

# **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)

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.

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# 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

**If 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.

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# 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

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
1	0	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.

# 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

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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	Type	Value	
Barium sulfate	(Vacated) TWA	10 mg/m3	
	(Vacated) TWA	5 mg/m3	
	TWA	15 mg/m3	
	TWA	5 mg/m3	

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

Component	Type	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

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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

pH

No information available

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 No information available

Vapor Density Not applicable

Density 4.5

Solubility No information available

Partition coefficient: No data available

n-octanol/water

Autoignition Temp No information available Decomposition Temp No information available

Viscosity Not applicable

Molecular Formula BaO4S
Molecular Weight 233.4 g/mol

VOC Content(%) No information available
Oxidizing properties No information available

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# 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** 

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Barium sulfate	>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

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Component	CAS	IARC	NTP	ACGIH	OSHA	Mexico

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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

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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.

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## **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: 02/07/2025

## **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.

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