

## Safety data sheet

### ULTRADUR® B 4406 G4 BLACK 07110 POLYBUTYLENE TEREPHTHALATE

Revision date : 2006/04/26

Version: 1.0

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(30035777/MDS\_GEN\_US/EN)

#### 1. Substance/preparation and company identification

Company  
BASF CORPORATION  
100 Campus Drive  
Florham Park, NJ 07932, USA

24 Hour Emergency Response Information  
CHEMTREC: 1-800-424-9300  
BASF HOTLINE: 1-800-832-HELP

Molecular formula: (C<sub>12</sub>H<sub>12</sub>O<sub>4</sub>)N  
Synonyms: Poly(butylene terephthalate)

#### 2. Composition/information on ingredients

<u>CAS Number</u>	<u>Content (W/W)</u>	<u>Chemical name</u>
30965-26-5	>= 30.0 %	polybutylene terephthalate (PBT)
65997-17-3	>= 10.0 - <= 30.0 %	Glass, oxide, chemicals
1333-86-4	<= 1.0 %	carbon black
	<= 6.0 %	Antimony compounds

#### 3. Hazard identification

##### Emergency overview

CAUTION: MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION.  
INGESTION MAY CAUSE GASTRIC DISTURBANCES.

Use with local exhaust ventilation.

Wear a NIOSH-certified (or equivalent) particulate respirator.

Wear protective clothing.

Eye wash fountains and safety showers must be easily accessible.

##### Potential health effects

###### **Primary routes of exposure**

Routes of entry for solids and liquids include eye and skin contact, ingestion and inhalation. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquified gases.

###### **Acute toxicity:**

Ingestion may cause gastrointestinal disturbances. Contact with molten product may cause thermal burns.

###### *Information on: Antimony*

*Overexposure to Antimony dust or fumes may cause dermatitis, liver damage, severe irritation of the eyes, nasal passages, throat and lungs.*

###### **Irritation:**

Irritation is possible when the product comes in contact with the skin, respiratory tract or the eyes.



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Information on: *Ultradur PBT*

*ULTRADUR PBT resin in pellet form is not expected to be hazardous.*

### Repeated dose toxicity:

Information on: *Antimony*

*Chronic exposures to antimony may cause indigestion, loss of appetite, diarrhea, muscular pains, and dizziness. Chronic inhalation can cause pneumoconiosis. Cardiac complications from therapeutic use have been reported. A study of female workers exposed to antimony compounds revealed higher incidences of spontaneous abortions, premature births, and gynecological problems. ACGIH lists the production of antimonytrioxide as being suspect in causing cancer in humans. A retrospective study revealed an increased incidence of lung cancer among antimony smelter workers. IARC has included antimony in Group 2B.*

Information on: *Carbon black*

*Prolonged inhalation exposures may produce cough, phlegm, tiredness, chest pain and headache. Chronic exposures have been known to produce pneumoconiosis (chronic inflammatory and fibrotic lung disease).*

Information on: *Fiberglass*

*This product contains glass fibers which are compounded into the polymer matrix and thus are not expected to present the same hazards as fiberglass wool.*

Information on: *Fiberglass*

*Animal implantation studies have indicated that fiberglass wool is an animal carcinogen. A small study of Canadian glass wool workers reported a statistically significant increase in deaths due to lung cancer; however, animal inhalation studies and several large-scale studies of U.S. and European fiberglass wool workers have shown no statistically significant increases in lung cancer. The International Agency for Research on Cancer (IARC) has classified this material in Category 2B.*

Information on: *Fiberglass*

*These findings are based on glass wool, which has a smaller diameter than continuous glass filament or glass fiber chopped strands or rovings. Fiberglass wool is not used in this product.*

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## 4. First-aid measures

### General advice:

Remove contaminated clothing.

### If inhaled:

Remove the affected individual into fresh air and keep the person calm. Assist in breathing if necessary. Immediate medical attention required.

### If on skin:

Burns caused by molten material require hospital treatment.

### If in eyes:

In case of contact with the eyes, rinse immediately for at least 15 minutes with plenty of water. If irritation develops, seek medical attention.

### If swallowed:

Rinse mouth and then drink plenty of water. Induce vomiting. Immediate medical attention required.

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## 5. Fire-fighting measures

Flash point:

Autoignition:

> 350 °C

No data available.

(ASTM D1929)

### Suitable extinguishing media:

water, foam, dry extinguishing media





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### Personal protective equipment

#### **Respiratory protection:**

Wear respiratory protection if ventilation is inadequate. Wear a NIOSH-certified (or equivalent) particulate respirator.

#### **Hand protection:**

Wear gloves to prevent contact during mechanical processing and/or hot melt conditions.

#### **Eye protection:**

Tightly fitting safety goggles (chemical goggles).

#### **General safety and hygiene measures:**

Wear protective clothing to prevent contact during mechanical processing and/or hot melt conditions. Avoid inhalation of dust. Wash soiled clothing immediately.

## 9. Physical and chemical properties

Form:	granules
Odour:	odourless
Colour:	various, depending on the colourant
pH value:	No data available.
melting range:	220 - 230 °C (DIN 53736)
Density:	1.60 - 1.70 g/cm <sup>3</sup> (EN/ISO 1183-1)
Bulk density:	600 - 800 kg/m <sup>3</sup>
Solubility in water:	insoluble

## 10. Stability and reactivity

#### **Decomposition products:**

Hazardous decomposition products: carbon monoxide, tetrahydrofuran, Danger by forming of toxic pyrolytic products.

#### **Thermal decomposition:**

> 290 °C

To avoid thermal decomposition, do not overheat.

## 11. Toxicological information

### Chronic toxicity

#### **Other information:**

Based on our experience and the information available, no adverse health effects are expected if handled as recommended with suitable precautions for designated uses.

## 12. Ecological information

### Environmental fate and transport

#### **Biodegradation:**

Evaluation: Experience shows this product to be inert and non-degradable.



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### Bioaccumulation:

The product will not be readily bioavailable due to its consistency and insolubility in water..

## 13. Disposal considerations

### Waste disposal of substance:

Check for possible recycling.

Must be dumped or incinerated in accordance with local regulations.

### Container disposal:

Packs must be completely emptied. Completely emptied packagings can be given for recycling.

## 14. Transport information

### Land transport

USDOT

Not classified as a dangerous good under transport regulations

### Sea transport

IMDG

Not classified as a dangerous good under transport regulations

### Air transport

IATA/ICAO

Not classified as a dangerous good under transport regulations

## 15. Regulatory information

### Federal Regulations

#### Registration status:

TSCA, US

released / listed

#### SARA 313:

##### CAS Number

##### Chemical name

Antimony compounds

### State regulations

#### State RTK

##### CAS Number

65997-17-3

##### Chemical name

Glass, oxide, chemicals  
carbon black

##### State RTK

MA, NJ, PA

1333-86-4

MA, NJ, PA



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### 16. Other information

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#### Local contact information

Tech Desk

1-800-527-8324

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