

## BIO BASIC INC.

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### MATERIAL SAFETY DATA SHEET

REQUIRED UNDER SAFETY AND HEALTH REGULATION FOR SHIP REPAIRING

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

Product name : Barium diphenylamine-4-sulfonate  
Product Number : BD1217

#### SECTION 2. ----- COMPOSITION/INFORMATION ON INGREDIENTS -----

Synonyms : 4-(Phenylamino)benzenesulfonic acidbarium salt  
Diphenylamine-4-sulfonic acidbarium salt  
Formula : C<sub>24</sub>H<sub>20</sub>Ba<sub>N</sub>2O<sub>6</sub>S<sub>2</sub>  
Molecular Weight : 633.88 g/mol  
CAS-No. EC-No. Index-No. Concentration  
Barium bis(4-anilinobenzenesulphonate)  
6211-24-1 228-278-0 056-002-00-7 –

#### SECTION 3. ----- HAZARDS IDENTIFICATION -----

Emergency Overview  
Target Organs  
Heart, Nerves., Kidney, Gastrointestinal tract, Bone marrow, Spleen., Liver  
WHMIS Classification  
Not WHMIS controlled. Not WHMIS controlled.  
HMIS Classification  
Health Hazard: 0  
Chronic Health Hazard: \*  
Flammability: 0  
Physical hazards: 0  
Potential Health Effects  
Inhalation May be harmful if inhaled. May cause respiratory tract irritation.  
Skin May be harmful if absorbed through skin. May cause skin irritation.  
Eyes May cause eye irritation.  
Ingestion May be harmful if swallowed.

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

General advice  
Consult a physician. Show this safety data sheet to the doctor in attendance.  
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 eye 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 -----**

Flammable properties

Flash point no data available

Ignition temperature no data available

Suitable extinguishing media

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

Special protective equipment for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

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

Personal precautions

Use personal protective equipment. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation.

Environmental precautions

Do not let product enter drains.

Methods for cleaning up

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

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

Handling

Avoid formation of dust and aerosols.

Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

Storage

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

Light sensitive.

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

Components with workplace control parameters

Components CAS-No. Value Control parameters

Update Basis

Barium bis(4- 6211-24-1 TWA 0.5 mg/m<sup>3</sup> 2004-04-30 Canada. Occupational

Anilinobenzenesu lphonate)

Health and Safety Code 218

TWA 0.5 mg/m<sup>3</sup> 2000-01-12 Canada. Act Respecting Occupational Health and

Safety [R.S.Q., c.2.1], Regulation respecting Occupational Health and Safety (O.C.885-2001), Division XV, Sections 130-14

TWA 0.5 mg/m<sup>3</sup> 2004-08-01 Canada. Worker's Compensation Act, Occupational Health and Safety

Regulations (BC Reg 296/97 as amended),

7.2 [B.C. Reg. 382/2004, s.1]

Personal protective equipment

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a dust mask type N95 (US) or type P1

(EN 143) respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection

For prolonged or repeated contact use protective gloves.

Eye protection

Safety glasses

Skin and body protection

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hygiene measures

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

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

Appearance

Form solid

Safety data

pH no data available

Melting point no data available

Boiling point no data available

Flash point no data available

Ignition temperature no data available

Lower explosion limit no data available

Upper explosion limit no data available

Water solubility no data available

**SECTION 10. ----- STABILITY AND REACTIVITY -----**

Storage stability

Stable under recommended storage conditions.

Materials to avoid

Strong oxidizing agents, Strong acids

Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, nitrogen oxides (NOx),

Sulphur oxides, Barium oxide

**SECTION 11. ----- TOXICOLOGICAL INFORMATION -----**

Acute toxicity

no data available

Irritation and corrosion

no data available

Sensitisation

no data available

Chronic exposure

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Signs and Symptoms of Exposure

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

Potential Health Effects

Inhalation May be harmful if inhaled. May cause respiratory tract irritation.

Skin May be harmful if absorbed through skin. May cause skin irritation.

Eyes May cause eye irritation.

Ingestion May be harmful if swallowed.

Target Organs Heart, Nerves., Kidney, Gastrointestinal tract, Bone marrow, Spleen., Liver,

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

Elimination information (persistence and degradability)

no data available

Ecotoxicity effects

no data available

Further information on ecology

no data available

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

Product  
Observe all federal, state, and local environmental regulations.  
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 -----**

DSL Status  
All components of this product are on the Canadian DSL list.  
WHMIS Classification  
Not WHMIS controlled. Not WHMIS controlled.

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

Further information  
The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. BBI shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale