



**TOKU-E COMPANY**  
**MATERIAL SAFETY DATA SHEET**

EMERGENCY PHONE (USA only): +1-800-535-5053      INF.: +86-21-5206 9530

I . Substance identification  
Penicillin G sodium

II . Composition/ information on ingredients  
CAS No.: 69-57-8  
FW: C<sub>16</sub>H<sub>17</sub>N<sub>2</sub>O<sub>4</sub>S

III. Hazard identification  
Label precautionary statements  
Harmful.  
May cause sensitization by inhalation and skin contact.

In case of accident or if you feel unwell, seek medical advice immediately (show label when possible). Wear suitable protective clothing, gloves and eye/ face protection.

IV. First-aid measures  
In case of contact, immediately flush eyes or skin with copious amounts of water at least 15minutes while removing contaminated clothing and shoes. Assure adequate flushing of eyes by separating eyelids with fingers. If inhaled, remove to fresh air. If breathing is difficult, call a physician. If swallowed, wash out mouth with water (provided person is conscious). Call a physician immediately. Wash all contaminated clothing before reuse.

V . Fire extinguishing measures  
Extinguishing media: Water spray. Carbon dioxide, dry chemical powder, or appropriate foam.  
Wear self-contained breathing apparatus and protective clothing to prevent contact with eyes and skin.  
Unusual fire and explosion hazards: Emits toxic fumes under fire conditions.

VI. Accidental release measures  
Wear respirator, chemical safety goggles, rubber boots, and heavy rubber gloves. Sweep up; avoid raising dust, place in a bag and hold for waste disposal.  
Ventilate area and wash spill site after material pickup is complete.

VII. Handling and storage

Wear Government approved respirator, chemical resistant gloves, safety goggles, and all other protective clothing. Do not breathe dust. Safety shower and eye bath. Mechanical exhaust required. Avoid prolonged or repeated exposure. Use only in a chemical fume hood.

Keep tightly closed.

VIII. Physical properties

Appearance: Solid

PH: N/A

Melting point: N/A

Solubility: 0.1g/ml H<sub>2</sub>O clear, colorless

IX. Stability and reactivity

Stable. Avoid Oxidizing agents, Acids, glycerol alcohol, heavy metal salts.

Hazardous combustion or decomposition products thermal decomposition may produce carbon monoxide, carbon dioxide, nitrogen oxides, and sulfur oxides.

Hazardous polymerization will not occur.

X. Toxicological information

May cause skin irritation. May be harmful if absorbed through the skin. May cause eye irritation. May be harmful if inhaled. Material may be irritating to mucous membranes and upper respiratory tract. May be harmful if swallowed.

Sensitization: May cause allergic respiratory reaction. May cause allergic skin reaction.

Signs and symptoms of exposure: Exposure can cause: Dermatitis.

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

Toxicity data:

Oral Rat LD50: 6916 MG/KG

Intravenous Rat LD50: 3020 MG/KG

Parenteral Rat LD50: 2900 UG/KG

Oral Mouse LD50: > 4000 MG/KG

Intraperitoneal Mouse LD50: 3314MG/KG

Subcutaneous Mouse LD50: 4750 MG/KG

Intravenous Mouse LD50: 1500 MG/KG

Intramuscular Mouse LD50: 2800 MG/KG

Intracerebral Mouse LD50: 3800 UG/KG

Chronic exposure: Carcinogen. Teratogen. Reproductive hazards.

Only selected registry of toxic effects of chemical substances (RTECS) data is

presented here. See actual entry in trees for complete information.

XI. Ecological information: No data available.

XII. Disposal considerations

Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state and local environmental regulations.

XIII. Transport information

This substance is considered to be non-hazardous for transport.  
Non-hazardous for air transport.

XIV. Regulatory information

US information

Harmful.

May cause sensitization by inhalation and skin contact.

Do not breathe dust. Wear suitable protective clothing and gloves. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

SARA list: No.

EU information

Harmful.

R: 42/43

May cause sensitization by inhalation and skin contact.

S: 22 36/37 45

Do not breathe dust. Wear suitable protective clothing and gloves. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Canada information

This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.

DSL: Yes.

NDSL: No

XV. Other information

The information and recommendations set forth herein are believed to be completed and faithful. However, it is the user's responsibility to determine the suitability for his/ her purpose prior to use. Toku-E Company assumes no additional liability and responsibility resulting from use and/ or reliance on this information.