

SAFETY DATA SHEET

1. CHEMICAL IDENTIFICATION AND COMPANY INFORMATION

PRODUCT NAME: Carbenicillin, Disodium Salt

PRODUCT NUMBER: C346

COMPANY INFO: PhytoTechnology Laboratories®

PO Box 12205, Shawnee, KS 66282-2205

Phone: 1-888-749-8682 or 1-913-341-5343; Fax: 1-888-449-8682 or 1-913-341-5442

www.phytotechlab.com

EMERGENCY PHONE NUMBER: 1-800-535-5053 - US Only 1-352-323-3500 - International

RECOMMENDED USE: For Research Use Only

Products sold by PhytoTechnology Laboratories® are intended for research and laboratory use

RESTRICTIONS ON 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. HAZARDS IDENTIFICATION

Classification of the substance or mixture

GHS Classification:

H317 – Skin sensitization (Category 1)

H334 – Respiratory sensitization (Category 1)

GHS Label elements, including hazard and precautionary statements:

Pictogram:



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.

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

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

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

3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms: α -Carboxybenzylpenicillin disodium salt

CAS No: 4800-94-6

Formula: $C_{17}H_{16}N_2O_6SNa_2$ Molecular Weight: 422.41 g/mol EC No.: 225-360-8

| Ingredient | CAS Number | Percent | Hazardous |
|------------------------------|------------|---------|---|
| Carbenicillin, Disodium Salt | 4800-94-6 | >95 % | No exposure limits established by OSHA or ACGIH |

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4. FIRST AID MEASURES

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

area.

First Aid Procedures **Route of Entry Symptoms** Ingestion May cause irritation if swallowed If swallowed, wash out mouth with water. Never give anything by mouth to an unconscious person. Get medical attention. Safely remove victim to fresh air. If not breathing, institute Inhalation May cause irritation to respiratory cardiopulmonary resuscitation (CPR). If breathing is difficult, tract ensure clear airway and give oxygen. Get medical attention. **Eye Contact** Flush immediately with large amounts of water for at least 15 Direct contact may cause irritation. May cause redness, tearing, or minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. Get medical attention if irritation blurred vision. persists.

itching or inflammation.

Most Important Symptoms or Effects, Both Acute and Delayed:

See section 2 and/or section 11

Recommendation for Immediate Medical Care and Special Treatment Needed:

Irritating. May cause reddening,

No data available

Skin Contact

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Water spray, carbon dioxide, dry chemical powder, or appropriate foam. Use

extinguishing media suitable for surrounding fire.

persists.

Special Protective Equipment and

Precaution for Firefighters:

In the event of a fire, wear full protective clothing and NIOSH approved selfcontained breathing apparatus. Evacuate the area and fight fire from a safe distance.

Wash area thoroughly with soap and water. Remove and wash contaminated clothing. **Get medical attention if irritation**

Hazardous Combustion Products: May emit toxic fumes under fire conditions.

Toxic Gases Produced: Carbon monoxide, carbon dioxide, nitrogen oxides, sulfur oxides, sodium oxides

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures:

Use personal protection recommended in Section 8. Avoid dust formation. Avoid breathing dust, vapours, mist or gas. Ensure adequate ventilation, especially in confined areas. Evacuate personnel to safe areas.

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

Method of Containment and Cleanup: Wear suitable protective clothing. Avoid dust formation. Avoid breathing vapours,

mist or gas. 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 product enter

drains.

7. HANDLING AND STORAGE

Precaution for Safe Handling: Avoid contact with skin and eyes. Avoid dust formation and aerosols. Avoid

incompatible substances. Persons allergic to the penicillin family of chemicals should not handle this product. Provide adequate exhaust ventilation at places where dust is

formed. Wash thoroughly after use.

Conditions for Safe Storage: Keep in a tightly closed container and store in a cool, dry, and well-ventilated area.

Incompatibilities: Strong oxidizing agent

Recommended Storage Temperature: 2 to 6 °C

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

OSHA's Permissible Exposure Limits (PELs): No data available

Threshold Limit Values (TLVs):

No data available

Engineering Controls: Handle in accordance to general industrial hygiene and safety practice.

Personal Protective Equipment (PPE):

Eye/Face Protection: Chemical safety glasses or goggles. Have eye-washing facilities readily available where

eye contact can occur.

Skin Protection: Protective gloves

Body Protection: Lab coat

Respiratory Protection: Appropriate respirator.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: White to off-white powder

pH (0.050 g/L): 4.0 - 6.5

Solubility: Soluble in Water
Melting Range: No data available
Vapor Density: No data available
Vapor Pressure: No data available
Specific Gravity: No data available

Odor: Odorless

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

Flammability (solid, gas): No data available

Partition coefficient:

n-octanol/water):

Auto-ignition Temperature:

No data available

No data available

No data available

Flash Point (Closed Cup): No data available

Flammable Limits: Upper (%) – No data available Lower (%) – No data available

10. STABILITY AND REACTIVITY

Reactivity: No data available

Chemical Stability: Stable under normal conditions of use

Possibility of Hazard Reactions: Will not occur

Conditions to Avoid: Incompatibles, moist air Incompatibles Materials: Strong oxidizing agents

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide, nitrogen oxides, sulfur oxides, sodium oxides

11. TOXICOLOGICAL INFORMATION

Toxicity: LD_{50} (IV-Rat)(mg/Kg): 6800

LD₅₀ (IV-Mouse)(mg/Kg): 4500

LD₅₀ (Oral-Rat)(mg/Kg): >10000

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Carcinogenicity: NTP: No

IARC: No Z List: No OSHA Reg: No

Reproductive Toxicity: No data available

Symptoms Associated with

Nausea, vomiting, headaches, dizziness, gastrointestinal upset, irritation, changes in blood and

Overexposure:

bone marrow, allergic reaction

Specific Target Organ

Toxicity:

Single Exposure: No data available

Repeated Exposure: No data available

Target Organs: None identified

Medical Conditions

If you are allergic to penicillin, do not handle this product

Aggravated By Exposure:

Routes of Entry: Ingestion, inhalation, skin and eye contact

NIOSH/RTECS NO: ON9105000

The toxicological properties of this product have not been thoroughly investigated

12. ECOLOGICAL INFORMATION

Ectoxicity: No data available
Persistence and Degradability: No data available
Bioaccumulative Potential: No data available
Mobility in Soil: No data available
Other Adverse Effects: No data available

13. DISPOSAL CONSIDERATION

Disposal Procedure: Dispose in accordance with all applicable federal, state, and local environmental

regulations.

EPA Hazardous Waste Number: No data available

14. TRANSPORT INFORMATION

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

Hazard Class: N/A
UN/NA: N/A
Labels: N/A

International:

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

Hazard Class: N/A
UN/NA: N/A
Labels: N/A

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

Hazard Class: N/A
UN/NA: N/A
Labels: N/A

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15. REGULATORY INFORMATION

TSCA: No

SARA TITLE III:

Section 302 (EHS) Ingredients: No
Section 313 Ingredients: No
Section 304 (EHS/CERCLA) Ingredients: No

Section 311/312 Hazard: No SARA Hazards

Massachusetts Right to Know Components: No component listed
Pennsylvania Right to Know Components: CAS NO.: 4800-94-6

Disodium [2S- $(2\alpha,5\alpha,6\beta)$]-6-(carboxylatophenylacetamido)-3,3-dimethyl-7-oxo-4-thia-1-azabicyclo[3.2.0]heptane-2-carboxylate

New Jersey Right to Know Components: CAS NO.: 4800-94-6

Disodium [2S- $(2\alpha,5\alpha,6\beta)$]-6-(carboxylatophenylacetamido)-3,3-dimethyl-7-oxo-4-thia-1-azabicyclo[3.2.0]heptane-2-carboxylate

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

HMIS Rating:

NFPA Rating:

| Health Hazard | Chronic Health Hazard | Flammability | Physical Hazard |
|---------------|-----------------------|-------------------|-----------------|
| 3 | * | 0 | 0 |
| Health Hazard | Fire Hazard | Reactivity Hazard | Special Hazard |
| 3 | 0 | 0 | |

^{*}Chronic Hazard: Chronic (long-term) health effects may result from repeated overexposure.

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