

## SAFETY DATA SHEET

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifiers

Product name	Barium Diphenylamine Sulfonate
CAS number	6211-24-1
Synonyms	Barium Diphenylamine-4-Sulfonate, Benzene Sulfonic Acid, 4-Phenylamino Barium Salt, n-Phenyl Sulfanilic Acid Barium

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses	Laboratory chemicals
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#### 1.3 Details of the supplier of the safety data sheet

Company	Lab Alley, LLC 12501 Pauls Valley Road Austin, Texas 78737 U.S.A.
Telephone	512-668-9918
Fax	512-886-4008

#### 1.4 Emergency telephone

Emergency Phone #	US & Canada: 1-800-535-5053	INFOTRAC
	International 1-352-323-3500	INFOTRAC

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Acute Oral Toxicity	Category 4
Acute Inhalation Toxicity - Dusts and Mists	Category 4

#### 2.2 GHS Label elements, including precautionary statements

Pictogram



Signal Word

Warning

Hazard statements

Harmful if swallowed or if inhaled

Precautionary statements

Prevention

Wash face, hands and any exposed skin thoroughly after handling  
Do not eat, drink or smoke when using this product.  
Avoid breathing dust/fume/gas/mist/vapors/spray  
Use only outdoors or in a well-ventilated area

Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing  
Call a POISON CENTER or doctor/physician if you feel unwell

Ingestion

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell  
Rinse mouth

Disposal

Dispose of contents/container to an approved waste disposal plant

## 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

None identified

## SECTION 3: Composition/information on ingredients

### 3.1 Components

Chemical name	Common name and synonyms	CAS number	Concentration
Barium Diphenylamine Sulfonate	Barium Diphenylamine-4-Sulfonate, Benzene Sulfonic Acid, 4-Phenylamino Barium Salt, n-Phenyl Sufanilic Acid Barium	6211-24-1	>95%

## SECTION 4: First aid measures

### 4.1 Description of first-aid measures

#### General advice

If inhaled

Remove to fresh air. If breathing is difficult, give oxygen. Get medical attention.

In case of skin contact

Wash off immediately with plenty of water for at least 15 minutes. Get medical attention.

In case of eye contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.

If swallowed

Do NOT induce vomiting. Get medical attention.

### 4.2 Most important symptoms and effects, both acute and delayed

None reasonably foreseeable

### 4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician: Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

**Suitable extinguishing media** Water spray, carbon dioxide, dry chemical, alcohol-resistant foam.

**Unsuitable extinguishing media** No information available

### 5.2 Specific hazards arising from the substance or mixture

Keep product and empty container away from heat and sources of ignition.

### 5.3 Special 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.

### 5.4 Further information

**Flash Point** No information available

**Autoignition Temperature** No information available

#### Explosion limits

**Upper** No data available

**Lower** No data available

**Sensitivity to Mechanical Impact** No information available

**Sensitivity to Static Discharge** No information available

#### NFPA

Health	Flammability	Instability	Physical hazards
2	1	0	N/A

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment as required. Ensure adequate ventilation. Avoid dust formation.

### 6.2 Environmental precautions

Should not be released into the environment. See section 12 for additional Ecological information.

### 6.3 Methods and materials for containment and cleaning up

Sweep up and shovel into suitable containers for disposal. Keep in suitable, closed containers for disposal.

#### 6.4 Reference to other sections

See section 2 for full list of hazard and precaution statements.

### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

##### Precautions on safe handling

Use personal protective equipment as required. Ensure adequate ventilation. Avoid dust formation.

##### Hygiene measures

Handle in accordance with good industrial hygiene and safety practice.

#### 7.2 Conditions for safe storage, including any incompatibilities

##### Storage conditions

Keep containers tightly closed in a dry, cool and well-ventilated place. Incompatible materials.

##### Incompatibilities

Strong oxidizing agents. Strong acids.

### SECTION 8: Exposure controls/personal protection

#### 8.1 Occupational exposure limits

##### US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Component	Type	Value
Barium diphenylamine Sulfonate	(Vacated) TWA	0.5 mg/m <sup>3</sup>

##### US. ACGIH Threshold Limit Values

Component	Type	Value
Barium diphenylamine Sulfonate	TWA	0.5 mg/m <sup>3</sup>

##### US. NIOSH: Pocket Guide to Chemical Hazards

Component	Type	Value
Barium diphenylamine Sulfonate	IDLH	50 mg/m <sup>3</sup>
	TWA	0.5 mg/m <sup>3</sup>

#### 8.2 Exposure controls

##### Appropriate engineering controls

Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.

### Personal protective equipment

#### Eye/face protection

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 19 CFR 1910.133 or European Standard EN166.

#### Skin protection

Wear appropriate protective gloves and clothing to prevent skin exposure.

#### Respiratory protection

No protective equipment is needed under normal use conditions.

#### Control of environmental exposure

Do not allow to be released into the environment.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical State	Powder Solid
Appearance	Off-white
Odor	Odorless
Odor Threshold	No information available
pH	No information available
Melting Point/Range	300 °C / 572 °F
Boiling Point/Range	No information available
Evaporation Rate	Not applicable
Flammability (solid)	No information available
Flammability or explosive limit	No information available
Vapor Pressure	No information available
Vapor Density	Not applicable
Density	No information available
Solubility	No information available
Partition coefficient; n-octanol/water	No information available
Autoignition Temp	No information available
Decomposition Temp	No information available
Viscosity	Not applicable
Molecular Formula	C24 H20 Ba N2 O6 S2
Molecular Weight	633.89
VOC Content(%)	No information available
Oxidizing properties	No information available

### 9.2 Other safety information

No information available

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

None known, based on information available

### 10.2 Chemical stability

Stable under normal conditions.

### 10.3 Possibility of hazardous reactions

None under normal processing.

### 10.4 Conditions to avoid

Incompatible products. Excess heat. Avoid dust formation.

### 10.5 Incompatible materials

Strong oxidizing agents, strong acids.

### 10.6 Hazardous decomposition products

Nitrogen oxides (Nox), Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>) Sulfur oxides

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Product Information, Component Information

#### Acute toxicity

No acute toxicity information is available for this product.

#### Skin corrosion/irritation

May cause irritation

#### Serious eye damage/eye irritation

May cause irritation

#### Respiratory or skin sensitization

No information available

#### Germ cell mutagenicity

No information available

#### Carcinogenicity

Component	CAS	IARC	NTP	ACGIH	OSHA	Mexico
Barium diphenylamine sulfonate	6211-24-1	Not listed	Not listed	Not listed	Not listed	Not listed

**Specific target organ toxicity - single exposure**

None known

**Specific target organ toxicity - repeated exposure**

None known

**Reproductive toxicity**

No information available

**Chronic effects**

None known

**11.2 Additional Information**

No information available

**SECTION 12: Ecological information**

**12.1 Toxicity**

Do not empty into drains.

**12.2 Persistence and degradability**

Soluble in water. Persistence is unlikely based on information available

**12.3 Bio accumulative potential**

No information available

**12.4 Mobility in soil**

Will likely be mobile in the environment due to its water solubility.

**12.5 Results of PBT and vPvB assessment**

No information available

**12.6 Endocrine disrupting properties**

No information available

**12.7 Other adverse effects**

No information available

**SECTION 13: Disposal considerations**

**13.1 Waste Disposal Methods**

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

**SECTION 14: Transport information**

**DOT (US)**

UN-no. UN1564  
Proper Shipping Name Barium compound, n.o.s.  
Technical Name Benzenesulfonic acid, 4-(phenylamino)-, barium salt (2:1)  
Hazard Class 6.1  
Packing Group III

**IMDG**

UN-no. UN1564  
Proper Shipping Name Barium compound, n.o.s.  
Technical Name Benzenesulfonic acid, 4-(phenylamino)-, barium salt (2:1)  
Hazard Class 6.1  
Packing Group III

**IATA**

UN-no. UN1564  
Proper Shipping Name Barium compound, n.o.s.  
Technical Name Benzenesulfonic acid, 4-(phenylamino)-, barium salt (2:1)  
Hazard Class 6.1  
Packing Group III

**SECTION 15: Regulatory information**

**US federal regulations** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

**TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**  
Not applicable

**CERCLA Hazardous Substance List (40 CFR 302.4)**  
Not listed

**SARA 304 Emergency release notification**  
Not regulated

**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)**  
Not regulated.

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**  
**SARA 302 Extremely hazardous substance**  
Not listed.

**SARA 311/312 Hazardous**  
See section 2 of SDS

**SARA 313 (TRI reporting)**  
Listed - Threshold Values %: 1.0

**Other federal regulations**  
**Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**  
Not regulated



**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)**

Not regulated.

**Safe Drinking Water Act**

Not regulated

**FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace**

Not listed

**US state regulations**

**US. Massachusetts RTK - Substance List**

Not listed

**US. New Jersey Worker and Community Right-to-Know Act**

Listed

**US. Pennsylvania Worker and Community Right-to-Know Law**

Listed

**California Proposition 65**

Not listed

**SECTION 16: Other information**

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Revision 0

**SECTION 17: Disclaimer**

The information provided on this Safety Data Sheet 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.



