

# SAFETY DATA SHEET

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

## 1.1 Product identifiers

Product name	Barium sulfate
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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)

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

# **2.2 GHS Label elements, including precautionary statements** None required.

# **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 sulfate	Artificial barite; enamel white; permanent white	7727-43-7	>95%

# **SECTION 4: First aid measures**

# 4.1 Description of first-aid measures

General advice	
lf inhaled	Remove from exposure, lie down. Remove to fresh air. If not breathing, give artificial respiration. 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. Clean mouth with water. Get medical attention.

- **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	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.	
	Unsuitable extinguishing media	No information available.	

- **5.2** Specific hazards arising from the substance or mixture Non-combustible. Hazardous Combustion Products: Toxic fumes. 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

No information available.			
nition Temperature No information available.		ation available.	
Upper No data available.			
Lower No data available.			
Sensitivity to Mechanical Impact			
Sensitivity to Static Discharge		No information available.	
NFPA			
Flammability	Instability	Physical hazards	
0	0	N/A	
	No data a No data a o to Mechanical Im o to Static Discharg	ture No informa No data available. No data available. Y to Mechanical Impact Y to Static Discharge	

# **SECTION 6: Accidental release measures**

6.1 **Personal precautions, protective equipment and emergency procedures** Use personal protective equipment as required. Ensure adequate ventilation.

## 6.2 Environmental precautions

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. 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

Avoid contact with skin and eyes. Do not breathe dust. Minimize dust generation and accumulation. Wash hands before breaks and immediately after handling the product.

#### Hygiene measures

Handle in accordance with good industrial hygiene and safety practice.

# 7.2 Conditions for safe storage, including any incompatibilities

#### Storage conditions

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

#### Incompatibilities

Metals.

#### **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	Туре	Value
	(Vacated) TWA	10 mg/m3
Barium sulfate	(Vacated) TWA	5 mg/m3
	TWA	15 mg/m3
	TWA	5 mg/m3

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

Component	Туре	Value
Barium sulfate	TWA	5 mg/m3

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

Component	Туре	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

None under normal use conditions.

#### 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 protection**

Wear appropriate protective gloves and clothing to prevent skin exposure.

### **Body Protection**

Wear appropriate protective gloves and clothing to prevent skin exposure.

#### **Respiratory protection**

No protective equipment is needed under normal use conditions. Recommended Filter type: Particle filter.

#### **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 powder
Appearance	White
Odor	Odorless
Odor Threshold	No information available
pH	No information available
Melting Point/Range	1580 °C / 2876 °F
Boiling Point/Range	No information available
Evaporation Rate	Not applicable
Flammability (solid)	No information available
Flammability or explosive limit	No data available
Upper Lower Vapor Pressure Vapor Density Density Solubility Partition coefficient; n-octanol/water Autoignition Temp Decomposition Temp Viscosity Molecular Formula Molecular Weight VOC Content(%) Oxidizing properties	No information available Not applicable 4.5 No information available No data available No information available Not information available BaO4S 233.4 g/mol No information available No information available

# 9.2 Other safety information

No information available.

## **SECTION 10: Stability and reactivity**

# **10.1 Reactivity** No 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. Incompatible products.
- **10.5 Incompatible materials** Metals.
- **10.6 Hazardous decomposition products** Toxic fumes, Sulfur oxides.

# **SECTION 11: Toxicological information**

# **11.1** Information on toxicological effects

#### **Product Information, Component Information**

#### Acute toxicity

Compone	ent LD	50 Oral	LD50 Dermal	LC50 Inhalation
Barium sulf	fate >20000	mg/kg (Rat)	-	-

#### 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 sulfate	7727-43-7	Not listed					
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#### Specific target organ toxicity - single exposure

None known.

# Specific target organ toxicity - repeated exposure

None known.

#### **Reproductive toxicity**

No information available.

#### **Chronic effects**

No information available.

# 11.2 Additional Information

The toxicological properties have not been fully investigated.

# **SECTION 12: Ecological information**

#### 12.1 Toxicity

Do not empty into drains.

Product		Species	Test Results	
Barium sulfate	EC50	Water Flea	32 mg/L/48h	

# 12.2 Persistence and degradability

Insoluble in water.

## 12.3 Bio accumulative potential

No information available.

#### 12.4 Mobility in soil

Is not likely mobile in the environment due its low 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)** 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 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 for more information.

SARA 313 (TRI reporting) Not regulated.

#### 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, Barium sulfate (CAS #7727-43-7).

US. New Jersey Worker and Community Right-to-Know Act Listed, Barium sulfate (CAS #7727-43-7).

US. Pennsylvania Worker and Community Right-to-Know Law Listed, Barium sulfate (CAS #7727-43-7).

#### **California Proposition 65**

Not listed.

## **SECTION 16: Other information**

Issue date: 10/06/2009 Revision 1: 09/11/2015 Revision 2: 08/02/2024 Revision 3: 02/06/2025

#### **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.