

# SAFETY DATA SHEET

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

### 1.1 Product identifiers

Product name Barium sulfate

CAS number 7727-43-7

Synonyms Artificial barite; enamel white; permanent white.

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

Identified uses Laboratory chemicals

### 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
Specific target organ toxicty - (repeated exposure) Category 2

Target Organs - Lungs

# 2.2 GHS Label elements, including precautionary statements

Laballey.com Page 1 of 9

Pictogram



Signal Word Warning

Hazard statements Harmful if swallowed. Harmful if inhaled. May cause damage to organs

through prolonged or repeated exposure.

Precautionary statements

Prevention Wash face, hands and any exposed skin thoroughly after handling. Do

not eat, drink or smoke when using this product. Use only outdoors or in a well-ventialted area. Do not breathe dust/fume/gas/mist/vapors/spray.

Response Get medical attention/advice if you feel unwell.

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

No information available

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

### 3.1 Components

Chemical name	Common name and synonyms	CAS number	Concentration
Barium sulfate	Artificial barite; enamel white; permanent white.	7727-43-7	>99%

# **SECTION 4: First aid measures**

# 4.1 Description of first-aid measures

#### General advice

If inhaled Move to fresh air. If breathing is difficult, give oxygen. Do not use mouth-to-

mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with a respiratory medical device. Immediate medical attention is

required.

In case of skin contact Wash off immediately with plenty of water for at least 15 minutes. Get medical

attention immediatley if symptoms occur.

Laballey.com Page 2 of 9

In case of eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15

minutes. Get medical attention if symptoms occur.

**If swallowed**Do not induce vomiting. Call a physician or Poison Control Center immediately.

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

No information available.

### 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 Substance is nonflammable; use agent most

appropriate to extinguish surrounding fire.

**Unsuitable extinguishing media**No information available.

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

Non-combustible, substance itself does not burn but may decompose upon heating to produce corrosive and/or toxic fumes. Hazardous combustion products: sulfur oxides.

## 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 data available.

**Autoignition Temperature**No information available

**Explosion limits** 

UpperNo data availableLowerNo data available

Sensitivity to Mechanical Impact
Sensitivity to Static Discharge
No information available

**NFPA** 

Health	Flammability	Instability	Physical hazards
2	0	0	N/A

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

# 6.1 Personal precautions, protective equipment and emergency procedures

Laballey.com Page 3 of 9

Use personal protective equipment. Ensure adequate ventilation. Avoid dust formation. Keep people away from and upwind of spill/leak.

### 6.2 Environmental precautions

No special environment precautions required. See Section 12 for additional ecological information.

# 6.3 Methods and materials for containment and cleaning up

Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid dust formation.

#### 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 only under a chemical fume hood. Wear personal protective equipment. Avoid contact with skin and eyes. Avoid dust formation. Do not breathe dust. Do not ingest.

#### 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.

#### Incompatibilities

No information available.

# **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	
	(Vacated) TWA	10 mg/m3	
Barium sulfate	(Vacated) TWA	5 mg/m3	
Danum Sunate	TWA	15 mg/m3	
	TWA	5 mg/m3	

#### **US. ACGIH Threshold Limit Values**

Component	Type	Value	
Barium sulfate	TWA	5 mg/m3	

Laballey.com Page 4 of 9

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

Component	Type	Value	
Barium sulfate	TWA	10 mg/m3	
	TWA	5 mg/m3	

#### **Biological occupational exposure limits**

No information available.

# 8.2 Exposure controls

### Appropriate engineering controls

Use only under a chemical fume hood. Ensyre 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 29 CFR 1910.133 or European Standard EN166.

#### Skin and body protection

Wear appropriate protective gloves and clothing to prevent skin exposure.

# **Respiratory protection**

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

# Control of environmental exposure

No information available.

#### SECTION 9: Physical and chemical properties

# 9.1 Information on basic physical and chemical properties

Physical State Solid
Appearance Light yellow
Odor Odorless

Odor Threshold No information available pH No information available

Melting Point/Range 1580 °C

Boiling Point/Range No information available
Evaporation Rate No information available
Flammability (solid) No information available

Laballey.com Page 5 of 9

Flammability or explosive limit

Upper No data available Lower No data available

Vapor Pressure No information available Vapor Density No information available

Density 4.4

Solubility Insoluble in water Partition coefficient; n-octanol/water No data available

Autoignition Temp

Decomposition Temp

Viscosity

No information available

No information available

No information available

Molecular Formula BaSO4
Molecular Weight 233.4

VOC Content(%)

Oxidizing properties

No information available

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

Avoid dust formation. Excess heat.

#### 10.5 Incompatible materials

None known.

# 10.6 Hazardous decomposition products

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

Laballey.com Page 6 of 9

No information available

# Serious eye damage/eye irritation

No information available.

### Respiratory or skin sensitization

No information available.

# Germ cell mutagenicity

No information available.

Carcinogenicity

Component	CAS	IARC	NTP	ACGIH	OSHA	Mexico
Barium sulfate	7727-43-7	Not listed				

# Specific target organ toxicity - single exposure

No information available.

### Specific target organ toxicity - repeated exposure

Lungs

# Reproductive toxicity

No information available.

### **Chronic effects**

No information available.

#### 11.2 Additional Information

No information available.

# **SECTION 12: Ecological information**

### 12.1 Toxicity

Do not empty into drains.

# 12.2 Persistence and degradability

No information available

# 12.3 Bio accumulative potential

No information available

# 12.4 Mobility in soil

No information available

#### 12.5 Results of PBT and vPvB assessment

No information available

Laballey.com Page 7 of 9

# 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)

Not regulated

#### **IMDG**

Not regulated

#### IATA

Not regulated

# **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 listed.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)
SARA 302 Extremely hazardous substance

Not listed.

#### SARA 311/312 Hazardous

Listed, Acute Health Hazard, Chronic Health Hazard.

Laballey.com Page 8 of 9

# SARA 313 (TRI reporting)

Listed, Weight: 99%, 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** 

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**

Issue date: 10/06/2009 Revision 1: 09/11/2015 Revision 2: 08/02/2024

#### **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.

Laballey.com Page 9 of 9