

# 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)

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

Pictogram	
Signal Word	Warning
Hazard statements Precautionary statements	Harmful if swallowed. Harmful if inhaled. May cause damage to organs through prolonged or repeated exposure.
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.

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

NFPA

No data available. Flash Point No information available Autoignition Temperature **Explosion limits** No data available Upper Lower

No data available Sensitivity to Mechanical Impact No information available Sensitivity to Static Discharge No information available

Health	Flammability	Instability	Physical hazards
2	0	0	N/A

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

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

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	Туре	Value
	(Vacated) TWA	10 mg/m3
Barium sulfate	(Vacated) TWA	5 mg/m3
Danum Sunale	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
Danum Sullate	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
рН	No information available
Melting Point/Range	1580 °C
Boiling Point/Range	No information available
Evaporation Rate	No information available
Flammability (solid)	No information available

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	No information available			
Decomposition Temp	No information available			
Viscosity	No information available			
Molecular Formula	BaSO4			
Molecular Weight	233.4			
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** 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

## 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

## 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.

## 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.