# SIGMA-ALDRICH

## **Material Safety Data Sheet**

Version 3.1 Revision Date 11/03/2007 Print Date 11/27/2007

#### 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Ampicillin

Product Number : A9393 Brand : Sigma

Company : Sigma-Aldrich

3050 Spruce Street SAINT LOUIS MO 63103

USA

Telephone : +1 800-325-5832 Fax : +1 800-325-5052 Emergency Phone # : (314) 776-6555

#### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms : D-(-)-alpha -Aminobenzylpenicillin

Formula : C16H19N3O4S Molecular Weight : 349.41 g/mol

| CAS-No.    | EC-No.    | Index-No. | Concentration |
|------------|-----------|-----------|---------------|
| Ampicillin |           |           |               |
| 69-53-4    | 200-709-7 | -         | -             |

## 3. HAZARDS IDENTIFICATION

# Emergency Overview OSHA Hazards

Target Organ Effect Skin and respiratory sensitizer

Irritant

**Target Organs** 

Blood

**HMIS Classification** 

Health Hazard: 3

Chronic Health Hazard: \*

Flammability: 0 Physical hazards: 1

**NFPA Rating** 

Health Hazard: 3

**Fire**: 0

Reactivity Hazard: 1

**Potential Health Effects** 

Inhalation May be harmful if inhaled. Causes respiratory tract irritation.Skin May be harmful if absorbed through skin. Causes skin irritation.

**Eyes** Causes eye irritation.

**Ingestion** May be harmful if swallowed.

## 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

## Flammable properties

Flash point no data available Ignition temperature no data available

#### 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 for cleaning up

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

#### 7. HANDLING AND STORAGE

#### Handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols.

Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

#### Storage

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

Recommended storage temperature: 2 - 8 °C

hygroscopic

#### 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**

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 solid Colour white

## Safety data

pН no data available Melting point 208 °C (406 °F) **Boiling point** no data available no data available Flash point 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

#### Storage stability

Stable under recommended storage conditions.

## Conditions to avoid

Exposure to moisture.

## Materials to avoid

Oxidizing agents

#### Hazardous decomposition products

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

## 11. TOXICOLOGICAL INFORMATION

## **Acute toxicity**

LD50 Oral - mouse - > 5,000 mg/kg

#### Irritation and corrosion

no data available

#### Sensitisation

May cause allergic respiratory and skin reactions

There are reports of serious and sometimes fatal hypersensitivity (anaphylactic) reactions occurring in people receiving penicillin therapy by the parenteral route although it has also occurred via oral administration. These reactions usually occur in individuals who have a history of sensitivity to multiple allergens, asthma, hay fever or urticaria. Ingestion has resulted in nausea, vomiting, diarrhea, glossitis, stomatitis, enterocolitis, pseudomembranous coloitis. Hypersensitivity reactions: erythematous maculopapular rashes, erythema multiforme, urticaria and exfoliative dermatis.

## Chronic exposure

This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification.

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.

No component of this product present at levels greater than or equal to 0.1% is identified as OSHA:

a carcinogen or potential carcinogen by OSHA.

## Signs and Symptoms of Exposure

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

#### **Potential Health Effects**

Inhalation May be harmful if inhaled. Causes respiratory tract irritation. Skin May be harmful if absorbed through skin. Causes skin irritation.

**Eyes** Causes eve irritation.

Ingestion May be harmful if swallowed.

**Target Organs** Blood,

#### 12. ECOLOGICAL INFORMATION

#### Elimination information (persistence and degradability)

no data available

#### **Ecotoxicity effects**

no data available

#### Further information on ecology

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

#### **IATA**

Not dangerous goods

#### 15. REGULATORY INFORMATION

#### **OSHA Hazards**

Target Organ Effect, Skin and respiratory sensitizer, Irritant

#### **TSCA Status**

Not On TSCA Inventory

CAS-No. Ampicillin 69-53-4

#### **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

Acute Health Hazard, Chronic Health Hazard

## **Massachusetts Right To Know Components**

No Components Listed

## Pennsylvania Right To Know Components

Ampicillin CAS-No. Revision Date 69-53-4 1989-12-01

## **New Jersey Right To Know Components**

Ampicillin CAS-No. Revision Date 69-53-4 1989-12-01

## California Prop. 65 Components

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

#### 16. OTHER INFORMATION

#### **Further information**

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