

# Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 11/26/2014 Revision date: 12/14/2016 Supersedes: 11/26/2014

Version: 1.1

## **SECTION 1: Identification**

#### 1.1. Identification

Product form : Substance

Substance name : Barium Diphenylamine Sulfonate
Chemical name : Barium bis(4-anilinobenzenesulfonate)

CAS No : 6211-24-1
Product code : LC11625

Formula : C24H20BaN2O6S2

Synonyms : Diphenylamine-4-sulfonic acid, barium salt

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

Use of the substance/mixture : For laboratory and manufacturing use only.

#### 1.3. Details of the supplier of the safety data sheet

LabChem Inc

Jackson's Pointe Commerce Park Building 1000, 1010 Jackson's Pointe Court

Zelienople, PA 16063 - USA T 412-826-5230 - F 724-473-0647 info@labchem.com - www.labchem.com

# 1.4. Emergency telephone number

Emergency number : CHEMTREC: 1-800-424-9300 or 011-703-527-3887

## SECTION 2: Hazard(s) identification

## 2.1. Classification of the substance or mixture

#### **GHS-US** classification

Acute toxicity (oral) Category 4 H302 Acute toxicity (inhalation:dust,mist) Category 4 H332

Full text of H statements : see section 16

### 2.2. Label elements

# **GHS-US** labeling

Hazard pictograms (GHS-US)



Signal word (GHS-US) : Warr

Hazard statements (GHS-US) : H302+H332 - Harmful if swallowed or if inhaled

Precautionary statements (GHS-US) : P261 - Avoid breathing dust

P264 - Wash exposed skin thoroughly after handling
P270 - Do not eat, drink or smoke when using this product
P271 - Use only outdoors or in a well-ventilated area

P301+P312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

P312 - Call a POISON CENTER or doctor/physician if you feel unwell

P330 - If swallowed, rinse mouth

P501 - Dispose of contents/container to comply with local, state and federal regulations

If inhaled: Remove person to fresh air and keep comfortable for breathing

## 2.3. Other hazards

Other hazards not contributing to the

classification

: None under normal conditions

## 2.4. Unknown acute toxicity (GHS US)

Not applicable

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## **SECTION 3: Composition/Information on ingredients**

#### 3.1. Substance

Substance type : Mono-constituent

Name	Product identifier	%	GHS-US classification
Barium Diphenylamine Sulfonate (Main constituent)	(CAS No) 6211-24-1	100	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation:dust,mist), H332

Full text of hazard classes and H-statements : see section 16

#### 3.2. Mixture

Not applicable

#### **SECTION 4: First aid measures**

# 4.1. Description of first aid measures

First-aid measures general

: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation

: Allow victim to breathe fresh air. Allow the victim to rest. 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.

First-aid measures after skin contact

Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.

First-aid measures after eye contact

: Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness

persist.

First-aid measures after ingestion

Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. Call a POISON

CENTER or doctor/physician if you feel unwell.

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

Symptoms/injuries after inhalation

Danger of serious damage to health by prolonged exposure through inhalation. Harmful if

inhaled.

Symptoms/injuries after ingestion

: Swallowing a small quantity of this material will result in serious health hazard.

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

Treat symptomatically.

# **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media : Do not use a heavy water stream.

## 5.2. Special hazards arising from the substance or mixture

No additional information available

## 5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any

chemical fire. Prevent fire-fighting water from entering environment.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

## **SECTION 6: Accidental release measures**

# 6.1. Personal precautions, protective equipment and emergency procedures

# 6.1.1. For non-emergency personnel

Protective equipment : Safety glasses. Gloves. Dust mask. Emergency procedures : Evacuate unnecessary personnel.

#### 6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

Emergency procedures : Ventilate area.

### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

## 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : On land, sweep or shovel into suitable containers. Minimize generation of dust. Store away

from other materials.

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Hygiene measures

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#### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

## **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or

smoking and when leaving work. Provide good ventilation in process area to prevent formation

of vapor. Use only outdoors or in a well-ventilated area. Avoid breathing dust.

: Do not eat, drink or smoke when using this product. Wash exposed skin thoroughly after

handling.

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

Storage conditions : Protect from sunlight. Keep container closed when not in use.

Incompatible products : Strong oxidizers. Strong acids.
Incompatible materials : Sources of ignition. Direct sunlight.

# **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

Barium Diphenylamine Sulfonate (6211-24-1)		
ACGIH	ACGIH TWA (mg/m³)	0.5 mg/m³ as Ba
OSHA	OSHA PEL (TWA) (mg/m³)	0.5 mg/m³ as Ba
IDLH	US IDLH (mg/m³)	50 mg/m³ as Ba
NIOSH	NIOSH REL (TWA) (mg/m³)	0.5 mg/m³ as Ba

#### 8.2. Exposure controls

Appropriate engineering controls : Emergency eye wash fountains and safety showers should be available in the immediate

vicinity of any potential exposure. Ensure adequate ventilation. Material should be handled in a

laboratory hood whenever possible.

Personal protective equipment : Safety glasses. Gloves. Dust/aerosol mask with filter type P1.



Hand protection : Wear protective gloves.

Eye protection : Chemical goggles or safety glasses.

Respiratory protection : Wear appropriate mask.

Other information : Do not eat, drink or smoke during use.

# **SECTION 9: Physical and chemical properties**

## 9.1. Information on basic physical and chemical properties

Physical state : Solid

Color : White to off-white

Odor : None.

Odor threshold : No data available pH : 5.9 1% solution Melting point : 300 °C

Freezing point No data available Boiling point : No data available Flash point No data available Relative evaporation rate (butyl acetate=1) : No data available : Non flammable. Flammability (solid, gas) Vapor pressure No data available Relative vapor density at 20 °C : No data available Relative density : No data available

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Molecular mass : 633.89 g/mol Solubility : Soluble in water. Log Pow : No data available : No data available Auto-ignition temperature Decomposition temperature : No data available Viscosity, kinematic : No data available Viscosity, dynamic : No data available : No data available **Explosion limits** Explosive properties : No data available : No data available Oxidizing properties

## 9.2. Other information

No additional information available

# **SECTION 10: Stability and reactivity**

### 10.1. Reactivity

No additional information available

## 10.2. Chemical stability

Light sensitive.

## 10.3. Possibility of hazardous reactions

Not established.

## 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

# 10.5. Incompatible materials

Strong acids. Strong oxidizers.

# 10.6. Hazardous decomposition products

Sulfur compounds. Carbon monoxide. Carbon dioxide. barium. Nitrogen oxides.

## **SECTION 11: Toxicological information**

# 11.1. Information on toxicological effects

Likely routes of exposure : Inhalation; Skin and eye contact

Acute toxicity : Oral: Harmful if swallowed. Inhalation:dust,mist: Harmful if inhaled.

Barium Diphenylamine Sulfonate (6211-24-1)	
ATE US (oral)	500.000 mg/kg body weight
ATE US (dust, mist)	1.500 mg/l/4h
Skin corrosion/irritation	: Not classified
	pH: 5.9 1% solution
Serious eye damage/irritation	: Not classified
	pH: 5.9 1% solution
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified
Potential Adverse human health effects and symptoms	: Based on available data, the classification criteria are not met. Harmful if swallowed. Harmful if inhaled.
Symptoms/injuries after inhalation	: Danger of serious damage to health by prolonged exposure through inhalation. Harmful if inhaled.

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Symptoms/injuries after ingestion

: Swallowing a small quantity of this material will result in serious health hazard.

# **SECTION 12: Ecological information**

#### 12.1. Toxicity

No additional information available

#### 12.2. Persistence and degradability

#### Barium Diphenylamine Sulfonate (6211-24-1)

Persistence and degradability Not established.

## 12.3. Bioaccumulative potential

#### Barium Diphenylamine Sulfonate (6211-24-1)

Bioaccumulative potential Not established.

#### 12.4. Mobility in soil

No additional information available

#### 12.5. Other adverse effects

Other information : Avoid release to the environment.

### **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Dispose of

contents/container to comply with local, state and federal regulations.

Ecology - waste materials : Avoid release to the environment.

# **SECTION 14: Transport information**

## **Department of Transportation (DOT)**

In accordance with DOT

Not regulated

## **SECTION 15: Regulatory information**

### 15.1. US Federal regulations

# Barium Diphenylamine Sulfonate (6211-24-1)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

SARA Section 311/312 Hazard Classes Immediate (acute) health hazard

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

This product or mixture does not contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

## 15.2. International regulations

## **CANADA**

#### **Barium Diphenylamine Sulfonate (6211-24-1)**

Listed on the Canadian DSL (Domestic Substances List)

WHMIS Classification Uncontrolled product according to WHMIS classification criteria

## **EU-Regulations**

No additional information available

## **National regulations**

#### Barium Diphenylamine Sulfonate (6211-24-1)

Listed on the Canadian IDL (Ingredient Disclosure List)

# 15.3. US State regulations

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California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

# **SECTION 16: Other information**

Revision date : 12/14/2016
Other information : None.

Full text of H-phrases: see section 16:

LOX	text of 11 philaded. dee dedition 16.		
	H302	Harmful if swallowed	
	H332	Harmful if inhaled	

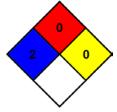
NFPA health hazard : 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt

medical attention is given.

NFPA fire hazard : 0 - Materials that will not burn.

NFPA reactivity : 0 - Normally stable, even under fire exposure conditions,

and are not reactive with water.



**HMIS III Rating** 

Health : 2 Moderate Hazard - Temporary or minor injury may occur

Flammability : 0 Minimal Hazard - Materials that will not burn

Physical : 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT

react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

Personal protection : E

E - Safety glasses, Gloves, Dust respirator

#### SDS US LabChem

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