

Material Safety Data Sheet

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OSHA Edition

The following information is based upon our current knowledge and experience of our product and is not exhaustive. It applies to the product as defined by the specifications. In case of combinations or mixtures, one must confirm that no new hazards are likely to exist. In any case, the user is not exempt from observing all legal, administrative and regulatory procedures relating to the product, personal hygiene, and integrity of the work environment.

(Unless noted to the contrary, the technical information applies only to pure product).

1. IDENTIFICATION

1.1	Product Name:	Barium carbonate
1.2	Chemical Name:	Barium carbonate
1.3	Synonyms:	
1.4	Trade Names:	Statem September 1 Description of the Control of th
1.5	Formula:	BaCO ₃
1.6	Molecular Weight:	197.35
1.7	CAS No.:	513-77-9

1.8 EINECS No.:

2. COMPOSITION/ INFORMATION ON INGREDIENTS

Chemical Name: Barium carbonate

CAS: 513-77-9

ACGIH TLV: 0.5 mg/m³ for soluble Barium compounds as Barium (0.74 mg/m³

Activities to the second secon

(1992-1993) as BaCO₃) OSHA Pel (1992):

3. HAZARD IDENTIFICATION

3.1 Route of Exposure: Ingestion, Inhalation, Skin or Eye

3.2 Skin: Barium is not likely to penetrate intact skin; penetration through

cuts may cause symptoms of over-exposure. A slight irritation may

result from the alkaline nature of the product.

3.3 Eye: Particles in the eye may cause pain, tearing and irritation.

4. FIRST AID MEASURES

4.1 Inhalation: Flush mouth and nasal passages with water. Have victim drink

solution of 1 Tablespoon of Epson Salt (Magnesium Sulfate) or Glauber's Sulfate (Sodium Sulfate) dissolved in water. Call

for medical attention.

4.2 Eyes: Flush eyes with water until irritation subsides. Get medical

attention if necessary.

4.3 Skin: Wash with water and soap is available. Remove contaminated

clothing and wash before re-use.

4.4 Ingestion: Have victim drink solution of 1 Tablespoon of Epson Salt

(Magnesium Sulfate) or Glauber's Sulfate (Sodium Sulfate) dissolved in water. Induce vomiting if victim is completely

conscious. Call for medical attention.

4.5 Regulatory/

Carcinogenicity: Barium carbonate is not considered carcinogenic (1993

study of Barium chloride showed no evidence)

4.6 Medical Conditions

Aggravated by Exposure:

Acute over-exposure will cause severe abdominal pain, violent purging with watery bloody stools, vomiting, muscle twitching and confusion, followed by muscle paralysis of the respiratory muscles, which may be

fatal.

5. FIRE FIGHTING MEASURES

5.1 Common extinguishing methods: foam or water

5.2 Inappropriate extinguishing methods:

5.3 Specific hazards: Will decompose releasing Carbon dioxide gas at

extremely high temperatures.

5.4 Protective measures in case of intervention:

5.5 Other precautions: Limit water runoff if it is likely to contain

suspended product.

6. ACCIDENTAL RELEASE MEASURES

Try to keep material dry. Prevent runoff from entering sewers or ditches connected with natural waterways. Dispose of appropriately in compliance with local, state and federal laws and regulations.

7. HANDLING AND STORAGE

General storage conditions are not critical. Keep material dry. Store separate from acids.

Emptied containers may present a toxic hazard. Treat or dispose of empty containers in compliance with local, state and federal laws and regulations

	PROTECTION	
.1 Engineering controls:	Control airborne concentrations below the exposure limit. Use only with adequate ventilation.	
.2 Respiratory protection:	Use NIOSH approved dusk mask.	
.3 Hand protection: Wear	impervious gloves.	
	safety glasses. Use chemical goggles if excessive is present.	
.5 Skin protection: Cover	r exposed skin areas.	
.6 Other precautions:		
. PHYSICAL AND CHEMICAL PROP	PERTIES	
.1 Appearance: solid, white	te powder or granules	
2 Odor: usually odorless		
.3 pH: 9 (measured	d in a 1% suspension in water)	
.4 Boiling point/range:	N/A	
.5 Melting point/range:	1400°C (2552°F) - near decomposition temperature	
.6 Flash point: N/A	- This there are the of the participation of the control of the co	
.7 Flammability: N/A Lower limit: Upper limit:	Times as the best production of the segment of the best of the bes	
.8 Autoignition temperature:	N/A	
.9 Danger of explosion:	N/A	
.10 Combustible characterist	ics:	
.11 Vapor pressure:	N/A multaritimess stockis	
.12 Vapor density (air=1):	4.3	

9.13 Specific gravity (H20 = 1):

9.14 Solubility:

Water solubility: 0.02g/l (Barium Chloride BaCl₂ 375 g/l

Barium Sulfate BaSO₄ 0.002 g/l)

9.15 Viscosity: N/A

9.16 Decomposition temperature: See 9.5

9.17 Partition coefficient p (n-octanol/water): N/A

9.18 Other data: N/A

10. STABILITY AND REACTIVITY

10.1 Stability: stable under normal conditions

10.2 Conditions to avoid: heat

10.3 Materials to avoid: acids

10.4 Hazardous decomposition products: Carbon dioxide; soluble Barium salts

10.5 Other information:

11. TOXICOLOGICAL INFORMATION

11.1 Acute toxicity: LD50-oral: (rat) 630 mg/kg

11.2 Chronic toxicity:

Chronic over-exposure may lead to varying degrees of paralysis of the extremities. A condition known as "Bartosis" will be observed (x-ray of lungs will be influenced). Symptoms of over-exposure will disappear with time as the body eliminates Barium.

12. DISPOSAL CONSIDERATIONS

Waste and Packaging Treatment:

Dispose of in compliance with local, state, and federal laws and regulations.

13. TRANSPORT

13.1 UN No.: 1564

13.2 DOT Classification

DOT Proper shipping name:

Barium compounds, n.o.s.

Labels required: 6.1 (TOXIC)

Packing group:

PGIII

Hazard class:

14. REGULATORY INFORMATION

14.1 Authorized limit values:

TLV (ACGHIH) - TWA: $0.5~\text{mg/m}^3$ for soluble Barium compounds; Barium carbonate is not listed.

14.2 Other regulations:

15. OTHER INFORMATION

15.1 Edition date:

July 92

15.2 Revision No.:

97-01

15.3 Updated:

March 97