

## Safety Data Sheet

### BARIUM SULPHATE / BARIUM SULFATE

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## 1 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1 Product identifiers

Chemical Name	BARIUM SULFATE (FILLER)
CAS NO.	7727-43-7

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

1. It is used in powder coatings to improve glossiness and hardness of the product's surface.
2. It is used as a white extender that both increases specific gravity and improves the chemical resistance of the surface coating.

### Details of the supplier of the safety data sheet

#### COMPANY

POLYMER ADD (THAILAND) CO., LTD.  
 106, Chalaremprakiat, Lor 9, Soi 22, Yak  
 5, Nongbon, Prawet, Bangkok  
 Bangkok - 10250  
 Thailand  
 Telephone : 0804531391  
 Email - contact@polymeradd.co.th

## 2 HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

Physical and Chemical Hazards	Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.
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This substance is not classified as dangerous according to Directive 67/548/EEC. For the full text of the R-phrases mentioned in this section

### 2.2 Labelling according Regulation (EC) No 1272/2008 [CLP]

Label elements	The product does not need to be labelled in accordance with EC directives or respective national laws.
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### 2.3 Other hazards

## 3 COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substances

Component	Barium Sulfate
Chemical Name	
CAS NO	7727-43-7
EC Number	231-784-4
Molecular Formula	BaSO <sub>4</sub>
Molecular Weight	233.43 g/mol.

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**Concentration** 98 % Min. (Other impurities or unreacted material)

#### 4 FIRST AID MEASURES

##### 4.1 Description of first aid measures

###### General advice

###### If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration.

###### In case of skin contact

Wash off with soap and plenty of water.

###### In case of eye contact

Flush eyes with water as a precaution.

###### If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water.

##### 4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.

##### 4.3 Indication of any immediate medical attention and special treatment needed

No data available

#### 5 FIREFIGHTING MEASURES

##### 5.1 Extinguishing media

###### Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

##### 5.2 Special hazards arising from the substance or mixture

Sulphur oxides, Barium oxide

##### 5.3 Advice for firefighters

Wear self contained breathing apparatus for firefighting if necessary

##### 5.4 Further information

#### 6 ACCIDENTAL RELEASE MEASURES

##### 6.1 Personal precautions protective equipment and emergency procedures

Avoid dust formation. Avoid breathing vapours, mist or gas. For personal protection see section 8.

##### 6.2 Environmental precautions

No special environmental precautions required.

##### 6.3 Methods and materials for containment and cleaning up

Sweep up and shovel. Keep in suitable, closed containers for disposal.

##### 6.4 Reference to other sections

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For disposal see section 13.

## 7 HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2.

### 7.2 Information about protection against explosions and fires

No data available

### 7.3 Conditions for safe storage including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

### 7.4 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

## 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

#### Appropriate engineering controls

General industrial hygiene practice.

#### Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

#### Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product.

Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices

Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

#### Body Protection

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.,

The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### Respiratory protection

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks

Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

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**Control of environmental exposure**

No special environmental precautions required.

**9 PHYSICAL AND CHEMICAL PROPERTIES**

a) Appearance	Form: Powder
d) pH (% solution in water)	1
pH	6.5 - 7.5
e) Melting point/freezing point	1580 Å°C
f) Initial boiling point and boiling range	1600 Å°C at 1.013 hPa
m) Relative density	4.400 g/cm <sup>3</sup> at 20 Å°C
n) Water solubility	0.000285 gm/ 100 ml

**9.2 Other safety information**

**10 STABILITY AND REACTIVITY**

10.1 Reactivity	
10.2 Chemical stability	Stable under recommended storage conditions
10.3 Possibility of hazardous reactions	
10.4 Conditions to avoid	
10.5 Incompatible materials	
10.6 Hazardous decomposition products	No data available In the event of fire: see section 5

**11 TOXICOLOGICAL INFORMATION**

**11.1 Information on toxicological effects**

<b>Germ cell mutagenicity</b>	Mouse: Micronucleus test
<b>Carcinogenicity</b>	Rat - Intrapleural; Tumorigenic: Equivocal tumorigenic agent by RTECS criteria. Lungs, Thorax, or Respiration: Tumors.
<b>IARC</b>	No components of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
<b>RTECS</b>	CR0600000

**Signs And Symptoms of Exposure**

Signs And Symptoms of Exposure Prolonged inhalation of dust may cause baritosis, a benign pneumoconiosis. If ingested, the presence of soluble barium salts as impurities may cause toxic reactions due

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#### 12 ECOLOGICAL INFORMATION

12.1 Toxicity

12.2 Persistence and degradability

##### Biodegradation

The methods for determining biodegradability are not applicable to inorganic substances.

12.3 Bio accumulative potential

12.4 Mobility in soil

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects

#### 13 DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

##### Product

Offer surplus and non-recyclable solutions to a licensed disposal company.

##### Contaminated packaging

Dispose of as unused product.

#### 14 TRANSPORT INFORMATION

14.1 UN number

ADR/RID

IMDG

IATA

-

-

-

14.2 UN proper shipping name

ADR/RID

IMDG

IATA

Not dangerous goods

Not dangerous goods

Not dangerous goods

14.3 Transport hazard class(es)

ADR/RID

IMDG

IATA

-

-

-

14.4 Packaging group

ADR/RID

IMDG

IATA

-

-

-

14.5 Environmental hazards

ADR/RID

IMDG Marine pollutant

IATA

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	No	No	No	
14.6	Special precautions for user		Special precautions for user	

**15 REGULATORY INFORMATION**

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

**15.1 Safety health and environmental regulations/legislation specific for the substance or mixture**

No data available

**15.2 Chemical Safety Assessment**

For this product a chemical safety assessment was not carried out

**16 OTHER INFORMATION**

**Further information**

The information contained herein is based on the present state of knowledge.

It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product.

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