



## **MATERIAL SAFETY DATA SHEET**

According to EC Directive 91/155 EC

Date: 01/05/10

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

#### 1.1 Product Details:

Trade Name: Ampicillin Solution

Catalogue Number: BIO-87025, 10ml

#### 1.2 Company Details:

Manufacturer/ Supplier: Bioline  
16 The Edge Business Centre  
Humber Road  
London  
NW2 6EW  
Tel: +44 (0)20 8830 5300  
Fax: +44 (0)20 8452 2822

Further Information Obtainable from:

Technical Services  
Details as above

#### 1.3 Emergency Details:

24-Hour Contact in case of emergency:

Vergiftungs-Informationen-Zentrale  
Mathilden Strasse 1  
79106 Freiburg  
GERMANY  
Tel: +49 (0) 761 19240

### 2. Composition/ Information on Ingredients

#### 2.1 Chemical Characterisation:

Description: Mixture of substances listed below with non-hazardous additions.

Dangerous Components:

AMPICILLIN SODIUM SALT

CAS #	EC #	Annex I Index #	Symbols
69-52-3	200-708-1	None	Xn

R-Phrases: R36/37/38 - 42/43

Irritating to eyes respiratory system and skin. May cause sensitisation by inhalation and skin contact.

### 3. Hazards Identification

#### 3.1 Precautionary Statements:

R 36/37/38: Irritating to eyes, respiratory system and skin.

R42/43: May cause sensitisation by inhalation and skin contact.

### 4. First Aid Measures

#### 4.1 After Inhalation:

Remove to fresh air. If irritation persists consult a doctor immediately.

#### 4.2 After Swallowing:

Wash mouth out with water provided the person is conscious. Consult a doctor immediately.

#### 4.3 After Contact with Eyes:

Immediately flush eyes with copious amounts of water for several minutes. Ensure adequate flushing by separating the eyelids with fingers. Consult a doctor immediately.

#### 4.4 After Contact with Skin:

Immediately wash with soap and copious amounts of water. Remove any contaminated clothing and shoes. If irritation develops consult a doctor immediately.

### 5. Fire Fighting Measures

#### 5.1 Suitable Extinguishing Media:

Water spray, CO<sub>2</sub> or dry chemical powder. Large fires should be confronted with water spray or alcohol resistant foam.

#### 5.2 Unusual Fire Hazard:

Emits toxic fumes when on fire.

#### 5.3 Fire Fighting Protective Measures:

Wear protective clothing to prevent contact with the skin and eyes.

Wear self-contained breathing equipment to prevent inhalation of explosive or combustion gasses.

### 6. Accidental Release Measures

#### 6.1 Personal Precautions:

Wear chemical safety goggles, rubber boots, respirator and heavy rubber gloves.

#### 6.2 Environmental Precautions:

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

#### 6.3 Clean-up Measures:

Use a liquid-binding material (e.g. sand, sawdust, diatomite etc.) to absorb the spillage. Place in closed containers for disposal. Ventilate area well and wash spill site after clean-up procedures have taken place.

## 7. Handling and Storage

### 7.1 Handling:

Avoid inhalation. Avoid contact with eyes, skin and clothing. Avoid prolonged or repeated exposure.

### 7.2 Storage:

No special storage requirements for this product. Keep tightly closed.  
No special measures for fire and explosive protection required.  
Store at  $-20^{\circ}\text{C}$ .

## 8. Exposure Controls/ Personal Protection

### 8.1 Engineering Measures:

Mechanical exhaust required.

### 8.2 Personal Protection:

Respiratory Protection: Wear appropriate government approved respirator.

Hand Protection: Gloves should be worn, either rubber or chemical resistant.

Eye Protection: Wearing safety goggles is advised, as is the availability of eye-wash stations.

Skin Protection: Lab coats should be worn during handling. Safety deluge showers should be available.

Hygiene Practices: Avoid contact with skin or eyes. Do not place in mouth.

Do not eat, drink or smoke when handling this product. Upon completion of the use of this product, dispose of protective gloves safely and wash hands thoroughly with soap and water.

## 9. Physical and Chemical Properties

### 9.1 Physical Properties

Appearance: Liquid, colourless, odourless.

### 9.1 Chemical Properties

Concentration: 100mg/ml

Melting point/Melting range : Undetermined

Boiling point/Boiling range: Undetermined

Flash Point: Not Applicable

Autoflammability: Product is not self-igniting

Ignition Temperature: Undetermined

Explosive Properties: None

Relative Density: Undetermined

Solubility in Water: Fully Soluble

## 10. Stability and Reactivity

### 10.1 Stability

Product is stable under normal handling and storage conditions.

Materials to avoid: Oxidising agents.

Thermal decomposition: None if used under ordinary conditions.

### 10.2 Reactivity

Hazardous Decomposition Products: Carbon monoxide, Carbon dioxide, Nitrogen Oxides, Sulphur Oxides.

Hazardous Polymerisation: Will not occur.

## 11. Toxicological Information

### 11.1 Primary Irritant Effect:

R36/37/38: Irritating to eyes, respiratory system and skin.

R42/43: May cause sensitisation by inhalation and skin contact.

### 11.2 Sensitisation Effects:

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 colitis.

Hypersensitivity reactions: erythematous maculopapular rashes, erythema multiforme, urticaria and exfoliative dermatitis. May cause allergic reaction.

### SIGNS AND SYMPTOMS OF EXPOSURE

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

### ROUTE OF EXPOSURE

Skin Contact: Causes skin irritation.

Skin Absorption: Readily absorbed through skin. May be harmful if absorbed through the skin.

Eye Contact: Causes eye irritation.

Inhalation: May be harmful if inhaled. Material is irritating to mucous membranes and upper respiratory tract.

Ingestion: May be harmful if swallowed.

### 11.3 Further Toxicological Information

Target Organ information: Skin, Eyes and Blood.

### CHRONIC EXPOSURE - CARCINOGEN

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

## 12. Ecological Information

### 12.1 Environmental Effects

Environmental Fate/Stability: Unknown

Effects on Plants or Animals: Unknown

### 12.2 Water Hazard

Unknown.

Do not allow product to come into contact with surface or ground water, and do not allow it to reach the sewage system.

## 13. Disposal Considerations

### 13.1 Product Disposal:

This product must not be disposed of with household waste or in any other manner that may lead to it entering the sewage system. 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. Observe all environmental regulations.

### 13.2 Packaging Disposal:

Unclean packaging should be disposed of according to official regulations.

## 14. Transport Information

### 14.1 Land Transport:

Product does not belong to a hazard class of any international agreements on the transport and packaging of dangerous goods.

### 14.2 Maritime Transport:

This product is not a marine pollutant.

### 14.3 Air Transport

Product does not belong to any hazard classification.

## 15. Regulatory Information

### 15.1 Labelling According to EU Guidelines

INDICATION OF DANGER: Xn - Harmful.

R-PHRASES: 36/37/38-42/43

Irritating to eyes, respiratory system and skin. May cause sensitization by inhalation and skin contact.

S-PHRASES: 26-36/37-45

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing and gloves. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

### COUNTRY SPECIFIC INFORMATION

Germany

WGK: 2

## 16. Other Information

The information provided in this Material Safety Data Sheet (MSDS) is accurate to the best of our present knowledge. However, this shall not constitute a guarantee for any specific product features. All substances and preparations may present unknown hazards and should be used with caution. Bioline shall not be held liable for any damage resulting from the handling of or from contact with the above product. The information supplied in this MSDS shall not establish a legally valid contractual relationship.

Disclaimer: For R&D use only. Not for drug, household or other uses.