

**BARIUM SULFATE****0827**

October 1999

CAS No: 7727-43-7  
RTECS No: CR0600000Barium sulphate  
Blanc fixe  
Artificial barite  
BaSO<sub>4</sub>  
Molecular mass: 233.43

TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/SYMPTOMS	PREVENTION	FIRST AID/FIRE FIGHTING
<b>FIRE</b>	Not combustible. Gives off irritating or toxic fumes (or gases) in a fire.		In case of fire in the surroundings: use appropriate extinguishing media.
<b>EXPLOSION</b>			
<b>EXPOSURE</b>		<b>PREVENT DISPERSION OF DUST!</b>	
<b>Inhalation</b>		Local exhaust or breathing protection.	Fresh air, rest.
<b>Skin</b>		Protective gloves.	Remove contaminated clothes. Rinse skin with plenty of water or shower.
<b>Eyes</b>		Safety spectacles.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
<b>Ingestion</b>		Do not eat, drink, or smoke during work.	Rinse mouth.

**SPILLAGE DISPOSAL**

Sweep spilled substance into containers; if appropriate, moisten first to prevent dusting. Personal protection: P1 filter respirator for inert particles.

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IPCS 2005**SEE IMPORTANT INFORMATION ON THE BACK.**

## IMPORTANT DATA

**Physical State; Appearance**

ODOURLESS TASTELESS, WHITE OR YELLOWISH CRYSTALS OR POWDER.

**Chemical dangers**

Reacts violently with aluminium powder.

**Occupational exposure limits**

TLV: 10 mg/m<sup>3</sup> as TWA; (ACGIH 2004).

MAK: (Inhalable fraction) 4 mg/m<sup>3</sup>; (Respirable fraction) 1.5 mg/m<sup>3</sup>; (DFG 2004).

**Routes of exposure**

The substance can be absorbed into the body by inhalation of its aerosol.

**Inhalation risk**

Evaporation at 20°C is negligible; a nuisance-causing concentration of airborne particles can, however, be reached quickly.

**Effects of long-term or repeated exposure**

Lungs may be affected by repeated or prolonged exposure to dust particles, resulting in baritosis (a form of benign pneumoconiosis).

## PHYSICAL PROPERTIES

Melting point (decomposes): 1600°C

Density: 4.5 g/cm<sup>3</sup>

Solubility in water: none

## ENVIRONMENTAL DATA

## NOTES

Occurs in nature as the mineral barite; also as barytes, heavy spar.

Card has been partly updated in October 2005. See section Occupational Exposure Limits.

## ADDITIONAL INFORMATION

## LEGAL NOTICE

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