# SIGMA-ALDRICH

#### sigma-aldrich.com

## **Material Safety Data Sheet**

Version 5.0 Revision Date 03/12/2010 Print Date 07/11/2010

## 1. PRODUCT AND COMPANY IDENTIFICATION

Product name	:	Penicillin G sodium salt
Product Number Brand	:	P3032 Sigma
Company	:	Sigma-Aldrich 3050 Spruce Street SAINT LOUIS MO 63103 USA
Telephone Fax Emergency Phone #	:	+18003255832 +18003255052 (314) 776-6555

#### 2. HAZARDS IDENTIFICATION

## Emergency Overview

## **OSHA Hazards**

Skin and respiratory sensitizer

## GHS Label elements, including precautionary statements

Pictogram
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Signal word	Danger
Hazard statement(s) H317 H334	May cause an allergic skin reaction. May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Precautionary statement(s P261 P280 P342 + P311	) Avoid breathing dust/fume/gas/mist/vapours/spray. Wear protective gloves. If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.
HMIS Classification Health hazard: Chronic Health Hazard: Flammability: Physical hazards:	3 * 0 0
NFPA Rating Health hazard: Fire: Reactivity Hazard:	3 0 0
Potential Health Effects	
Inhalation Skin Eyes Ingestion	May be harmful if inhaled. May cause respiratory tract irritation. May be harmful if absorbed through skin. May cause skin irritation. May cause eye irritation. May be harmful if swallowed.

### **3. COMPOSITION/INFORMATION ON INGREDIENTS**

Synonyms	:	Benzylpenicillinsodium salt
Cynonymo	•	Bonzyipornonniloodiarii oait

Formula

: C<sub>16</sub>H<sub>17</sub>N<sub>2</sub>NaO<sub>4</sub>S

Molecular Weight : 356.37 g/mol

CAS-No.	EC-No.	Index-No.	Concentration	
Sodium [2S-(2α,5α,6 β)]-3,3-dimethyl-7-oxo-6-(phenylacetamido)-4-thia-1-azabicyclo[3.2.0]heptane-				
2-carboxylate				
69-57-8	200-710-2	-	-	

## **4. FIRST AID MEASURES**

#### **General advice**

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

#### If inhaled

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

#### In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

#### In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

## If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

### **5. FIRE-FIGHTING MEASURES**

#### Suitable extinguishing media

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

#### Special protective equipment for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

#### 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions

Use personal protective equipment. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation.

#### Environmental precautions

Do not let product enter drains.

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

Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal.

## 7. HANDLING AND STORAGE

#### Precautions for safe handling

Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

## Conditions for safe storage

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

Product contains Penicillin Keep in a dry place.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.

#### Personal protective equipment

#### **Respiratory protection**

Where risk assessment shows air-purifying respirators are appropriate use a dust mask type N95 (US) or type P1 (EN 143) respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### Hand protection

Handle with gloves.

## Eye protection

Face shield and safety glasses

#### Skin and body protection

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

#### Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Appearance

••	
Form	powder
Colour	white
Safety data	
рН	5.0 - 6.5 at 30 g/l
Melting point	no data available
Boiling point	no data available
Flash point	no data available
Ignition temperature	no data available
Lower explosion limit	no data available
Upper explosion limit	no data available
Water solubility	no data available

## **10. STABILITY AND REACTIVITY**

#### Chemical stability

Stable under recommended storage conditions.

## Conditions to avoid no data available

Materials to avoid Oxidizing agents, acids, Heavy metal salts

#### Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, nitrogen oxides (NOx), Sulphur oxides

## **11. TOXICOLOGICAL INFORMATION**

#### Acute toxicity

LD50 Oral - rat - 6,916 mg/kg Remarks: Behavioral:Tremor. Behavioral:Convulsions or effect on seizure threshold. Gastrointestinal:Other changes.

#### Skin corrosion/irritation

#### no data available

# Serious eye damage/eye irritation no data available

#### **Respiratory or skin sensitization** May cause allergic respiratory and skin reactions

#### Germ cell mutagenicity

no data available

#### Carcinogenicity

- 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.
- ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
- NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
- OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

#### **Reproductive toxicity**

no data available

Specific target organ toxicity - single exposure (GHS) no data available

Specific target organ toxicity - repeated exposure (GHS) no data available

## Aspiration hazard

no data available

## Potential health effects

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

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

## **Additional Information**

RTECS: XH9800000

#### **12. ECOLOGICAL INFORMATION**

#### Toxicity

no data available

Persistence and degradability no data available

**Bioaccumulative potential** no data available

**Mobility in soil** no data available

## PBT and vPvB assessment

no data available

## Other adverse effects

no data available

### **13. DISPOSAL CONSIDERATIONS**

#### Product

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

## Contaminated packaging

Dispose of as unused product.

## 14. TRANSPORT INFORMATION

#### DOT (US)

Not dangerous goods

#### IMDG

Not dangerous goods

#### ΙΑΤΑ

Not dangerous goods

## **15. REGULATORY INFORMATION**

#### **OSHA Hazards**

Skin and respiratory sensitizer

#### **DSL Status**

All components of this product are on the Canadian DSL list.

#### 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

No SARA Hazards

## Massachusetts Right To Know Components

No Components Listed

#### Pennsylvania Right To Know Components

Sodium [2S-(2α,5α,6 β)]-3,3-dimethyl-7-oxo-6-(phenylacetamido)-4- thia-1-azabicyclo[3.2.0]heptane-2-carboxylate	CAS-No. 69-57-8	Revision Date
New Jersey Right To Know Components Sodium [2S-(2α,5α,6 β)]-3,3-dimethyl-7-oxo-6-(phenylacetamido)-4- thia-1-azabicyclo[3.2.0]heptane-2-carboxylate	CAS-No. 69-57-8	Revision Date

#### California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

## **16. OTHER INFORMATION**

#### **Further information**

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