



# Safety Data Sheet: Penicillic acid - Fermentek

## 1. Identification of the substance/mixture and of the Company

<b>Product identifiers</b>	
Product name	<b>Penicillic acid - Fermentek</b>
Product Code	<b>PEN</b>
CAS #	<b>90-65-3</b>
EC/ REACH Number	<b>202-008-1</b>
<b>Intended uses of the substance or mixture and uses advised against</b>	
<b>Intended use</b>	<b>Uses advised against:</b>
<b>Only For Research and/or Development</b>	Not for drug, Not to be used in humans or animals. Not food additive
<b>Details of the supplier of the safety data sheet</b>	
<b>FERMENTEK Ltd</b> 4 Yatziv street, POB 47120 Jerusalem 97800, Israel	Tel: +972 2 5853953 Fax: +972 2 5853943 eMail: fermentek@fermentek.com Website: www.fermentek.com
This company is the manufacturer of the product, and the supplier of the safety data sheet	
<b>REACH</b>	A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.
<b>Emergency Telephone number</b>	
For chemical emergency spill, leak, fire, exposure, or accident calls CHEMTREC day or night: Within USA and Canada: 1-800-424-9300. Outside USA and Canada: +1 703-527-3887	

## 2. Hazards identification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

### Classification of the substance or mixture

#### GHS Classification:

Acute Toxicity, Oral

(Category 4)

#### GHS Label elements, including precautionary statements

Pictogram: Signal word: {Warning}

#### Hazard Statements

H302: Harmful if swallowed.

#### Precautionary Statements- Prevention

Wash face, hands and any exposed skin thoroughly after handling.  
Do not eat, drink or smoke when using this product.

#### Precautionary Statements - Response

If swallowed: call a poison center or doctor/physician if you feel unwell.  
Rinse mouth.  
IF exposed or concerned: Get medical advice/attention.

#### Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant.





### 3. Composition/information on ingredients

#### Substance

Molecular Formula:	C8H10O4
Molecular Weight:	170.16
CAS Registry #:	90-65-3
EC#:	202-008-1
Synonyms	<ul style="list-style-type: none"><li>• Penicillic acid</li><li>• 3-methoxy-5-methyl-4-oxohexa-2,5-dienoic acid</li></ul>
Concentration (W/W)	>99%
Inhalation LC50	Unknown
ORAL LD50	
DERMAL LD50	Unknown

#### Mixture

Not mixture.

### 4. First Aid Measures

<b>General advice</b>	Consult a doctor, as medical attention may be required. If symptoms persist, call a physician.
<b>Eye contact:</b>	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician.
<b>Skin Contact:</b>	Immediate medical attention is required. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Wash contaminated clothing before reuse. Wash off immediately with plenty of water. If skin irritation persists, call a physician.
<b>Ingestion:</b>	Do NOT induce vomiting. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person. Drink plenty of water. Clean mouth with water and drink afterwards plenty of water. Call a physician.
<b>Inhalation:</b>	Immediate medical attention is required. Remove to fresh air. If not breathing, give artificial respiration. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Artificial respiration and/or oxygen may be necessary. Call a physician. Move to fresh air in case of accidental inhalation of vapors. If symptoms persist, call a physician.
<b>Self-protection of the first aider:</b>	Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination.
<b>Most important symptoms:</b>	No information available.
<b>Note to physicians:</b>	Treat symptomatically.

### 5. Fire-fighting measures

#### Extinguishing media

#### Suitable extinguishing media

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



### Special hazards arising from the substance or mixture

Carbon oxides, Nitrogene oxides.

### Advice for firefighters

Wear self-contained breathing apparatus for fire fighting if necessary. Wear protective suit

### Further information

No data available

## 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

Personal precautions Use personal protective equipment as required. Keep people away from and upwind of spill/leak.

### Environmental precautions

Environmental precautions Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

### Methods and material for containment and cleaning up

Methods for containment: Prevent further leakage or spillage if safe to do so. Cover powder spill with plastic sheet or tarp to minimize spreading. Dike far ahead of liquid spill for later disposal.

Methods for cleaning up: Cover liquid spill with sand, earth or other non-combustible absorbent material (e.g. sand, earth, diatomaceous earth, and vermiculite). Cover powder spill with plastic sheet or tarp to minimize spreading. Sweep up and shovel into suitable containers for disposal.

## 7. Handling and storage

### Precautions for safe handling

Advice on safe handling: Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Wash contaminated clothing before reuse. Do not breathe dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using this product.

### Conditions for safe storage, including any incompatibilities

Storage Conditions: Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children. Store at -20 °C.

Incompatible materials: None known based on information available.

## 8. Exposure Controls/Personal Protection

No occupational exposure limits are listed for this material.

OSHA Permissible Exposure Limits	No Data Available
NIOSH Recommended Exposure Limits	No Data Available
ACGIH Threshold Limit Values	No Data Available

### Exposure controls

#### Appropriate engineering controls

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. Use fumehood for routine work.



**Personal protective equipment**

The employer/end user, prior to use of this product should perform all recommendations below are advisory in nature and a risk assessment. The type of protective equipment must be selected based on the amount and concentration of the dangerous material being used in the workplace.

[PPE=Personal Protection Equipment]

<b>PPE: Respiratory protection</b>	Where risk assessment shows air-purifying respirators are appropriate, use a full-face particle respirator type N100 (US) or type P3 (EN 143) 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>PPE: Hand Protection:</b>	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal techniques to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices, and wash and dry hands
<b>PPE: Eye Protection:</b>	Use a face shield and safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU)
<b>PPE: Skin and Body Protection:</b>	Handle with gloves. Wear protective clothing. Choose body protection according to the amount and concentration of the dangerous substance at the work place. When deemed needed according to the concentration and amount of this product, use a complete body suit

**9. Physical and chemical properties**

**Physical / chemical properties**

Physical State at room temperature	Solid / powder
Color	Off White
Melting/freezing point	70-90°C

**No further safety-relevant information is available**

**10. Stability and reactivity**

<b>Reactivity:</b>	No information available.
<b>Chemical stability:</b>	Stable under normal conditions.
<b>Conditions to avoid</b>	Heat, flames and sparks, high temperatures
<b>Incompatible materials</b>	Strong reducers and oxidizers
<b>Possibility of Hazardous Reactions</b>	None under normal processing
<b>Hazardous decomposition products:</b>	Carbon monoxide CO, Carbon dioxide (CO2).

**11. Toxicological information**

**Information on likely routes of exposure**

<b>Acute Toxicity</b>	<b>ATEmix (oral) calculated value: 500 mg/kg</b>
<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>Aspiration hazard:</b>	no data available

**Potential Health Effects**

<b>Inhalation:</b>	no data available
<b>Skin</b>	no data available





<b>Eyes:</b>	no data available
<b>Ingestion</b>	no data available
<b>Carcinogenicity:</b>	This compound has been designated by the IARC as Group 3 <i>"Not classifiable as a human carcinogen"</i>
<b>Reproductive toxicity/Teratogenicity:</b>	no data available .
<b>Signs and Symptoms of Exposure</b>	no data available
<b>Additional information:</b>	no data available .

## 12. Ecological Information

<b>Eco-Toxicity</b>	No further relevant information available
<b>Other adverse effects</b>	No further relevant information available.

## 13. Disposal Considerations

Waste treatment methods	
<b>Waste from residues / unused products</b>	Dispose of in accordance with local regulations
<b>Contaminated packaging</b>	Dispose of as unused product

## 14. Transport information

### UN number, Proper Shipping Name, Transport Hazard Class, packing group

	US DOT	ADR/RID:	IMDG:	IATA
<b>UN Number</b> <b>UN proper shipping name</b>	UN#: None Not dangerous goods	UN#: None Not dangerous goods	UN#: None Not dangerous goods	UN#: None Not dangerous goods
<b>Transport Hazard Class</b> <b>&amp; Packing Group</b>	Not dangerous goods Not regulated	Not dangerous goods Not regulated	Not dangerous goods Not regulated	Not dangerous goods Not regulated

## 15. Regulatory information

### Safety, health and environmental regulations/legislation

<b>USA EPA / TSCA</b>	This product is not listed on the USA EPA TSCA
<b>EU ECHA Status</b>	This product is registered with the EU ECHA; No: <b>202-008-1</b>
<b>CA: DSL/NDSL Status</b>	This product is not listed on the Canadian DSL/NDSL

#### SARA 302 Components

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

#### SARA 313 Components

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

#### SARA 311/312 Hazards

Acute Health Hazard, Chronic Health Hazard

#### Other Information

NFPA			HMIS	
Health hazards	2		Health hazards	1
Flammability	1		Flammability	1
Stability	0		Physical hazards	0



Physical /chemical properties -

Personal protection -

## 16. Other information

**Date of revision: 20 february 2017**

### Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given here is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of SDS