

## Chemical Safety Data Sheet MSDS / SDS

**Zamocillin-d4**

Revision Date:2026-04-18 Revision Number:1

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****Product identifier**

Product name : Zamocillin-d4  
CBnumber : CB11872913  
CAS : 2673270-36-3  
Synonyms : Amoxicillin-D4,Zamocillin-d4

**Relevant identified uses of the substance or mixture and uses advised against**

Relevant identified uses : For R&D use only. Not for medicinal, household or other use.  
Uses advised against : none

**Company Identification**

Company : Chemicalbook  
Address : Building 1, Huihuang International, Shangdi 10th Street, Haidian District, Beijing  
Telephone : 010-86108875

**SECTION 2: Hazards identification****GHS Label elements, including precautionary statements**

Symbol(GHS)



Signal word

Danger

**Precautionary statements**

P501 Dispose of contents/container to.....  
P363 Wash contaminated clothing before reuse.  
P342+P311 IF experiencing respiratory symptoms: call a POISON CENTER or doctor/physician.  
P321 Specific treatment (see ... on this label).  
P333+P313 IF SKIN irritation or rash occurs: Get medical advice/attention.  
P304+P341 IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.  
P302+P352 IF ON SKIN: wash with plenty of soap and water.  
P284 Wear respiratory protection.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P272 Contaminated work clothing should not be allowed out of the workplace.  
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

## Hazard statements

H317 May cause an allergic skin reaction

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled

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## SECTION 3: Composition/information on ingredients

### Substance

Product name	: Zamocillin-d4
Synonyms	: Amoxicillin-D4,Zamocillin-d4
CAS	: 2673270-36-3
MF	: C16H19N3O5S
MW	: 365.4

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## SECTION 4: First aid measures

### Description of first aid measures

#### After inhalation

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

#### After skin contact

Immediately wash with water and soap and rinse thoroughly.

#### After eye contact

Rinse opened eye for several minutes under running water.

#### After swallowing

If symptoms persist consult doctor.

### Most important symptoms and effects, both acute and delayed

No further relevant information available.

### Indication of any immediate medical attention and special treatment needed

No further relevant information available.

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## SECTION 5: Firefighting measures

### Extinguishing media

#### Suitable extinguishing agents

Use fire fighting measures that suit the environment.

A solid water stream may be inefficient.

### **Special hazards arising from the substance or mixture**

No further relevant information available.

### **Advice for firefighters**

### **Protective equipment**

No special measures required.

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## **SECTION 6: Accidental release measures**

### **Personal precautions, protective equipment and emergency procedures**

Not required.

### **Environmental precautions**

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/ surface or ground water.

### **Methods and material for containment and cleaning up**

Dispose contaminated material as waste according to section 13.

### **Protective Action Criteria for Chemicals**

#### **PAC-1**

Substance is not listed.

#### **PAC-2**

Substance is not listed.

#### **PAC-3**

Substance is not listed.

### **Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

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## **SECTION 7: Handling and storage**

### **Precautions for safe handling**

Ensure good ventilation/exhaustion at the workplace.

### **Information about protection against explosions and fires**

No special measures required.

### **Conditions for safe storage, including any incompatibilities**

#### **Storage**

Store in accordance with information listed on the product insert.

#### **Requirements to be met by storerooms and receptacles**

No special requirements.

#### **Information about storage in one common storage facility**

Not required.

#### **Further information about storage conditions**

None.

#### **Specific end use(s)**

No further relevant information available.

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## **SECTION 8: Exposure controls/personal protection**

### **Control parameters**

#### **Components with limit values that require monitoring at the workplace**

Not required.

#### **Additional information**

The lists that were valid during the creation were used as basis.

### **Exposure controls**

#### **Appropriate engineering controls**

No further data; see section 7.

#### **Personal protective equipment**

#### **General protective and hygienic measures**

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

#### **Breathing equipment**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

#### **Protection of hands**

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

### **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

### **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

### **Eye protection**

Not required.

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## SECTION 9: Physical and chemical properties

### **Information on basic physicochemical properties**

#### **Physical State**

Solid

#### **Color**

White to off-white

#### **Odor**

Characteristic

#### **Structural Formula**

C<sub>16</sub>H<sub>15</sub>D<sub>4</sub>N<sub>3</sub>O<sub>5</sub>S

#### **Molecular Weight**

369.4 g/mol

#### **Storage Buffer**

#### **Odor Threshold**

Not determined.

#### **Formulation**

#### **Melting point/Melting range**

Undetermined.

#### **Boiling point/Boiling range**

Undetermined.

### **Flammability**

Product is not flammable.

### **Explosion limits**

Lower: Not determined.

Upper: Not determined.

### **Flash point**

Not applicable.

### **Decomposition temperature**

Not determined.

### **pH**

Not applicable.

### **Viscosity**

### **Kinematic**

Not applicable.

### **SOLUBILITY**

0.1 M Acetic Acid: Warmed

### **Dynamic**

Not applicable.

### **Solubility in / Miscibility with**

0.1 M Acetic Acid: Warmed

### **Water**

Not determined.

### **Partition coefficient (n-octanol/water)**

Not determined.

### **Vapor Pressure**

Not applicable.

### **Density**

Not determined.

### **Relative Density**

Not determined.

**Vapor Density**

Not applicable.

**Particle characteristics**

Not determined.

**Other information****Appearance****Form**

Solid

**Important information on protection of health and environment, and on safety.****Ignition temperature**

Not determined.

**Danger of explosion**

Product does not present an explosion hazard.

**Change in condition****Evaporation Rate**

Not applicable.

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**SECTION 10: Stability and reactivity****Reactivity**

No further relevant information available.

**Chemical stability****Thermal decomposition / conditions to be avoided**

No decomposition if used according to specifications.

**Possibility of hazardous reactions**

No dangerous reactions known.

**Conditions to avoid**

No further relevant information available.

**Incompatible materials**

strong oxidizing agents

**Hazardous decomposition products**

## SECTION 11: Toxicological information

### Information on toxicological effects

#### Acute toxicity

#### Primary irritant effect

##### on the skin

No irritant effect.

##### on the eye

No irritating effect.

#### Sensitization

##### Sensitization

possible through inhalation.

##### Sensitization

possible through skin contact.

### Additional toxicological information

#### Interactive effects

No interactive effects between components are known.

#### Carcinogenic categories

##### IARC (International Agency for Research on Cancer)

Substance is not listed.

##### NTP (National Toxicology Program)

Substance is not listed.

##### OSHA-Ca (Occupational Safety & Health Administration)

Substance is not listed.

#### Alternative sources for toxicological information

No non-standard sources for toxicological information where used.

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## SECTION 12: Ecological information

## **Toxicity**

### **Aquatic toxicity**

No further relevant information available.

### **Persistence and degradability**

No further relevant information available.

### **Bioaccumulative potential**

No further relevant information available.

### **Mobility in soil**

No further relevant information available.

## **Results of PBT and vPvB assessment**

### **PBT**

Not applicable.

### **vPvB**

Not applicable.

### **PBT:**

Not applicable.

### **vPvB:**

Not applicable.

## **Other adverse effects**

### **Remark**

Very toxic for fish

## **Additional ecological information**

### **General notes**

Water hazard class 2 (Self-assessment) hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

Also poisonous for fish and plankton in water bodies.

Very toxic for aquatic organisms

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## **SECTION 13: Disposal considerations**

## **Waste treatment methods**

### **Recommendation**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

### **Uncleaned packagings**

### **Recommendation**

Disposal must be made according to official regulations.

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## **SECTION 14: Transport information**

### **UN-Number**

DOT, IMDG, IATA UN3077

### **UN proper shipping name**

DOT, IATA Environmentally hazardous substance, solid, n.o.s.

(Amoxicillin-d4)

IMDG ENVIRONMENTALLY HAZARDOUS SUBSTANCE,

SOLID, N.O.S. (Amoxicillin-d4)

### **Transport hazard class(es)**

#### **DOT**

Class: 9 Miscellaneous dangerous substances and articles

Label: 9

#### **IMDG, IATA**

Class: 9 Miscellaneous dangerous substances and articles

Label: 9

### **Packing group**

DOT, IMDG, IATA III

### **Environmental hazards**

Marine pollutant: Symbol (fish and tree)

Special marking (IATA): Symbol (fish and tree)

### **Marine pollutant**

Symbol (fish and tree)

### **Special marking (IATA)**

Symbol (fish and tree)

### **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

Not applicable.

## Transport/Additional information

### DOT:

### Quantity limitations

On passenger aircraft/rail: No limit

On cargo aircraft only: No limit

### IMDG:

### Limited quantities (LQ)

5 kg

### Excepted quantities (EQ)

Code: E1

Maximum net quantity per inner packaging: 30 g

Maximum net quantity per outer packaging: 1000 g

### IATA:

### Remarks

When sold in quantities of less than or equal to 1 mL, or 1 g, with an Excepted Quantity Code of E1, E2, E4, or E5, this item meets the De Minimis Quantities exemption, per IATA 2.6.10. Therefore packaging does not have to be labeled as Dangerous Goods/Excepted Quantity.

### Special precautions for user

Warning: Miscellaneous dangerous substances and

### Hazard identification number (Kemler code)

90

### EMS Number

F-A, S-F

### Stowage Category

A

### Stowage Code

SW23 When transported in BK3 bulk container, see

### UN "Model Regulation"

UN 3077 ENVIRONMENTALLY HAZARDOUS  
SUBSTANCE, SOLID, N.O.S. (AMOXICILLIN-D4), 9,  
III

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## SECTION 15: Regulatory information

### Safety, health and environmental regulations/legislation specific for the substance or mixture

No further relevant information available.

#### Sara

Section 355 (extremely hazardous substances):	Substance is not listed.
Section 313 (Specific toxic chemical listings):	Substance is not listed.
TSCA (Toxic Substances Control Act):	Substance is not listed.
Hazardous Air Pollutants:	Substance is not listed.
Chemicals known to cause cancer:	Substance is not listed.
Chemicals known to cause reproductive toxicity for females:	Substance is not listed.
Chemicals known to cause reproductive toxicity for males:	Substance is not listed.
Chemicals known to cause developmental toxicity:	Substance is not listed.

#### Carcinogenic categories

EPA (Environmental Protection Agency):	Substance is not listed.
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#### TLV (Threshold Limit Value)

Substance is not listed.

#### NIOSH-Ca (National Institute for Occupational Safety and Health)

Substance is not listed.

#### Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

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## SECTION 16: Other information

### Abbreviations and acronyms

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMS: Hazardous Materials Identification System (USA)

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Sensitization - respiratory 1: Respiratory sensitisation – Category 1

Sensitization - skin 1: Skin sensitisation – Category 1

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

**Disclaimer:**

The information in this MSDS is only applicable to the specified product, unless otherwise specified, it is not applicable to the mixture of this product and other substances. This MSDS only provides information on the safety of the product for those who have received the appropriate professional training for the user of the product. Users of this MSDS must make independent judgments on the applicability of this SDS. The authors of this MSDS will not be held responsible for any harm caused by the use of this MSDS.