

## **SAFETY DATA SHEET**

[Required under safety and health regulations for shipping and handling]

Version: 2017

<u>Date Updated:</u> November 03, 2017

#### SECTION 1. - - - - - PRODUCT AND COMPANY IDENTIFICATION - - - - - - -

Product Name Ampicillin, trihydrate

Product Code(s) AB0064

Recommended Use For Laboratory Research Use Only

Not for Human or Animal Drug Use

**Supplier** Bio Basic Inc.

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Canada, L3R 8T4

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 For Chemical Emergency Phone#
 (416) 995 9730

#### SECTION 2. ----- HAZARDS IDENTIFICATION -----

### **Emergency Overview**

### **Target Organs**

Blood

### **WHMIS Classification**

D2A Very Toxic Material Causing Other Toxic Effects Respiratory sensitiser
D2B Toxic Material Causing Other Toxic Effects Moderate skin irritant
Moderate eye irritant

Skin sensitiser

### **GHS Classification**

Skin irritation (Category 2) Eye irritation (Category 2A)

Respiratory sensitisation (Category 1)

Skin sensitisation (Category 1)

Specific target organ toxicity - single exposure (Category 3), Respiratory system

### GHS Label elements, including precautionary statements

Pictogram



Signal word Danger

Hazard statement(s)

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.

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

H335 May cause respiratory irritation.

Precautionary statement(s)

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P280 Wear protective gloves.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing.

P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor/ physician.

**HMIS Classification** 

Health hazard: 2
Chronic Health Hazard: \*
Flammability: 0
Physical hazards: 0

### **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.

#### SECTION 3. - - - - COMPOSITION/INFORMATION ON INGREDIENTS - - - - -

Chemical Name	EC No.	CAS-No	Weight %
Ampicillin, trihydrate	200-709-7	7177-48-2	≤100

### SECTION 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 eve 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.

### SECTION 5. ----- FIRE FIGHTING MEASURES -----

### Conditions of flammability

Not flammable or combustible.

### Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

### Special protective equipment for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

### **Hazardous combustion products**

### Explosion data - sensitivity to mechanical impact

No data available

### Explosion data - sensitivity to static discharge

No data available

### SECTION 6. ----- ACCIDENTAL RELEASE MEASURES-----

### Personal precautions

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

### **Environmental precautions**

Do not let product enter drains.

### Methods and materials for containment and cleaning up

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

### SECTION 7. ----- HANDLING AND STORAGE-----

### Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.

### Conditions for safe storage

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

Recommended storage temperature: 2 - 8 °C

#### SECTION 8. - - - - EXPOSURE CONTROLS/PERSONAL PROTECTION - - - -

### Personal protective equipment

### Respiratory protection

For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### Hand protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

### Eye protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

### Skin and body protection

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

### Hygiene measures

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

### Specific engineering controls

Use mechanical exhaust or laboratory fumehood to avoid exposure.

### SECTION 9. ----- PHYSICAL AND CHEMICAL PROPERTIES -----

### **Appearance**

Form solid
Colour white

### Safety data

pH no data available

Melting point/range: 198 - 200 °C (388 - 392 °F) - dec.

point/freezing point

Boiling point no data available

Flash point no data available Ignition temperature no data available Auto-ignition no data available

temperature

Lower explosion limit no data available
Upper explosion limit no data available
Vapour pressure no data available
Density no data available

Water solubility ca.10 g/l

Partition coefficient: no data available

n-octanol/water

Relative vapour no data available

density

Odour no data available
Odour Threshold no data available
Evapouration rate no data available

### SECTION 10. ------STABILITY AND REACTIVITY -----

#### Chemical stability

Stable under recommended storage conditions.

### Possibility of hazardous reactions

no data available

### Conditions to avoid

no data available

### Materials to avoid

Oxidizing agents

#### Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, nitrogen oxides (NOx), Sulphur oxides Other decomposition products - no data available

### SECTION 11. ----- TOXICOLOGICAL INFORMATION -----

### **Acute toxicity**

### Oral LD50

LD50 Oral - rat - 10,000 mg/kg

Remarks: Behavioral:Tremor. Behavioral:Muscle weakness. Diarrhoea

### Inhalation LC50 Dermal LD50

no data available

### Other information on acute toxicity no data available

### Skin corrosion/irritation

no data available

### Serious eye damage/eye irritation

no data available

### Respiratory or skin sensitisation

no data available

May cause allergic respiratory and skin reactions

### Germ cell mutagenicity

no data available

### Carcinogenicity

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: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (Ampicillin)

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.

### Reproductive toxicity

Reproductive toxicity - mouse - Oral

Effects on Fertility: Litter size (e.g.; # fetuses per litter; measured before birth).

no data available

### **Teratogenicity**

Developmental Toxicity - rat - Oral

Effects on Embryo or Fetus: Fetotoxicity (except death, e.g., stunted fetus).

Developmental Toxicity - rat - Oral

Specific Developmental Abnormalities: Musculoskeletal system.

no data available

### Specific target organ toxicity - single exposure (Globally Harmonized System)

Inhalation - May cause respiratory irritation.

### Specific target organ toxicity - repeated exposure (Globally Harmonized System)

no data available

### **Aspiration hazard**

no data available

### Potential health effects

**Inhalation** May be harmful if inhaled. Causes respiratory tract irritation.

**Ingestion** May be harmful if swallowed.

**Skin** May be harmful if absorbed through skin. Causes skin irritation.

**Eyes** Causes eye irritation.

### Signs and Symptoms of Exposure

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

### Synergistic effects

no data available

### Additional Information

RTECS: XH8425000

### SECTION 12. ----- ECOLOGICAL INFORMATION -----

### **Toxicity**

No data available

### Persistence and degradability

No data available

### Bioaccumulative potential

No data available

### Mobility in soil

No data available

### PBT and vPvB assessment

No data available

#### Other adverse effects

No data available

#### SECTION 13. ----- DISPOSAL CONSIDERATIONS -----

#### **Product**

Offer surplus and non-recyclable solutions to a licensed disposal company. 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.

### SECTION 14. ----- TRANSPORT INFORMATION -----

### DOT (US)

Not dangerous goods

#### **IMDG**

Not dangerous goods

#### IATA

Not dangerous goods

### SECTION 15. ----- REGULATORY INFORMATION -----

### **WHMIS Classification**

D2A	Very Toxic Material Causing Other Toxic Effects	Respiratory sensitiser
D2B	Toxic Material Causing Other Toxic Effects	Moderate skin irritant
		Moderate eye irritant
		Skin canciticar

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

### SECTION 16. ----- OTHER INFORMATION-----

Further information: no limited for paper copy, just for internal uses. For research use only. Not intended for human or animal diagnostic or therapeutic uses.

### Disclaimer

The information provided on this SDS 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

#### **End of SDS**



# Bio Basic Inc.

### **CERTIFICATE OF ANALYSIS**

Product Ampicillin, trihydrate

Grade High Purity Product Code AB0064

Formula  $C_{16}H_{19}N_3O_4S\cdot 3H_2O$ 

MW 403.46 CAS# 7177-48-2

Lot No

Test Items Specifications Results

Appearance White to off-white crystalline powder

IdentityPassCrystallinePasspH (1% Solution)3.5-6.0Water Content12.0-15.0%

Dimethylaniline Pass

Assay (Anhydrous) 900-1050 μG/mg

Organic Impurities Pass

Procedure 1 (individual impurities

and total impurities)

Residual Solvents Meets Requirements

Storage: 4°C