

SAFETY DATA SHEET  
TETRAMETHYL-1,3-CYCLOBUTANEDIONE 99%

### Section 1 - Chemical Product and Company Identification

#### 1.1 Product identifiers

Product name: Tetramethyl-1,3-cyclobutanedione, 99%  
CAS-No. 933-52-8  
EINECS-No. 213-2696  
Catalog Numbers: 99.95

#### Synonyms:

#### 1.2 Relevant identified uses of substance or mixture and uses advised against

Identified uses Laboratory chemicals, Manufacture of substances

#### 1.3. Details of the supplier of the safety data sheet

Company: TAU-CHEM, Ltd.  
Nobelova 34, P.O. Box 29  
836 05 Bratislava, Slovak Republic  
Telephone +421 2 44 452 252  
Fax +421 2 44 457 645

**POISON CENTER:** National Toxicological Information Centre  
Limbová 5, 833 05 Bratislava,

**1.4. Emergency telephone:** +421 2 54 774 166

### Section 2 - Hazards Identification

#### 2.1 Classification of the substance or mixture

##### Classification according to Regulation (EC) No 1272/2008

Not a dangerous substance according to GHS.

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

This substance is not classified as dangerous according to Directive 67/548/EEC.

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

#### 2.2 Label elements

The product does not need to be labelled in accordance with EC directives or respective national law.

Signal word None

Hazard statement(s)

Precautionary statement(s)

Hazard symbol(s)

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

Hazard symbol(s) None.

## 2.3 Other hazards

None.

## Section 3 - Composition, Information on Ingredients

### 3.1 Substances

CAS#	Chemical Name:	%	EINECS#
933-52-8	TETRAMETHYL-1,3-CYCLOBUTANEDIONE	99	213-269-6
<b>Synonyms</b>	4-Phenyl-1,2,4-triazolidine-3,5-dione		
<b>Formula</b>	C <sub>8</sub> H <sub>12</sub> O <sub>2</sub>		
<b>Molecular weight</b>	140.18 g/mol		

## Section 4 - First Aid Measures

### 4.1 Description of 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.

### 4.2 Most important symptoms and effects, both acute and delayed

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

### 4.3 Indication of any immediate medical attention and special treatment needed

No data available

## Section 5 - Firefighting Measures

### 5.1 Extinguishing media

#### Suitable extinguishing media:

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

### 5.2 Special hazards arising from the substance or mixture

Carbon oxides.

### 5.3 Advice for firefighters

Wear self-contained apparatus breathing apparatus for firefighting if necessary.

### 5.4 Further information

No data available

## Section 6 - Accidental Release Measures

### **6.1 Personal precautions, protective equipment and emergency procedures**

Avoid dust formation. Avoid breathing vapours, mist or gas.

### **6.2 Environmental precautions**

Do not let product enter drains

### **6.3 Methods and materials for containment and cleaning up**

Sweep up and shovel. Keep in suitable, closed containers for disposal.

### **6.4 Reference to other sections**

For disposal see section 13.

## **Section 7 - Handling and Storage**

### **7.1 Precautions for safe handling:**

Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

### **7.2 Conditions for safe storage**

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

### **7.3 Specific end uses**

No data available

## **Section 8 - Exposure Controls, Personal Protection**

### **8.1 Control parameters**

#### **Component with workplace control parameters**

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

### **8.2 Exposure controls**

#### **Appropriate engineering controls**

General industrial hygiene practice

#### **Personal protective equipment**

##### **Eye/face protection**

Safety glasses with side-shields conforming to EN 166. Use equipment for eye protection tested and approved under appropriate

##### **Skin protection**

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

##### **Body protection**

Choose body protection in relation to its type, to the concentration and amount of dangerous substances and to the specific workplace. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace

##### **Respiratory protection**

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

## Section 9 - Physical and Chemical Properties

### 9.1 Information on basic physical and chemical properties

a) Appearance	Form: solid Colour: white
b) Odour	No data available
c) Odour Threshold	No data available
d) pH	No data available
e) Melting point/freezing point	112 - 116 °C
f) Initial boiling point and boiling point range:	120-122°/150mm
g) Flash Point:	No data available
h) Evaporation rate	No data available
i) Flammability (solid, gas)	No data available
j) Upper/lower flammability or explosive limits	No data available
k) Vapour pressure	No data available
l) Vapour density	No data available
m) Relative density	No data available
n) Water solubility	No data available
o) Partition coefficient: n-octanol/water	No data available
p) Autoignition temperature	No data available
q) Decomposition temperature	No data available
r) Viscosity	No data available
s) Explosives properties	No data available
t) Oxidizing properties	No data available

### 9.2 Other safety information

No data available

## Section 10 - Stability and Reactivity

### 10.1 Reactivity

No data available

### 10.2 Chemical stability

No data available

### 10.3 Possibility of hazardous reaction

No data available

### 10.4 Conditions to Avoid

No data available

### 10.5 Incompatible materials

Strong oxidizing agents.

### 10.6 Hazardous Decomposition Products

Other decomposition products – no data available

## Section 11 - Toxicological Information

### 11.1 Information on toxicological effects

<b>Acute toxicity</b>	No data available
<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>	Carcinogenicity - mouse - Subcutaneous Tumorigenic:Neoplastic by RTECS criteria. Tumorigenic:Tumors at site or application

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>	No data available
<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>	May be harmful if swallowed.
<b>Skin</b>	May be harmful if absorbed through skin. May cause skin irritation.
<b>Eyes</b>	May cause 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: GU1775000

## Section 12 – Ecological Information

<b>12.1 Toxicity</b>	No data available
<b>12.2 Persistence and degradability</b>	No data available
<b>12.3 Bioaccumulative potential</b>	No data available
<b>12.4 Mobility in soil</b>	No data available
<b>12.5 PBT and vPvB assessment</b>	No data available
<b>12.6 Other adverse effects</b>	No data available

## Section 13 - Disposal Considerations

### 13.1 Waste treatment methods

**Product** Observe all federal, state and local environmental regulations.

