

## 1 Identification

**Product Name:** Carbenicillin, Disodium Salt

**Catalog Number:** C033

**Company:** Caisson Laboratories

**Address:** 836 South 100 East, Smithfield, UT 84335

**Telephone:** 435.755.7615

**Fax:** 435.755.7617

**Emergency Contact:** CHEMTREC 800.424.9300 (703.527.3887)

**Recommended Use:** For research and laboratory use only.

**Restrictions On Use:** This product is intended for research and laboratory use only. Products are not to be used as human or animal therapeutics, cosmetics, agricultural or pesticidal products, food additives, or as household chemicals.

## 2 Hazard(s) Identification

### Classification of the Substance or Mixture

**GHS Classification:** H317 - Skin sensitization (Category 1), H334 - Respiratory sensitization (Category 1)

### GHS Label elements, including precautionary statements

**Signal Word:** Danger

### Hazard Statements

H317 - May cause an allergic skin reaction.

H334 - May cause allergy or asthma symptoms or 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.

P342 + P311 - If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention.

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

### Pictograms:



## 3 Composition / Information on Ingredients

**Synonyms:**  $\alpha$ -Carboxybenzylpenicillindisodium salt

**Formula:**  $C_{17}H_{16}N_2Na_2O_6S$

**Molecular Weight (g/mol):** 422.36

**CAS Number:** 4800-94-6

**EC Number:** 225-360-8

Component	Concentration (%)	Classification
Carbenicillin, Disodium Salt	89 - 100	No exposure limits established by OSHA or ACGIH.

## 4 First-Aid Measures

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

### Route of Exposure

**If swallowed:** Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person. Rinse mouth with water. Do not induce vomiting without medical advice.

**In case of skin contact:** Immediately wash skin with soap and copious amounts of water. Seek medical attention if irritation persists.

**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. Seek medical attention if irritation persists.

**If inhaled:** If inhaled, move to fresh air, if breathing becomes difficult. If not breathing, institute cardiopulmonary resuscitation (CPR). Seek medical advice.

**Most important symptoms and effects, both acute and delayed:** See section 2 and/or section 11.

**Recommendation for immediate medical care and special treatment needed:** No data available.

## 5 Fire-Fighting Measures

**Suitable extinguishing media:** Water spray, Carbon Dioxide, dry chemical powder or appropriate foam. Use extinguishing media suitable for surrounding fire.

**Special protective equipment and precautions for fire-fighters:** Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

**Special hazards arising from the substance or mixture:** May emit toxic fumes under fire conditions.

**Additional Information:** Use water spray to cool unopened containers.

## 6 Accidental Release Measures

**Personal precautions, protective equipment, and emergency procedures:** Use personal protection recommended in Section 8. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation, especially in confined areas. Evacuate personnel to safe areas. Avoid breathing dust

**Environmental precautions:** Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

**Methods and material for containment and cleanup:** Wear suitable protective clothing. Avoid dust formation. Carefully sweep up and remove. Place material in a dry container and cover. Remove from the area. Flush spill area with water. Do not let products enter drains.

## 7 Handling and Storage

**Precautions for safe handling:** Avoid contact with skin and eyes. Avoid dust formation and aerosols. Avoid incompatible substances. Keep away from combustible materials. Keep away from heat and sources of ignition. Provide appropriate exhaust ventilation at places where dust may be formed. Wash thoroughly after use.

**Conditions for safe storage:** Keep container tightly closed in a dry and well-ventilated place.

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

**Incompatibilities:** Strong oxidizing agents.

## 8 Exposure Controls / Personal Protection

**OSHA Permissible Exposure Limits (PELs):** No data available.

**ACGIH Threshold Limit Values (TLVs):** No data available.

**Engineering controls:** Use mechanical exhaust or laboratory fumehood to avoid exposure.

### Personal Protective Equipment (PPE)

**Eye/face protection:** Wear safety glasses or goggles. Have eye-washing facilities available where eye contact can occur.

**Skin protection:** Wear protective gloves.

**Respiratory protection:** Wear appropriate respiratory equipment.

**Body protection:** Lab coat, gown, or coveralls.

## 9 Physical and Chemical Properties

**Appearance:** White to off-white powder

**pH:** 6.0 - 7.5 (1%, H<sub>2</sub>O)

**Solubility:** Soluble in Water

**Specific Gravity:** No data available

**Melting Range:** No data available

**Odor:** No data available

**Odor Threshold:** No data available

**Viscosity:** No data available

**Relative Density:** No data available

**Evaporation Rate:** No data available

**Initial Boiling Point and Boiling Range:** No data available

**Flash Point:** No data available

**Flammability (Solid, gas):** No data available

**Flammability Upper/Lower Limits:** No data available

**Partition Coefficient: n-octanol/water:** No data available

**Vapor Density:** No data available

**Vapor Pressure:** No data available

**Auto-ignition Temperature:** No data available

**Decomposition Temperature:** No data available

## 10 Stability and Reactivity

**Reactivity:** No data available.

**Chemical stability:** Stable under recommended storage and use conditions

**Possibilities of hazardous reactions:** No data available.

**Conditions to avoid:** Incompatibles, moist air.

**Incompatible materials:** Strong oxidizing agents.

**Hazardous decomposition products:** Carbon monoxide, carbon dioxide, nitrogen oxides, sulphur oxides, sodium oxides

## 11 Toxicological Information

**Toxicity:** LD<sub>50</sub> (IV-Rat)(mg/kg): 6800

LD<sub>50</sub> (IV-Mouse)(mg/kg): 4500

LD<sub>50</sub> (Oral-Rat)(mg/kg): >10000

### Carcinogenicity

**NTP:** No

**IARC:** No

**OSHA:** No

**Reproductive toxicity:** No data available.

**Symptoms associated with overexposure:** Nausea, vomiting, headaches, dizziness, gastrointestinal upset, irritation, changes in blood and bone marrow, allergic reaction.

**Specific target organ toxicity - single exposure:** No data available.

**Specific target organ toxicity - repeated exposure:** No data available.

**Target Organs:** None identified.

**Medical conditions aggravated by exposure:** If you are allergic to penicillin, do not handle this product.

**Routes of entry:** Ingestion, inhalation, skin and eye contact.

**NIOSH/RTECS:** ON9105000

## 12 Ecological Information

**Toxicity:** No data available.

**Persistence and degradability:** No data available.

**Bioaccumulative potential:** No data Available.

**Mobility in soil:** No data available.

**Results of PBT and vPvB:** No data available.

**Other adverse effects:** No data available.

## 13 Disposal Considerations

**Disposal of Product:** Dispose in accordance with all applicable federal, state and local environmental regulations.

**Disposal of Packaging:** Disposed of as unused product.

## 14 Transport Information

### DOT (US)

Proper Shipping Name: CHEMICALS, N.O.S (NON-REGULATED)

UN/NA number: N/A Class: N/A Packaging group: N/A Hazard Label: N/A

Reportable Quantity (RQ): N/A

Poison Inhalation Hazard: N/A

### IMDG

Proper Shipping Name: N/A

UN number: N/A Class: N/A Packaging group: N/A Hazard Label: N/A

### IATA

Proper Shipping Name: N/A

UN Number: N/A Class: N/A Packaging group: N/A Hazard Label: N/A

## 15 Regulatory Information

**TSCA:** Not Listed

### SARA Title III

**Section 302 (EHS) Ingredients:** No

**Section 313 Ingredients:** No

**Section 304 (EHS/CERCLA) Ingredients:** No

**Section 311/312 Hazard:** No

## 16 Other Information

### HMIS Rating

**Health hazard:** 3

**Chronic health hazard:** \*

**Flammability:** 0

**Physical hazard:** 0

### NFPA Rating

**Health hazard:** 3

**Fire hazard:** 0

**Reactivity:** 0

**Special Hazard:**



## Safety Data Sheet

**Further information:** All chemicals may pose unknown hazards and should be used with caution. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Caisson Laboratories, Inc. assumes no responsibility for the completeness or accuracy of the information contained herein.

Revision Date: 20 May, 2016