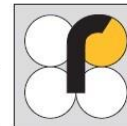


# SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006  
Version 04 Revision date: 26-06-2019  
Print date: 10-10-2019



## 1. Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

Product name                      Ampicillin standard  
Product code                      5091PEN

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses                      Laboratory use

### 1.3. Details of the supplier of the safety data sheet

Company                              R-Biopharm Nederland B.V.  
    Beijerinckweg 18  
    6827 BN Arnhem  
    Netherlands  
Telephone                            +31 (0)26-363-0364  
Fax                                      +31 (0)26-364-5111  
E-mail address                      info@r-biopharm.nl

### 1.4. Emergency telephone number

Emergency phone #                Please look for the emergency telephone number in your country  
before using this substance or mixture.

## 2. Hazards identification

### 2.1. Classification of the substance or mixture

**Classification (Regulation (EC) No 1272/2008)**

Reproductive toxicity, 1B, H360FD

For the full text of the H-Statements mentioned in this Section, see Section 16.

### 2.2. Label elements

**Labelling (Regulation (EC) No 1272/2008)**

Pictogram



GHS08

Signal word                              Danger

Hazard statement(s)

H360FD                                  May damage fertility. May damage the unborn child.

Precautionary statements

P201                                      Obtain special instructions before use.

P308 + P313                          IF exposed or concerned: Get medical advice/ attention.


Supplemental Hazard                None  
Statements

### 2.3. Other hazards

None

### 3. Composition/information on ingredients

#### 3.1. Dangerous ingredients

Chemical name	EC-No	CAS-No	Weight (%)	Classification (1272/2008/EC)	
Boric acid	233-139-2	10043-35-3	0,1 – 1	Repr. 1B H360FD	

Exact percentages are being withheld as a trade secret.

For the full text of the H-Statements mentioned in this Section, see Section 16.

For more detailed information on health effects and symptoms, see Section 11.

### 4. First aid measures

#### 4.1. Description of first aid measures

<b>General advice</b>	First aider needs to protect himself. Consult a physician. Show this safety data sheet to the doctor in attendance.
<b>Eye contact</b>	Rinse out with plenty of water. Get medical attention immediately if symptoms occur.
<b>Skin contact</b>	Wash off with plenty of water. Remove contaminated clothing. Consult a physician.
<b>Ingestion</b>	Rinse mouth with water. If conscious, give 2 glasses of water. Get immediate medical attention.
<b>Inhalation</b>	Move person into fresh air. If not breathing, give artificial respiration. Immediately call in a physician.

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

The most important known symptoms and effects are described in the labeling (see section 2.2) and/or in section 11.

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

<b>Notes to physician</b>	Treat symptomatically.
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### 5. Firefighting measures

#### 5.1. Extinguishing media

##### Suitable extinguishing media

Use water, CO<sub>2</sub>, dry chemical or foam. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

##### Extinguishing media which must not be used for safety reasons

None known based on information supplied.

#### 5.2. Special hazards arising from the substance or mixture

None known.

#### 5.3. Advise for firefighters

Wear self-contained breathing apparatus and protective suit. Prevent fire extinguishing water from contaminating surface water or the ground water system.

### 6. Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Avoid substance contact. Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. For personal protection see section 8.

## 6.2. Environmental precautions

Should not be released into the environment. Do not let product enter drains.

## 6.3. Methods and materials for containment and cleaning up

Sweep up and shovel into suitable containers for disposal. Avoid generation of dusts.

## 6.4. 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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## 7. Handling and storage

### 7.1. Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practice.

For precautions see section 2.2.

### 7.2. Conditions for safe storage, including any incompatibilities

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

Store at 2°C to 8°C (36°F to 46°F).

### 7.3. Specific end uses

No data available.

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## 8. Exposure controls/personal protection.

### 8.1. Control parameters

Chemical name	Type	Value*
Boric acid (CAS 10043-35-3)	TWA 8hr	2 mg/m <sup>3</sup>
	STEL	6 mg/m <sup>3</sup>

\*(External MSDS)

### 8.2. Exposure controls

#### Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

#### Personal protective equipment

##### Eye/face protection

Tightly fitting safety glasses

##### Skin/body protection

Protective/ impervious long sleeved clothing

##### Hand protection

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the related standard EN374.

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 substance/ the preparation/ the chemical mixture.

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

Material:

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. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has to be checked prior to the application.

Penetration time:

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

#### **Respiratory protection**

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### **Hygiene measures**

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands after working with substance. Do not inhale substance

#### **Environmental Exposure controls**

Should not be released into the environment. Do not let product enter drains.

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### **9. Physical and chemical properties**

#### **9.1. Information on basic physical and chemical properties**

Appearance	Form: powder
Color	Off-white
Odor	no data available
Odor threshold	no data available
pH	no data available
Melting point/ freezing point	no data available
Initial boiling point/ boiling range	no data available
Flash point	no data available
Evaporation rate	no data available
Flammability (solid, gas)	no data available
Flammability limits in air	no data available
Vapor pressure	no data available
Relative density	no data available
Water solubility	Fully soluble in water
Partition coefficient: n-octanol/water	no data available
Autoignition temperature	no data available
Decomposition temperature	no data available
Viscosity	no data available
Explosive properties	no data available
Oxidizing properties	no data available

#### **9.2. Other safety information**

No data available.

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### **10. Stability and reactivity**

#### **10.1. Reactivity**

No data available.

#### 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

Hazardous polymerization does not occur.

#### 10.4. Conditions to avoid

No data available.

#### 10.5. Incompatible materials

Oxidizing agents.

#### 10.6. Hazardous decomposition products

In the event of fire: See chapter 5.

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### 11. Toxicological information

#### 11.1. Information on toxicological effects

##### Acute toxicity

Chemical name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Boric acid	2,660 mg/kg (Rat)*	>2,000 mg/kg (Rat)*	2.03 mg/l (Rat)*

\*(External MSDS)

##### Skin corrosion/irritation

No data available.

##### Serious eye damage/irritation

No data available.

##### Respiratory or skin sensitization

No data available.

##### Germ cell mutagenicity

No data available.

##### Carcinogenity

Contains no ingredient listed as a carcinogen

##### Reproductive toxicity

No data available.

##### Specific target organ toxicity – single exposure

No data available.

##### Specific target organ toxicity – repeated exposure

No data available.

##### Aspiration hazard

No data available.

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### 12. Ecological information

#### 12.1. Toxicity

Chemical name	Toxicity to algae	Toxicity to fish	Toxicity to microorganisms	Toxicity to daphnia and other aquatic invertebrates
Boric acid	-	96h LC50 Oncorhynchus mykiss (rainbow trout): 50 – 100 mg/l*	-	48h EC50 Daphnia magna (water flea): 133 mg/l*

\*(External MSDS)

**12.2. Persistence and degradability**

No data available.

**12.3. Bioaccumulative potential**

Chemical name	Log Pow*
Boric acid	0.757 (25°C, 77°F)

\*(External MSDS)

**12.4. Mobility in soil**

No data available.

**12.5. Results of PBT and vPvB assessment**

No data available.

**12.6. Other adverse effects**

No data available.

**13. Disposal considerations****13.1. Waste treatment methods**

<b>Waste from residues / unused products</b>	Dispose of as hazardous waste in compliance with local and national regulations.
<b>Contaminated packaging</b>	Empty containers should be taken to an approved waste handling site for recycling or disposal.

**14. Transport information****14.1. UN/ID No**

ADR/RID: -

IMDG: -

IATA: -

**14.2. UN proper shipping name**

ADR/RID: Not dangerous goods

IMDG: Not dangerous goods

IATA: Not dangerous goods

**14.3. Transport hazard class**

ADR/RID: -

IMDG: -

IATA: -

**14.4. Packaging group**

ADR/RID: -

IMDG: -

IATA: -

**14.5. Environmental hazards**

ADR/RID: -

IMDG Marine pollutant: -

IATA: -

**14.6. Special precautions for user**

No data available.

**15. Regulatory information**

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

**15.1. Safety, health and environmental regulations/legislation specific for the substance**

No data available.

**15.2. Chemical safety assessment**

No data available.

#### **16. Other information**

##### **Full text of H-statements referred to under Sections 2 and 3**

H360FD – May damage fertility. May damage the unborn child.

**Revision note:** New format.

**This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006**

##### **Disclaimer**

**The information provided in this safety data sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.**

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