

SAFETY DATA SHEET

Creation Date 26-Sep-2009

Revision Date 14-Feb-2020

Revision Number 2

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Product Name

Barium sulfate

1

Cat No. :

CAS-No Synonyms 7727-43-7 Artificial barite; enamel white; permanent white

Recommended UseLaboratory chemicals.Uses advised againstFood, drug, pesticide or biocidal product use.Details of the supplier of the safety data sheet

13989

<u>Company</u>

Alfa Aesar Thermo Fisher Scientific Chemicals, Inc. 30 Bond Street Ward Hill, MA 01835-8099 Tel: 800-343-0660 Fax: 800-322-4757 **Email:** tech@alfa.com www.alfa.com

Emergency Telephone Number

During normal business hours (Monday-Friday, 8am-7pm EST), call (800) 343-0660. After normal business hours, call Carechem 24 at (866) 928-0789.

2. Hazard(s) identification

Classification

Classification under 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Based on available data, the classification criteria are not met

Label Elements
None required

Hazards not otherwise classified (HNOC)

None identified

3.	Composition/Information or	Ingredients

Component	CAS-No	Weight %
Barium sulfate	7727-43-7	>95

4. First-aid measures		
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.	
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Get medical attention.	
Inhalation	Remove from exposure, lie down. Remove to fresh air. If not breathing, give artificial respiration. Get medical attention.	
Ingestion	Do NOT induce vomiting. Clean mouth with water. Get medical attention.	
Most important symptoms and effects	No information available.	
Notes to Physician	Treat symptomatically	
5. Fire-fighting measures		

Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable Extinguishing Media	No information available
Flash Point	No information available
Method -	No information available
Autoignition Temperature	Not applicable
Explosion Limits	
Upper	No data available
Lower	No data available
Sensitivity to Mechanical Impac	t No information available
Sensitivity to Static Discharge	No information available

Specific Hazards Arising from the Chemical Non-combustible.

Hazardous Combustion Products

Toxic fumes. Sulfur oxides.

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.

NFPA

Health 1	Flammability 0	Instability 0	Physical hazards N/A	
6. Accidental release measures				
Personal Precautions Environmental Precautions	Use personal protective equipment as required. Ensure adequate ventilation. See Section 12 for additional Ecological Information.			

Methods for Containment and Clean Sweep up and shovel into suitable containers for disposal. Avoid dust formation. Up

7. Handling and storage

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.

Storage

Keep in a dry, cool and well-ventilated place. Refer product specification and/or product label for specific storage temperature requirement. Keep container tightly closed.

8. Exposure controls / personal protection

Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH	Mexico OEL (TWA)
Barium sulfate	TWA: 5 mg/m ³	(Vacated) TWA: 10 mg/m ³	TWA: 10 mg/m ³	TWA: 10 mg/m ³
	_	(Vacated) TWA: 5 mg/m ³	TWA: 5 mg/m ³	_
		TWA: 15 mg/m ³	_	
		TWA: 5 mg/m ³		

<u>Legend</u>

ACGIH - American Conference of Governmental Industrial Hygienists OSHA - Occupational Safety and Health Administration NIOSH IDLH: NIOSH - National Institute for Occupational Safety and Health

Engineering Measures

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 and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure.
Respiratory Protection	No protective equipment is needed under normal use conditions.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Powder Solid

	9. Physical
Physical State	
Appearance	
Odor	
Odor Threshold	
рН	
Melting Point/Range	
Boiling Point/Range	
Flash Point	
Evaporation Rate	
Flammability (solid,gas)	
Flammability or explosive limits	
Upper	
Lower	
Vapor Pressure	
Vapor Density	
Specific Gravity	
Solubility	
Partition coefficient; n-octanol/w	ater
Autoignition Temperature	
Decomposition Temperature	
Viscosity	
Molecular Formula	
Molecular Weight	

White Odorless No information available No information available 1580 °C / 2876 °F No information available No information available No information available No data available No data available No data available No information available No information available Not applicable 4.500

4.500 No information available No data available Not applicable No information available Not applicable Ba O4 S 233.4

	10. Stability and reactivity	
Reactive Hazard	None known, based on information available	
Stability	Stable under normal conditions.	
Conditions to Avoid	Avoid dust formation. Incompatible products.	
Incompatible Materials	Metals	
Hazardous Decomposition Products Toxic fumes, Sulfur oxides		
Hazardous Polymerization	Hazardous polymerization does not occur.	
Hazardous Reactions	None under normal processing.	

11. Toxicological information

Acute Toxicity

Product Information

Component Information					
Component	LD50 Oral	LD50 Dermal	LC50 Inhalation		
Barium sulfate	>20000 mg/kg (Rat)	Not listed	Not listed		
Toxicologically Synergistic	No information available				
Products					
Delayed and immediate effects as well as chronic effects from short and long-term exposure					
Irritation	May cause irritation				

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Sensitization No information available

Carcinogenicity

IARC NTP Component CAS-No ACGIH OSHA Mexico Barium sulfate 7727-43-7 Not listed Not listed Not listed Not listed Not listed **Mutagenic Effects** No information available **Reproductive Effects** No information available. **Developmental Effects** No information available. Teratogenicity No information available. STOT - single exposure None known STOT - repeated exposure None known Aspiration hazard No information available Symptoms / effects, both acute and No information available delayed No information available **Endocrine Disruptor Information Other Adverse Effects** The toxicological properties have not been fully investigated. 12. Ecological information

Ecotoxicity

Do not empty into drains. .

Mobility

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea	
Barium sulfate	Not listed	Not listed	Not listed	EC50: 32 mg/L/48h	
Persistence and Degradability Insoluble		vater			

Bioaccumulation/ Accumulation No information available.

Is not likely mobile in the environment due its low water solubility.

 13. Disposal considerations

 Waste Disposal Methods
 Chemical waste generators must determine whether a discarded chemical is classified as a

hazardous 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.

14. Transport information			
DOT TDG IATA	Not regulated		
TDG	Not regulated		
IATA	Not regulated		
IMDG/IMO	Not regulated		
	15. Regulatory information		

United States of America Inventory

	Component	CAS-No	TSCA	TSCA Inventory notification - Active/Inactive	TSCA - EPA Regulatory Flags
[Barium sulfate	7727-43-7	Х	ACTIVE	-

Legend:

TSCA - Toxic Substances Control Act, (40 CFR Part 710) X - Listed '-' - Not Listed

TSCA 12(b) - Notices of Export Not applicable

International Inventories

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Australia (AICS), China (IECSC), Korea (ECL).

Component	CAS-No	DSL	NDSL	EINECS	PICCS	ENCS	AICS	IECSC	KECL
Barium sulfate	7727-43-7	Х	-	231-784-4	Х	Х	Х	Х	KE-02092

U.S. Federal Regulations

SARA 313	Not applicable						
Component		CAS-No	Weight %	SARA 313 - Threshold Values %			
Barium sulfate		7727-43-7	>95	1.0			
SARA 311/312 Hazard Categories	See section 2 for more information						
CWA (Clean Water Act)	Not applicable						
Clean Air Act	Not applicable						
OSHA - Occupational Safety and Health Administration	Not applicable						
CERCLA	Not applicable						
California Proposition 65	This product does not contain any Proposition 65 chemicals.						

U.S. State Right-to-Know

Regulations					
Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Barium sulfate	Х	Х	Х	-	-

U.S. Department of Transportation

Reportable Quantity (RQ): DOT Marine Pollutant DOT Severe Marine Pollutant	N N N
U.S. Department of Homeland Security	This product does not contain any DHS chemicals.
Other International Regulations	
Mexico - Grade	No information available
	16. Other information
Prepared By	Health, Safety and Environmental Department Email: tech@alfa.com

www.alfa.com

Creation Date	26-Sep-2009
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Revision Summary	SDS authoring systems update, replaces ChemGes SDS No. 7727-43-7/3.

Disclaimer

The information provided in 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text

End of SDS