

# SAFETY DATA SHEET

## 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1. Product identifiers

Product name: Penicillin G potassium salt, Powder

Product number: P06-08025P, P06-08100P

Brand: PAN Biotech

### 1.2. Relevant identified uses of the 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: PAN Biotech GmbH  
Am Gewerbepark 6  
94501 Aidenbach  
GERMANY

Telephone: +49-(0)8543-6016-30

Fax: +49-(0)8543-6016-49

E-mail: info@pan-biotech.de

### 1.4. Emergency telephone number

Emergency phone: +49-(0)8543-6016-30 or +49 151 51557123

## 2. HAZARDS IDENTIFICATION

### 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Skin Sens. 1A, H317

Resp. Sens. 1, H334

### 2.2. Label Elements

Labelling according Regulation (EC) No 1272/2008

Pictogram



Signal word: Danger

#### Hazard statements

H317: May cause an allergic skin reaction

H334: May cause allergy or asthma symptoms of breathing difficulties if inhaled.

#### Precautionary statements

P261: Avoid breathing dust/fume/gas/mist/vapours/spray.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

- P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.
- P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.
- P501 Dispose of content and container in accordance with all local, regional, national and ^ international regulations.

### 2.3. Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1. Substance

Component	CAS-No.	Classification	Concentration
Penicillin G	113-98-4	Skin Sens. 1A H317	<= 100 %
Potassium salt,		Resp. Sens. 1 H334	

## 4. FIRST AID MEASURES

### 4.1. Description of first aid measures

#### If inhaled

If breathed in, move person into fresh air. If breathing becomes difficult, call a physician. If not breathing, give artificial respiration.

#### In case of skin contact

**In case of contact, immediately wash skin with soap and copious amounts of water.** Remove all contaminated clothing immediately. In case of skin irritation or rash: Seek medical advice/medical help.

#### In case of eye contact

In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician if symptoms persist.

#### If swallowed

If swallowed, wash out mouth with water provided person is conscious. Drink 1 glass of water in small sips (dilution effect). If you feel unwell, seek medical advice/medical help.

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

No data and symptoms known.

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

Symptomatic treatment.

## 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, Nitrogen oxides (NOx), Sulphur oxides, Potassium oxides.

### 5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective clothing for firefighting if necessary.

## 6. ACCIDENTAL RELEASE MEASURES

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

Use personal protective equipment. Avoid dust formation. Do not inhale vapours/mist/gas. Provide adequate ventilation. Bringing people to safety. Avoid inhaling dust.

#### **6.2. Environmental precautions**

Do not let product enter drains

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

Absorb dust-free and store dust-free. Sweep up and scoop up.

Keep in suitable, closed containers for disposal.

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

See Section 5 for information for firefighting measures

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information

### **7. HANDLING AND STORAGE**

#### **7.1. Precautions for safe handling**

Avoid contact with skin, eyes and clothing. Avoid dust and aerosol formation. In case of dust formation, ensure suitable ventilation.

#### **7.2. Conditions for safe storage, including any incompatibilities**

Store in correctly labeled, tightly closed containers. Store in a cool, dry, well-ventilated place. Handle and store under inert gas.

**Recommended storage temperature:** +2°C - +8°C

### **8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

#### **8.1. Control parameters**

The usual precautions when handling chemicals must be observed. Wash your hands before breaks and at the end of work.

#### **8.2. Exposure controls**

##### **Appropriate engineering controls**

General industrial hygiene practice.

##### **Personal protective equipment**

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

Safety glasses with side protection. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

##### **Skin protection**

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. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

##### **Body Protection**

Use impervious clothing, the type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

##### **Respiratory protection**

If, according to the risk assessment, air-purifying respiratory protection is required, a full face mask with a multi-purpose combination filter (US) or with filter type ABEK (EN 14387) must be used in addition to the technical measures. If the respiratory protective device is the only protective measure, a self-contained breathing apparatus with a full face mask should be used.

Respiratory protective devices and components must be tested and approved according to appropriate government standards such as NIOSH (US) or CEN (EU).

**Control of environmental exposure**

Do not let product enter drains

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**9.1. Information on basic physical and chemical properties**

<b>Appearance Form:</b>	Powder, white
<b>Odour</b>	no data available
<b>Odour Threshold</b>	no data available
<b>pH</b>	no data available
<b>Melting point/freezing point</b>	no data available
<b>Initial boiling point and boiling range</b>	no data available
<b>Flammability</b>	no data available
<b>Upper/lower flammability or explosive limits</b>	no data available
<b>Flash point</b>	no data available
<b>Evaporation rate</b>	no data available
<b>Vapour pressure</b>	no data available
<b>Vapour density</b>	no data available
<b>Relative density</b>	no data available
<b>Water solubility</b>	no data available
<b>Partition coefficient: n-octanol/water</b>	no data available
<b>Auto-ignition temperature</b>	no data available
<b>Decomposition temperature</b>	no data available
<b>Viscosity</b>	no data available
<b>Explosive properties</b>	no data available
<b>Oxidizing properties</b>	no data available

**10. STABILITY AND REACTIVITY**

**10.1. Reactivity**

No data available

**10.2. Chemical stability**

Stable under recommended storage conditions

**10.3. Possibility of hazardous reactions**

No data available

**10.4. Conditions to avoid**

No data available

**10.5. Incompatible materials**

Strong oxidizing agents

**10.6. Hazardous decomposition products**

No data available

**11. TOXICOLOGICAL INFORMATION**

**11.1. Information of toxicological effects**

<b>Acute toxicity</b>	LD50 Oral - Rat – 8.900 mg/kg
<b>Skin corrosion/irritation</b>	no data available
<b>Serious eye damage/eye irritation</b>	no data available
<b>Ingestion:</b>	May be harmful if swallowed.
<b>Respiratory or skin sensitization</b>	Histidine reversion (Ames)
<b>Germ cell mutagenicity</b>	no data available
<b>Carcinogenicity</b>	

**IARC:**

No component of this product present 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

**Additional Information**

RTECS: WK4990000

To our knowledge, the chemical, physical and toxicological properties have not been extensively studied.  
Liver - Irregularities - Based on evidence in humans.

## 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. Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

### 12.6. Other adverse effects

No data available

## 13. DISPOSAL CONSIDERATIONS

### 13.1. Waste treatment methods

#### Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Dispose of remaining quantities and solutions that cannot be reused to a recognized disposal company.

These products should be dissolved in or mixed with a flammable solvent and burned in a chemical incinerator (with afterburner and exhaust scrubber).

#### Contaminated packaging

Dispose of as unused product.

## 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: no    IMDG Marine pollutant: no    IATA: no

**14.6. Special precautions for user**    No data available

**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**

German Water Hazard Class: WGK 1 slightly hazardous to water.

**15.2. Chemical Safety Assessment**

No data available

**16. OTHER INFORMATION**

**Further information**

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. PAN Biotech GmbH shall not be held liable for any damage resulting from handling or from contact with the above product. See [www.pan-biotech.com](http://www.pan-biotech.com) or reverse side of invoice or packing slip for additional terms and conditions of sale.