#### **BIO BASIC INC.**

20 KONRAD CRES, MARKHAM ONTARIO L3R 8T4 CANADA TEL: (905) 474 4493, (800) 313 7224 FAX: (905) 474 5794

# MATERIAL SAFETY DATA SHEET REQUIRED UNDER SAFETY AND HEALTH REGULATION FOR SHIP REPAIRING

MANUFACTURER'S NAME: BIO BASIC INC. TEL: (905) 474 4493 FAX: (905) 474 5794 FOR CHEMICAL EMERGENCY: (416) 995 9730

ADDRESS: 20 KONRAD CRES, MARKHAM ONTARIO L3R 8T4 CANADA

DATE UPDATED: JUNE 02, 2014

SECTION 1. - - - - - CHEMICAL IDENTIFICATION - - - - - -

Product Name Penicillin/Streptomycin, Sterile

Product Code(s) BS732

**Recommended Use** For Further Manufacturing Use Only

Not for Human or Animal Drug Use

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

**GHS - Classification** 

Classification Acute Toxicity Oral 4 Toxic to Reproduction 2 Skin Sensitizer 1 Respiratory

Sensitizer 1 Skin Irritant 2 Eye Irritant 2

Signal Word Danger





Hazard Statements H315 - Causes skin irritation H319 - Causes serious eye irritation H317 - May

cause an allergic skin reaction H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled H341 - Suspected of causing genetic defects

**Precautionary Statements** P261 - Avoid breathing dust/fume/gas/mist/vapors/spray P280 - Wear protective

gloves/protective clothing/eye protection/face protection P342 + P311 - If

experiencing respiratory symptoms: Call a POISON CENTRE or doctor/physician P264 - Wash hands thoroughly after handling P270 - Do not eat, drink or smoke

When using this product P301+P312-IF SWALLOWED: Call a POISON CENTRE or doctor/physician if you feel unwell P330 - Rinse mouth

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

Chemical Name	EC No.	REACH Reg. No.	CAS-No	Weight %	Classification
4-Thia-1-azabicyclo[3.2.0]hept ane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-[(phenyl acetyl)amino]- [2-(2.alpha.,5.alpha.,6.beta.)]-, monosodium salt	EEC No. 200-710-2	Not available	69-57-8	.5-5	R43
Streptomycin sulfate	EEC No. 223-286-0	Not available	3810-74-0	.5-5	-

SECTION 4. ----- FIRST-AID MEASURES-----

Eye Contact Rinse thoroughly with plenty of water for at least 15 minutes and consult a

physician.

**Skin Contact** Wash off immediately with soap and plenty of water removing all contaminated

clothes and shoes. In the case of skin irritation or allergic reactions see a

physician.

**Inhalation** Move to fresh air. If breathing becomes difficult, give oxygen. May cause allergic

respiratory reaction.

Ingestion Clean mouth with water and afterwards drink plenty of water. Call a POISON

CENTER or doctor/physician if exposed or you feel unwell.

Notes to Physician Treat symptomatically.

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

Flammable Properties Not flammable.

Flash Point Not determined

Suitable Extinguishing Media Dry chemical, CO2, water spray or regular foam.

Hazardous Combustion Products Nitrogen oxides (NOx), Sulfur oxides, Carbon oxides.

**Explosion Data** 

Sensitivity to Mechanical ImpactNot sensitive.Sensitivity to Static DischargeNot sensitive.

**Protective Equipment and Precautions for Firefighters** As in any fire, wear self-contained breathing apparatus

pressure-demand, MSHA/NIOSH (approved or equivalent) and

full protective gear.

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

Personal Precautions Avoid contact with skin, eyes and clothing. Use personal protective equipment. Ensure

adequate ventilation.

**Methods for Containment** Prevent further leakage or spillage if safe to do so.

Methods for Cleaning Up Absorb with an inert material. Pick up and transfer to properly labeled containers. Ventilate

area and wash spill site after material pickup is complete.

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

**Handling** Handle in accordance with good industrial hygiene and safety practice. Protect from light.

**Storage** Keep container tightly closed in a dry and well-ventilated place. Protect from light.

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

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
4-Thia-1-azabicyclo[3.2.0]heptane-			
2-carboxylic acid,			
3,3-dimethyl-7-oxo-6-[(phenylacety			
l)amino]-			
[2-(2.alpha.,5.alpha.,6.beta.)]-,			
monosodium salt			
69-57-8			
Streptomycin sulfate			
3810-74-0			

Engineering Measures Showers

Eyewash stations Ventilation systems.

**Personal Protective Equipment** 

**Eye/Face Protection Skin and Body Protection**Tightly fitting safety goggles.
Wear protective gloves/clothing.

Respiratory Protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved

respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be

provided in accordance with current local regulations.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice.

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

**Appearance** Colorless

Odor
Odor Threshold
Decomposition Temperature °C
Freezing Point
Initial Boiling Point
No information available
No information available
No information available
No information available

Physical State Liquid

pHNo data availableFlash PointNot determinedAutoignition TemperatureNo data availableBoiling Point/RangeNo data availableMelting Point/RangeNo data available

Flammability Limits in Air Upper No data available Lower No data available

**Explosive Properties**No information available
Oxidizing Properties
No information available

Evaporation Rate
MMHG @ 37.8 C
Vapor Density
Specific Gravity
Solubility
No data available
No data available
No data available
No data available
No information available

Partition Coefficient No data available

(n-octanol/water)

Viscosity No information available

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

**Stability** Stable under recommended storage conditions.

Incompatible Products

None known based on information supplied.

**Conditions to Avoid**None known based on information supplied.

Hazardous Decomposition Products Carbon oxides. Nitrogen oxides (NOx). Sulfur oxides.

**Hazardous Polymerization** Hazardous polymerization does not occur.

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

## **Acute Toxicity**

**Product Information** Toxic if swallowed. Sensitizer. Irritating to eye, skin and respiratory system.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
4-Thia-1-azabicyclo[3.2.0]heptane-2 -carboxylic acid, 3,3-dimethyl-7-oxo-6-[(phenylacetyl) amino]- [2-(2.alpha.,5.alpha.,6.beta.)]-, monosodium salt	6916 mg/kg ( Rat )		
Streptomycin sulfate	430 mg/kg ( Rat )		

# **Chronic Toxicity**

Chronic Toxicity May cause harm to the unborn child. Suspected teratogen.

Target Organ Effects Ears, Kidneys.

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

## **Ecotoxicity**

The environmental impact of this product has not been fully investigated

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

Waste Disposal Method Dispose of material in accordance with all federal, state, and local regulations

Contaminated Packaging Dispose of in accordance with all federal, state and local regulations

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

IATA Not regulated

**DOT** Not regulated

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

**REACH Title VII Restrictions** No information available.

Chemical Name	Dangerous Substances	Organic Solvents	Harmful Substances Whose Names Are to be Indicated on the Label	Pollution Release and Transfer Registry (Class II):	Pollution Release and Transfer Registry (Class I):	Poison and Deleterious Substances Control Law:
4-Thia-1-azabicyclo[3.2. 0]heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-[(p henylacetyl)amino]- [2-(2.alpha.,5.alpha.,6.b eta.)]-, monosodium salt	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Streptomycin sulfate	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

Component	ISHA - Harmful Substances Prohibited for Manufacturing, Importing, Transferring, or Supplying	ISHA - Harmful Substances Requiring Permission	Toxic Chemical Classification Listing (TCCL) - Toxic Chemicals	Toxic Release Inventory (TRI) - Group I	Toxic Release Inventory (TRI) - Group II
4-Thia-1-azabicyclo[3.2.0] heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-[(phe nylacetyl)amino]- [2-(2.alpha.,5.alpha.,6.beta .)]-, monosodium salt 69-57-8 ( .5-5 )	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Streptomycin sulfate 3810-74-0 ( .5-5 )	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

# **International Inventories**

TSCA Complies EINECS/ELINCS Complies

ENCS Does not Comply
IECSC Does not Comply
KECL Does not Comply

PICCS Complies AICS Complies

## **U.S. Federal Regulations**

## **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

## SARA 311/312 Hazard Categories

Acute Health HazardYesChronic Health HazardYesFire HazardNoSudden Release of Pressure HazardNoReactive HazardNo

## **Clean Water Act**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

#### Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contain any substances regulated as hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act Amendments of 1990.

#### **CERCLA**

## **U.S. State Regulations**

## **California Proposition 65**

This product contains the following Proposition 65 chemicals:

Component	CAS-No	California Prop. 65
Streptomycin sulfate	3810-74-0	Developmental

## International Regulations

Mexico - Grade No information available.

Canada

#### **WHMIS Hazard Class**

D2A Very toxic materials D2B Toxic materials



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

**Issuing Date** 13-Aug-2009 **Revision Date** 02-June-2014

Revision Note No information available.

Recommended Restrictions No information available

## **Disclaimer**

The information provided on this MSDS 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 MSDS**