

SAFETY DATA SHEET  
3-METHYL-2-OXOBUTANOIC ACID, SODIUM SALT 98%

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

**1.1 Product identifiers**

Product name: 3-METHYL-2-OXOBUTANOIC ACID, SODIUM SALT 98%  
CAS-No. 3715-29-5  
EINECS-No. 223-062-2  
Catalog Numbers: 9.121  
**Synonyms:** Sodium 3-methyl-2-oxobutyrate, Ketovaline sodium salt

**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**

This product does not need to be labeled in accordance with EC directives or respective national laws.

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.
S-phrase(s)	
S24/25	Avoid contact with skin and eyes.
<b>2.3 Other hazards</b>	None.

### Section 3 - Composition, Information on Ingredients

#### 3.1 Substances

CAS#	Chemical Name:	%	EINECS#
3715-29-5	3-METHYL-2-OXOBUTANOIC ACID, SODIUM SALT	98	223-062-2
<b>Synonyms</b>	Sodium 3-methyl-2-oxobutyrate		
<b>Formula</b>	C <sub>5</sub> H <sub>7</sub> NaO <sub>3</sub>		
<b>Molecular weight</b>	138.09 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

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation.

### 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:

Avoid contact with skin and eyes. Avoid inhalation of vapours or mist or dust. Normal measures for preventive fire protection.

### 7.2 Conditions for safe storage

Store in cool, dry place. Keep container tightly closed in a dry and well-ventilated place. Recommended storage temperature 0-5°C.

### 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 and 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. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

##### 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

Where protection from nuisance levels of dust 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, crystalline powder Colour: White to slight yellow
b) Odour	No data available
c) Odour Threshold	No data available
d) pH	No data available
e) Melting point/freezing point	227 - 231 °C – lit.
f) Initial boiling point and boiling point range:	No data available
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

**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.

May cause respiratory tract irritation.

##### **Ingestion**

May be harmful if swallowed.

##### **Skin**

May be harmful if absorbed through skin.

May cause skin irritation.

##### **Eyes**

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: No data available

## Section 12 – Ecological Information

**12.1 Toxicity** No data available

**12.2 Persistence and degradability** No data available

**12.3 Bioaccumulative potential** No data available

**12.4 Mobility in soil** No data available

**12.5 PBT and vPvB assessment** No data available

**12.6 Other adverse effects** No data available

## Section 13 - Disposal Considerations

### 13.1 Waste treatment methods

**Product** Observe all federal, state and local environmental regulations.  
**Contaminated packaging** Dispose of as unused product.

## Section 14 - Transport Information

### 14.1 UN number

ADR/RID: - IMDG: - IATA: -

### 14.2 UN proper shipping name

ADR/RID: Not dangerous goods  
IMDG: Not dangerous goods  
IATA: Not dangerous goods

### 14.3 Transport hazard class(es)

ADR/RID: - IMDG: - IATA: -

### 14.4 Packaging group

ADR/RID: - IMDG: - IATA: -

### 14.5 Environmental hazards

ADR/RID: - IMDG: - IATA: -

### 14.6 Special precautions for user

No data available

## Section 15 - Regulatory Information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

No data available

### 15.6 Chemical Safety Assessment

No data available

## Section 16 - Other Information

**SDS version:** 3

**Revision date:** 27/02/2012

### Further information

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.