# Safety data sheet

ChemiPURE Ampicillin Sodium Salt

| | |
|---|---|
| Product name<br>ChemiPURE Ampicillin Sodium Salt | Catalog no.<br>ASS05, ASS10, ASS25 |
| Synonyms<br>Ampicillin sodium salt; ampicillin-Na | Source SDS revision<br>- |
| CAS no.<br>69-52-3 | Format version / date<br>3 / 25 October 2026 |

## 01 PRODUCT AND COMPANY IDENTIFICATION

| | |
|---|---|
| Product identifier | ChemiPURE Ampicillin Sodium Salt |
| Product code | ASS05 (5 g); ASS10 (10 g); ASS25 (25 g) |
| CAS number | 69-52-3 |
| EC number | 200-708-1 |
| Recommended use | Laboratory antibiotic for research use in bacterial selection, microbiology and molecular biology. Not for human or veterinary administration. |
| Supplier | EcoTech Biotechnology |
| Website | www.ecotechbiotech.com |
| Address | Universite Mah. İpekyolu Cad. Ata Teknokent Sitesi B Blok No: Z10 Yakutiye Erzurum Türkiye |
| Telephone | 0090 544 327 34 97 |
| SDS contact | info@ecotechbiotech.com |
| Emergency telephone | 0090 544 327 34 97 |
| Available | Monday-Saturday/08:00-20:00/GMT+3 |
| Languages | Turkish/English |
| Outside these hours | Contact: info@ecotechbiotech.com |

## 02 HAZARDS IDENTIFICATION

| | |
|---|---|
| Classification | Resp. Sens. 1 (H334); Skin Sens. 1 (H317), Regulation (EC) No. 1272/2008 (CLP). |
| Label elements | GHS08 (health hazard); signal word: Danger. |
| Symbols / pictograms |  |
| 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 - Prevention | P261 Avoid breathing dust. P280 Wear protective gloves. P284 Wear suitable respiratory protection if ventilation is insufficient. |
| Precautionary statements - Response | P302+P352 IF ON SKIN: Wash with water. P333+P313 If rash occurs: Get medical advice. P304+P340 IF INHALED: Move to fresh air. P342+P311 If respiratory symptoms occur: Call a doctor. |
| Other hazards | Penicillin-class antibiotic; serious hypersensitivity is possible. Avoid dust exposure. |

# Composition & response

ChemiPURE Ampicillin Sodium Salt | SAFETY DATA SHEET / SECTIONS 03-05

## 03 COMPOSITION / INFORMATION ON INGREDIENTS

| | |
|---|---|
| Product name | ChemiPURE Ampicillin Sodium Salt |
| Synonyms | Ampicillin monosodium salt; ampicillin sodium; D(-)-alpha-aminobenzylpenicillin sodium salt |
| Concentration | Purity / assay: No data available |
| Formula | C16H18N3NaO4S |
| Molecular weight | 371.39 g/mol |
| Mixture statement | Ampicillin sodium salt, CAS 69-52-3, EC 200-708-1. Additional constituent information: No data available. |

## 04 FIRST AID MEASURES

### 4.1 Description of first aid measures

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| Eye contact | Rinse cautiously with water for at least 15 minutes, including under eyelids. Remove contact lenses if easy. Seek medical attention if symptoms occur. |
| Skin contact | Remove contaminated clothing. Wash affected skin thoroughly with water and soap. Seek medical advice if skin redness, rash or allergy occurs. |
| Inhalation | Move person to fresh air, maintain comfortable breathing position. Obtain immediate medical attention if breathing difficulty, wheezing or allergic symptoms occur. |
| Ingestion | Rinse mouth with water. Do not induce vomiting unless instructed by a clinician. Seek medical advice after ingestion, particularly if a penicillin allergy is known. |
| Self-protection of first aider | Avoid exposure to airborne powder while assisting. Wear protective gloves, eye protection and suitable respiratory protection. |
| Most important symptoms / effects | Allergic skin reaction; respiratory sensitization including wheezing, shortness of breath, asthma or anaphylactic reaction in susceptible individuals. |
| Notes to physicians | Treat symptomatically. Inform medical staff that the substance is a penicillin-class beta-lactam antibiotic; manage hypersensitivity promptly. |

## 05 FIREFIGHTING MEASURES

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|---|---|
| Suitable extinguishing media | Use water spray, dry powder, carbon dioxide or alcohol-resistant foam appropriate for the surrounding fire. |
| Unsuitable extinguishing media | No substance-specific unsuitable extinguishing medium identified; avoid high-pressure jets that disperse powder. |
| Special hazards arising from the substance or mixture | Heat or combustion may generate irritating or toxic fumes, including carbon oxides, nitrogen oxides and sulfur oxides. |
| Explosion data | Flash point: Not applicable to a solid. Dust explosibility data: No data available. |
| Advice for firefighters | Wear self-contained breathing apparatus and protective clothing. Prevent contaminated runoff entering drains. |

# Safe use & protection

ChemiPURE Ampicillin Sodium Salt | SAFETY DATA SHEET / SECTIONS 06-08

## 06 ACCIDENTAL RELEASE MEASURES

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|---|---|
| Personal precautions, protective equipment and emergency procedures | Keep unnecessary personnel away. Avoid raising dust or breathing airborne particles. Wear protective gloves, safety goggles and suitable particulate respiratory protection. |
| Environmental precautions | Prevent uncontrolled release to sewers and surface waters. Avoid release of antimicrobial material into the environment. |
| Methods and materials for containment and cleaning up | Carefully collect powder with methods that minimize dust (e.g., damp absorbent or HEPA-filtered vacuum suitable for chemical spills). Place in a sealed labelled waste container; clean spill area. |
| Reference to other sections | See Sections 8 and 13 for personal protection and disposal measures. |

## 07 HANDLING AND STORAGE

| | |
|---|---|
| Precautions for safe handling | Handle with adequate ventilation or local exhaust. Avoid dust formation and inhalation, ingestion and contact with skin or eyes. Wash hands after handling. Use dedicated laboratory equipment to prevent contamination. |
| Conditions for safe storage | Store at 4-8 °C in a tightly closed, dry container. Protect from moisture, heat and incompatible materials. Ship with blue ice. |
| Container labeling | Keep the original container correctly labelled, tightly closed and segregated from food and personal items. Restrict handling by sensitized individuals where practical. |

## 08 EXPOSURE CONTROLS / PERSONAL PROTECTION

### 8.1 Control parameters

No specific occupational exposure limit for ampicillin sodium salt has been established. Prevent dust inhalation and minimize occupational sensitization risk.

### 8.2 Exposure controls

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|---|---|
| Engineering measures | Use local exhaust or a suitable enclosure for weighing or other dust-generating operations. Ensure eyewash facilities are accessible. |
| Hygiene measures | Avoid eating or drinking in handling areas. Wash exposed skin and hands thoroughly. Remove contaminated clothing for laundering. |
| Eye / face protection | Wear suitable safety goggles or protective eyewear complying with EN 166. |
| Hand protection | Wear appropriate chemical-resistant laboratory gloves (e.g., nitrile) and replace if contaminated. |
| Skin and body protection | Laboratory coat, closed shoes and protective clothing as warranted by the work activity. |
| Respiratory protection | Avoid inhaling antibiotic powder. Use suitable particulate respiratory protection (e.g., EN 149 FFP2/FFP3, as appropriate to risk assessment) where exposure cannot be controlled by ventilation. |

# Material properties

ChemiPURE Ampicillin Sodium Salt | SAFETY DATA SHEET / SECTIONS 09-10

## 09 PHYSICAL AND CHEMICAL PROPERTIES

**Information on basic physical and chemical properties**

| | |
|---|---|
| Appearance | White to light yellow powder (solid) |
| Odor | No data available |
| Odor threshold | No data available |
| pH | Approximately 8.0-10.0 (1% aqueous solution; reported value) |
| Melting point / freezing point | Approximately 215 °C (reported) |
| Initial boiling point and boiling range | No data available |
| Flash point | Not applicable to a solid |
| Evaporation rate | Not applicable to a solid |
| Flammability (solid, gas) | No data available |
| Upper / lower flammability or explosive limits | No data available |
| Vapor pressure | No data available |
| Vapor density | No data available |
| Relative density | No data available |
| Solubility(ies) | Soluble in water |
| Partition coefficient: n-octanol / water | No data available |
| Auto-ignition temperature | No data available |
| Decomposition temperature | No data available |
| Viscosity | No data available |
| Explosive properties | No data available |
| Oxidizing properties | Not classified as an oxidizing substance |

## 10 STABILITY AND REACTIVITY

| | |
|---|---|
| Reactivity | No hazardous reactivity identified under recommended handling; avoid excessive heating and oxidizing agents. |
| Chemical stability | Stable under recommended cold, dry storage in closed containers. |
| Possibility of hazardous reactions | No hazardous polymerization expected under normal laboratory handling. |
| Conditions to avoid | Excess heat, moisture, dust generation and contact with incompatible substances. |
| Incompatible materials | Strong oxidizing agents. |
| Hazardous decomposition products | Carbon monoxide, carbon dioxide, nitrogen oxides and sulfur oxides during thermal decomposition or combustion. |

# Health & environment

ChemiPURE Ampicillin Sodium Salt | SAFETY DATA SHEET / SECTIONS 11-13

## 11 TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

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|---|---|
| Acute toxicity | Not classified for acute toxicity under CLP. Reported oral LD50 (rat): >5,314 mg/kg. |
| Skin corrosion / irritation | May cause mechanical irritation; skin sensitizer (H317) and may trigger allergic reactions. |
| Serious eye damage / eye irritation | Powder contact may cause eye irritation; serious eye damage classification not established. |
| Carcinogenicity | No data available for carcinogenicity classification. |
| Reproductive toxicity | No data available for reproductive toxicity classification. |
| STOT - SE | No data available for STOT single exposure classification. |
| STOT - RE | No data available for STOT repeated exposure classification. |
| Aspiration hazard | Not applicable to a solid. |

### 11.2 Potential health effects

Ingestion: May cause gastrointestinal discomfort; penicillin-allergic individuals may react.
Inhalation: May cause allergic or asthmatic respiratory symptoms (H334).
Skin: May cause allergic skin reactions (H317).
Eyes: Airborne powder may cause irritation.

### 11.3 Additional information

Antibiotic sensitization can occur after repeated exposure. Severe hypersensitivity may occur in persons with penicillin allergy.

## 12 ECOLOGICAL INFORMATION

| | |
|---|---|
| Ecotoxicity | Quantitative ecotoxicity data are limited. Avoid release of antibiotic material to drains and waterways. |
| Persistence and degradability | No reliable product-specific degradation data available. |
| Bioaccumulative potential | No data available. |
| Mobility in soil | Water-soluble; may migrate in aqueous environmental compartments. |
| Results of PBT and vPvB assessment | No product-specific PBT/vPvB assessment available. |

## 13 DISPOSAL CONSIDERATIONS

### Waste treatment methods

| | |
|---|---|
| Product | Collect unused antibiotic as laboratory chemical waste and dispose of via a licensed waste contractor in accordance with local and national rules. Do not discharge to drains. |
| Contaminated packaging | Dispose of contaminated packaging as chemical waste. Do not reuse containers with antibiotic residues. |

# Transport & reference

ChemiPURE Ampicillin Sodium Salt | SAFETY DATA SHEET / SECTIONS 14-16

## 14 TRANSPORT INFORMATION

| Mode | UN no. | UN proper shipping name | Hazard class | Packing group | Environmental hazards |
|---|---|---|---|---|---|
| ADR/RID | - | Not regulated | - | - | No |
| IMDG | - | Not regulated | - | - | No |
| IATA | - | Not regulated | - | - | No |

## 15 REGULATORY INFORMATION

| | |
|---|---|
| Safety, health and environmental regulations / legislation | Regulation (EC) No. 1907/2006 (REACH) and Regulation (EC) No. 1272/2008 (CLP). Ampicillin sodium salt: CAS 69-52-3; EC 200-708-1. Resp. Sens. 1; Skin Sens. 1. Hazard statements H334, H317. |
| Environmental hazards | Not classified as hazardous for transport. Prevent uncontrolled discharge of antibiotics to the environment. |
| Chemical safety assessment | No product-specific chemical safety assessment information available. |

## 16 OTHER INFORMATION

**Key to abbreviations and acronyms**

| | |
|---|---|
| STOT-SE | Specific Target Organ Toxicity - Single Exposure |
| STOT-RE | Specific Target Organ Toxicity - Repeated Exposure |
| PBT | Persistent Bioaccumulative and Toxic |
| vPvB | very Persistent very Bioaccumulative and toxic |
| ADR | European Agreement concerning the international carriage of Dangerous goods by Road |
| CAS | Chemical Abstracts Service |
| IARC | International Agency for Research on Cancer |
| IATA | International Air Transport Association |
| IMDG | International Maritime code for Dangerous Goods |
| REACH | Registration, Evaluation, Authorization and restriction of Chemicals |
| RID | Regulations concerning the International transport of Dangerous goods by rail |