## Material Safety Data Sheet

Last update: March 97

Telephone No. (General): 1-203-629-7900 (Solvay) Telephone No. (Emergencies): 1-800-424-8300 (Chemtrec)

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	is the second se
1.3 Synonyms:		
1.4 Trade Names:		<u> </u>
1.5 Formula:	BaCO,	
1.6 Molecular Weight:	197.35	
1.7 CAS No.:	513-77-9	
1.8 EINECS No.:		

# 2. COMPOSITION/ INFORMATION ON INGREDIENTS

Chemical Nama: CAS:

Barium carbonate

ACGIH TLV:

513-77-9

(1992-1993)

3.2 Skin:

0.5  $mg/m^3$  for soluble Barium compounds as Barium (0.74  $mg/m^3$ as Baco,)

OSHA Pal (1992):

# 3. HAZARD IDENTIFICATION

- 3.1 Route of Exposura: Ingestion, Inhalation, Skin or Eye

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.

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

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

8. EXPOSURE CONTROLS/PERSONAL PROTECTION		
8.1 Engineering controls: Control airborne concentrations below the exposure limit. Use only with adequate ventilation.		
8.2 Respiratory protection: Use NIOSH approved dusk mask.		
8.3 Hand protection: Wear impervious gloves.		
8.4 Eye protection: Wear safety glasses. Use chemical goggles if excessive dust is present.		
8.5 Skin protection: Cover exposed skin areas.		
8.6 Other precautions:		
9. PHYSICAL AND CHEMICAL PROPERTIES		
9.1 Appearance: solid, white powder or granules		
9.2 Odor: usually odorless		
9.3 pH: 9 (measured in a 1% suspension in water)		
9.4 Boiling point/range: N/A		
9.5 Melting point/range: 1400°C (2552°F) - near decomposition temperature		
9.6 Flash point: N/A		
9.7 Flammability: N/A Lower limit: Upper limit:		
9.8 Autoignition temperature: N/A		
9.9 Danger of explosion: N/A		
9.10 Combustible characteristics:		
9.11 Vapor pressure: N/A		
9.12 Vapor density (air=1): 4.3		

Packing group:

PGIII

Hazard class:

# 14. REGULATORY INFORMATION

# 14.1 Authorized limit values:

TLV (ACGHIH) - TWA: 0.5 mg/m³ 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