

SAFETY DATA SHEET

Creation Date 06-October-2009 Revision Date 18-January-2018 **Revision Number** 4 1. Identification

Product Name Barium Sulfate (USP) B75-12; B75-212; B75-212LC; B75-250LB; B75-500 Cat No. : Synonyms Artificial barite; enamel white; permanent white Laboratory chemicals. **Recommended Use** Uses advised against Not for food, drug, pesticide or biocidal product use Details of the supplier of the safety data sheet Company Manufacturer Importer/Distributor Fisher Scientific **Fisher Scientific** 112 Colonnade Road, One Reagent Lane Ottawa, ON K2E 7L6, Fair Lawn, NJ 07410 Tel: (201) 796-7100

Canada Tel: 1-800-234-7437

Emergency Telephone Number

CHEMTREC®, Inside the USA: 800-424-9300 CHEMTREC®, Outside the USA: 001-703-527-3887

2. Hazard(s) identification

Classification

WHMIS 2015 Classification

Classified as hazardous under the Hazardous Products Regulations (SOR/2015-17)

Acute oral toxicity
Acute Inhalation Toxicity
Specific target organ toxicity - (repeated exposure)
Target Organs - Lungs.

Category 4 Category 4 Category 2

Label Elements

Signal Word Warning

Hazard Statements Harmful if swallowed or if inhaled May cause damage to organs through prolonged or repeated exposure



Precautionary Statements

Prevention

Do not breathe dust/fumes/gas/mist/vapours/spray 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-ventilated area **Response**

IF INHALED: Remove person to fresh air and keep comfortable for breathing Call a POISON CENTER/ doctor if you feel unwell Rinse mouth **Disposal** Dispose of contents/container to an approved waste disposal plant

3. Composition/Information on Ingredients

Component		CAS-No	Weight %					
Barium sulfate		7727-43-7	> 99					
	4.	First-aid measures						
Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. medical attention if symptoms occur.								
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately if symptoms occur.							
Inhalation	substance; g valve or othe	n air. Do not use mouth-to-mouth metho ive artificial respiration with the aid of a r proper respiratory medical device. Imr I, give artificial respiration.	pocket mask equipped with a one-way					
Ingestion	ngestion Do not induce vomiting. Call a physician or Poison Control Center immediately.							
Most important symptoms/effects Notes to Physician								
5. Fire-fighting measures								
Suitable Extinguishing Media	Substance is	nonflammable; use agent most approp	riate to extinguish surrounding fire.					
Unsuitable Extinguishing Media	No information	No information available						
Flash Point Method -	No information available No information available							
Autoignition Temperature Explosion Limits Upper Lower	No informatio No data avai No data avai	lable						

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

Specific Hazards Arising from the Chemical

Non-combustible, substance itself does not burn but may decompose upon heating to produce corrosive and/or toxic fumes.

Hazardous Combustion Products

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 2	Flammability 0	Instability 0	Physical hazards N/A				
	6. Accidental re	lease measures					
Personal Precautions	Use personal protective e Keep people away from a	quipment. Ensure adequate ven nd upwind of spill/leak.	tilation. Avoid dust formation.				
Environmental Precautions	No special environmental precautions required. See Section 12 for additional ecological information.						
Methods for Containment and Clea	an Sweep up or vacuum up s formation.	pillage and collect in suitable co	ontainer for disposal. Avoid dust				
	7. Handling	and storage					
Handling	Use only under a chemica	I fume hood. Wear personal pro	tective equipment. Avoid contact				

ng	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.

Storage

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

8. Exposure controls / personal protection

Exposure Guidelines

Component	Alberta	British Columbia	Ontario TWAEV	Quebec	ACGIH TLV	OSHA PEL	NIOSH IDLH
Barium sulfate	TWA: 10 mg/m ³	TWA: 10 mg/m ³ TWA: 3 mg/m ³	TWA: 10 mg/m ³	TWA: 10 mg/m ³ TWA: 5 mg/m ³	TWA: 5 mg/m³	(Vacated) TWA: 10 mg/m ³ (Vacated) TWA: 5 mg/m ³ TWA: 15 mg/m ³ TWA: 5 mg/m ³	TWA: 5 mg/m ³

Legend

ACGIH - American Conference of Governmental Industrial Hygienists

OSHA - Occupational Safety and Health Administration

NIOSH IDLH: The National Institute for Occupational Safety and Health Immediately Dangerous to Life or Health

Engineering Measures

None under normal use conditions.

Personal protective equipment

Eye 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.
Hand Protection	Wear appropriate protective gloves and clothing to prevent skin exposure.

Glove material	Breakthrough time	Glove thickness	Glove comments
Nitrile rubber	See manufacturers	-	Splash protection only
	recommendations		

Inspect gloves before use. observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. (Refer to manufacturer/supplier for information) gloves are suitable for the task: Chemical compatability, Dexterity, Operational conditions, User susceptibility, e.g. sensitisation effects, also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion. gloves with care avoiding skin contamination.

Respiratory Protection

No protective equipment is needed under normal use conditions.

Recommended Filter type: Particle filter

Environmental exposure controls

No information available.

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing before re-use. Wash hands before breaks and at the end of workday.

9. Physical a	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							
Flash Point	No information available							
Evaporation Rate	Not applicable							
Flammability (solid,gas)	No information available							
Flammability or explosive limits								
Upper	No data available							
Lower	No data available							
Vapor Pressure	No information available							
Vapor Density	Not applicable							
Specific Gravity	4.4 (H2O=1)							
Solubility	Insoluble in water							
Partition coefficient; n-octanol/water	No data available							
Autoignition Temperature	No information available							
Decomposition Temperature	No information available							
Viscosity	Not applicable							
Molecular Formula	BaSO4							
Molecular Weight	233.4							
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10. Stability and reactivity

Reactive Hazard	None known, based on information available			
Stability	Stable under normal conditions.			
Conditions to Avoid	Avoid dust formation. Excess heat.			
Incompatible Materials	None known			
Hazardous Decomposition Product	s Sulfur oxides			

lazardous Polymer	ization	Hazardous polyme	rization does not	occur.					
lazardous Reaction	IS	None under normal processing.							
		11 Toxico	logical info	ormation					
Acute Toxicity			iogroat int						
Product Information Component Informa		No acute toxicity in	formation is availa	able for this produc	t				
Componen	t	LD50 Oral		LD50 Dermal		Inhalation			
Barium sulfa	te L	D50 = 307000 mg/kg(Rat)	Not listed	No	ot listed			
Toxicologically Syne Products	ergistic	No information ava	ilable						
Delayed and immed	iate effects as	well as chronic effec	cts from short ar	d long-term expo	sure				
rritation		No information ava	ilable						
Sensitization		No information ava	ilable						
Carcinogenicity		The table below inc	dicates whether ea	ach agency has list	ted any ingredient	as a carcinogen.			
Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico			
Barium sulfate	7727-43-7	Not listed	Not listed	Not listed	Not listed	Not listed			
Autagenic Effects Reproductive Effect	S	No information available.							
Developmental Effe	cts	No information available.							
Feratogenicity		No information available.							
STOT - single expos STOT - repeated exp		None known Lungs							
Aspiration hazard		No information available							
Symptoms / effects lelayed	both acute and	d No information available							
Endocrine Disrupto	r Information	No information available							
Other Adverse Effect	ets	The toxicological properties have not been fully investigated.							
		12. Ecolo	ogical infor	mation					
Ecotoxicity									
Persistence and De	gradability	No information available							
Bioaccumulation/ A	ccumulation	No information available.							
Aobility		No information ava	ilable.						
		13. Dispo	sal conside	erations					
Waste Disposal Met	hods	Chemical waste ge hazardous waste.							

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

International Inventories

Component	DSL	NDSL	TSCA	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
Barium sulfate	Х	-	Х	231-784-4	444-260-		Х	Х	Х	Х	Х
					7						

Canada

SDS in compliance with provisions of information as set out in Canadian Standard - Part 4, Schedule 1 and 2 of the Hazardous Products Regulations (HPR) and meets the requirements of the HPR (Paragraph 13(1)(a) of the Hazardous Products Act (HPA)).

16. Other information	
Prepared By	Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com
Creation Date Revision Date Print Date Revision Summary	06-October-2009 18-January-2018 18-January-2018 This document has been updated to comply with the requirements of WHMIS 2015 to align with the Globally Harmonised System (GHS) for the Classification and Labelling of Chemicals.

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