

**MATERIAL SAFETY DATA SHEET**  
**1-PHENYL-1-CYCLOHEXANOL 99%**

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

<b>MSDS Name:</b>	1-PHENYL-1-CYCLOHEXANOL 99%
<b>Catalog Numbers:</b>	9.122
<b>Synonyms:</b>	1-Phenylcyclohexanol
<b>Company Identification:</b>	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
<b>POISON CENTER:</b>	National Toxicological Information Centre Limbová 5, 833 05 Bratislava,
<b>Emergency Numbers Slovakia:</b>	Phone: +421 2 54 774 166 Fax: +421 2 54 774 605

**Section 2 - Hazards Identification**

**Classification of the substance or mixture**

**Classification 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.**

Risk of explosion by shock, friction, fire and other sources of ignition. Harmful if swallowed. Irritating to respiratory system and skin. Risk of serious damage of eyes.

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

**Label elements**

Pictogram



Signal word

Danger

Hazard statement(s)

H302

Harmful if swallowed.

H312

Harmful in contact with skin.

H315

Causes skin irritation.

H318

Causes serious eye damage.

H335

May cause respiratory irritation.

EUH044

Risk of explosion if heated under confinement.

Precautionary statement(s)

P261	Avoid breathing dust/foam/mist/spray.
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.

According to European Directive 67/548/EEC as amended



Hazard symbol(s)

Xn	Harmful.
R-phrases(s)	
R2	Risk of explosion by shock, friction, fire and other sources of ignition.
R22	Harmful if swallowed.
R37/38	Irritating to respiratory system and skin.
R41	Risk of serious damage of eyes.
S-phrases(s)	
S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S39	Wear eye/face protection.
Other hazards	None.

### Section 3 - Composition, Information on Ingredients

CAS#	Chemical Name:	%	EINECS#
1589-60-2	1-PHENYL-1-CYCLOHEXANOL	99	216-456-0

**Classification** Acute Tox. 4; Skin Irrit. 2; Eye Dam. 1; STOT SE 3  
H302, H315, H318, H335, EUH044  
Xn, R2 - R22 - R37/38 - R41

For the full text of the H-Statements mentioned in this Section, see Section 16.

### Section 4 – First Aid Measures

<b>General advice:</b>	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>	Use water spray, alcohol-resistant 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.

## Section 6 – Accidental Release Measures

<b>Personal precautions:</b>	Use personal protective equipment. Avoid dust formation. Avoid breathing vapor, mist or dust. Ensure adequate ventilation. Evacuate personnel to the safe areas. Avoid breathing dust.
<b>Environmental precautions:</b>	Do not let product enter drains.
<b>Methods and materials for containment and cleaning up:</b>	Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

## Section 7 – Handling and Storage

<b>Precautions for safe handling:</b>	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.
<b>Conditions for safe storage:</b>	Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

## 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

<b>Appearance</b>	
Form:	Powder

Color:	Light yellow
<b>Safety data:</b>	
pH	Not available
Melting Point:	59-62 °C - lit.
Boiling Point:	153°C at 27 hPa
Flash Point:	Not available
Ignition temperature:	Not available
Explosion Limits: Lower:	Not available
Explosion Limits: Upper:	Not available
Solubility in water:	Not available
Density:	Not available
Molecular Formula:	C <sub>12</sub> H <sub>16</sub> O
Molecular Weight:	176.26 g/mol

### Section 10 – Stability and Reactivity

<b>Chemical Stability:</b>	Stabile under recommended storage conditions.
<b>Conditions to Avoid:</b>	No data available.
<b>Materials to avoid:</b>	Oxidizing agents.
<b>Hazardous Decomposition Products</b>	Hazardous decomposition products under fire conditions – Carbon oxides.

### Section 11 – Toxicological Information

<b>Acute toxicity</b>	LD50 Intraperitoneal – mouse 705 mg/kg
<b>Skin corrosion/irritation</b>	No data available
<b>Serious eye damage/eye irritation</b>	No data available
<b>Respiratory or skin sensitization</b>	No data available
<b>Germ cell mutagenicity</b>	No data available
<b>Carcinogenicity:</b>	
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 – May cause respiratory 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>	May be harmful if inhaled. May cause respiratory tract irritation.
<b>Ingestion</b>	Harmful if swallowed.
<b>Skin</b>	May be harmful if absorbed through skin .Causes skin irritation.
<b>Eyes</b>	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: GV0699900

## 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>	Offer surplus and non-recyclable solutions to a licensed professional waste disposal service to dispose of this material. Observe all federal, state and local environmental regulations.
<b>Contaminated packaging</b>	Dispose of as unused product.

## Section 14 – Transport Information

	<b>IATA</b>	<b>IMDG</b>	<b>RID/ADR</b>
<b>Shipping Name:</b>	Non dangerous goods	Non dangerous goods	Non dangerous goods
<b>Hazard Class:</b>			
<b>UN Number:</b>			
<b>Packing Group:</b>			

## 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.
EUH044	Risk of explosion if heated under confinement.
Eye Dam.	Serious eye damage.

H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.
Xn	Harmful.
R2	Risk of explosion by shock, friction, fire and other sources of ignition.
R22	Harmful if swallowed.
R37/38	Irritating to respiratory system and skin.
R41	Risk of serious damage of eyes.

**MSDS Creation Date:** 29/5/2007

**Revision #1 Date**17/06/2010

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.