



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: Carbenicillin Solution

Catalogue Number: BIO-87026, 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-Informations-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:

ETHYL ALCOHOL

CAS #	EC #	Annex I Index #	Symbols
64-17-5	200-578-6	603-002-00-5	F

R-Phrases: R11
Highly Flammable

CARBENICILLIN DISODIUM

CAS #	EC #	Annex I Index #	Symbols
4800-94-6	225-360-8	None	Xn

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

3. Hazards Identification

3.1 Precautionary Statements:

R11: Highly Flammable
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, CO₂ 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. Combustible liquid.

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

7.2 Storage:

Keep tightly closed. Keep away from heat and open flame.
Store at -20°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.

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: Strong oxidising agents, Peroxides, Ammonia, Alkali Metals.

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:

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

11.2 Sensitisation Effects:

Respiratory: May cause allergic respiratory reaction.

Skin: May cause allergic skin reaction.

SIGNS AND SYMPTOMS OF EXPOSURE

Can cause CNS depression. Narcotic effect. Damage to the heart. Because of the similarity in structure of the penicillins and cephalosporins, those who are allergic to one class of agents may manifest cross-allergenicity when a member of the other class is encountered. 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: 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: Heart, Liver, Central Nervous System.

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:

RID/ADR

UN#: 1170

Class: 3

PG: III

Proper Shipping Name: Ethanol solution

14.2 Maritime Transport:

IMDG

UN#: 1170

Class: 3

PG: III

Proper Shipping Name: ETHANOL SOLUTIONS

Marine Pollutant: No

Severe Marine Pollutant: No

14.3 Air Transport

IATA

UN#: 1170

Class: 3

PG: III

Proper Shipping Name: Ethanol solution

Inhalation Packing Group I: No

15. Regulatory Information

15.1 Labelling According to EU Guidelines

CLASSIFICATION AND LABELING ACCORDING TO EU DIRECTIVES

INDICATION OF DANGER: Xn - Harmful. F- Flammable.

R-PHRASES: 10-42/43

Flammable. May cause sensitization by inhalation and skin contact.

S-PHRASES: 36/37

Wear suitable protective clothing and gloves.

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.