

MATERIAL SAFETY DATA SHEET
N-(3'-AMINOPROPYL)-2-PYRROLIDINONE 95%

Section 1 - Chemical Product and Company Identification

MSDS Name: N-(3'-Aminopropyl)-2-pyrrolidinone 95 %
Catalog Numbers: 10.2
Synonyms: 1-(3-AMINO-PROPYL)-PYRROLIDIN-2-ONE;
 N-(3'-AMINOPROPYL)-2-PYRROLIDINONE
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

Relevant identified uses of substance or mixture and uses advised against
 Identified uses Laboratory chemicals, Manufacture of substances

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 according to Regulation (EC) No 1272/2008

Classification of the substance or mixture

Skin corrosion, (Category 1B)


Eye irritation (Category 2)

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

Causes burns.

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

Label elements

Pictogram	
Signal word	Danger
Hazard statement(s)	
H314	Causes severe skin burns and eye damage.
H319	Causes serious eye irritation
H315	Causes skin irritation
H335	May cause respiratory irritation
Precautionary statement(s)	
P280	Wear protective gloves/protective clothing.
P303+P361+P353	IF ON <u>SKIN</u> (or hair): Remove/Take off immediately all contaminated clothing. Rinse <u>skin</u> with water/shower.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER or doctor/physician.

P405 Store locked up.

According to European Directive 67/548/EEC as amended

Hazard symbol(s)

C Corrosive.

R-phrases(s)

R34 Causes burns.

S-phrases(s)

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S27 Take off immediately all contaminated clothing.

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#
7663-77-6	N-(3'-Aminopropyl)-2-pyrrolidinone	95	231-632-7

Classification Skin Corr. 1B; Eye Irrit. 2
H314;H319;H335;H315
C, 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.

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 vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe area.
Environmental precautions:	Do not let product enter drains.
Methods and materials for containment and cleaning up:	Soak up with an inert absorbent material and dispose of as a hazardous waste. Keep in suitable, closed containers for disposal.

Section 7 – Handling and Storage

Precautions for safe handling:	Avoid inhalation or vapor or mist. 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. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

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.
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:	
Safety data:	
pH	Not available
Melting Point:	Not available

Boiling Point:	120 – 123°C at 1 hPa– lit.
Flash Point:	113°C –closed cup
Ignition temperature:	Not available
Explosion Limits: Lower:	Not available
Explosion Limits: Upper:	Not available
Solubility in water:	Not available
Density:	1.014 g/cm ³ at 25°C
Refractive Index:	1.4970-1.4990 at 20°C
Molecular Formula:	C ₇ H ₁₄ N ₂ O
Molecular Weight:	142.2 g/mol

Section 10 – Stability and Reactivity

Chemical Stability:	Stabile under recommended storage conditions.
Conditions to Avoid:	No data available.
Materials to avoid:	Acids, Acid chlorides, Acid anhydrides, Oxidizing agents, Chloroformates.
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	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	No data available
Specific target organ toxicity – repeated exposure	No data available
Aspiration hazard	No data available
Potential health effect:	
Inhalation	May be harmful if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract.
Ingestion	May be harmful if swallowed. Causes burns.
Skin	May be harmful if absorbed through skin. Causes skin burns.
Eyes	Causes eye burns.
Signs and Symptoms of Exposure	

Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract, eyes and skin, spasm, inflammation and edema for larynx, inflammation and edema for the bronchi, pneumonitis, pulmonary edema, burning sensation, Cough, Wheezing, laryngitis, Shortenes of breath, Headache, nausea.

Additional Information

RTECS: UY5739500

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. Dissolve or mix the material with a combustive solvent and burn in a chemical incinerator with an afterburner and scrubber.
Contaminated packaging	Dispose of as unused product.

Section 14 - Transport Information

	IATA	IMDG	RID/ADR
Shipping Name:	CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.	CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.	CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.
Hazard Class:	8	8	8
UN Number:	3267	3267	3267
Packing Group:	II	II	II
		EMS No: F-A; S-B	
		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

H314	Causes severe skin burns and eye damage.
H319	Causes serious eye irritation

H315	Causes skin irritation
H335	May cause respiratory irritation
Skin Corr.	Skin corrosion.
C	Corrosive.
R34	Causes burns.

MSDS Creation Date: 27/7/2007

Revision #1 Date: 14/06/2010

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.