter drains.
Methods and materials for containment and cleaning up	Vacuum or sweep up material and place into a suitable disposal container. Clean up spills immediately, observing precautions in the Protective Equipment section. Keep in suitable, closed containers for disposal.

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.
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	
Physical State:	Crystalline
Color:	White to off-white
Odor:	Not available
pH:	Not available
Vapor Pressure:	Not available
Viscosity:	Not available
Boiling Point:	Not available
Freezing/Melting Point:	167 - 169 °C
Autoignition Temperature:	Not available
Flash Point:	Not available
Explosion Limits: Lower:	Not available
Explosion Limits: Upper:	Not available
Decomposition Temperature:	Not available
Solubility in water:	Not available
Specific Gravity/Density:	Not available
Molecular Formula:	C ₆ H ₈ N ₂ O ₃
Molecular Weight:	156.14

Section 10 – Stability and Reactivity

Chemical Stability:	Stable under recommended storage conditions.
Conditions to Avoid:	Incompatible materials, strong oxidants.
Materials to avoid:	Strong oxidizing and reducing agents, strong acids, strong bases.
Hazardous Decomposition Products	Hazardous decomposition products under fire conditions. – Carbon oxides, Nitrogen oxides (NO _x).

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	Prolonged or repeated exposure may cause allergic reactions in certain sensitive individuals.
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	Harmful if inhaled. Causes respiratory tract irritation.
Ingestion	Harmful if swallowed.
Skin	Harmful if absorbed through skin. Causes 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: EZ3480000

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. 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:	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

Text of H-code(s) and R-phrase(s) mentioned in Section 3

Acute Tox.	Acute toxicity.
Eye Irrit.	Eye irritation.
Skin Irrit.	Skin irritation.
STOT SE	Specific target organ toxicity – single exposure
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
Xn	Harmful.
R20/21/22	Harmful by inhalation, in contact with skin and if swallowed.
R36/37/38	Irritating to eyes, respiratory system and skin.

MSDS Creation Date: 28/3/2007

Revision #1 Date: 21/7/2010

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.