

## Safety data sheet

### ULTRADUR® B 4406 UNCOLORED POLYBUTYLENE TEREPHTHALATE

Revision date : 2006/07/06

Version: 1.0

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(30036534/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: (C12 H12 O4)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 - <= 60.0 %	polybutylene terephthalate (PBT)
26062-94-2	>= 30.0 - <= 60.0 %	polybutylene terephthalate (PBT)
	<= 5.0 %	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 NIOSH-certified chemical goggles.

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:

No known chronic effects.

*Information on: Antimony*

*Chronic exposures to antimony may cause indigestion, loss of appetite, diarrhea, muscular pains, and dizziness. Chronic inhalation can cause pneumonoconiosis. 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.*

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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:

No data available.

Autoignition:

> 350 °C

(ASTM D1929)

### Suitable extinguishing media:

water, foam, dry extinguishing media

### Hazards during fire-fighting:

carbon monoxide, tetrahydrofuran, hydrogen halides, brominated dibenzodioxins can be emitted at > 290 °C  
Under special fire conditions traces of other toxic substances are possible. Formation of further decomposition and oxidation products depends upon the fire conditions.

### Protective equipment for fire-fighting:

Wear a self-contained breathing apparatus.

### Further information:

Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.



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### 6. Accidental release measures

#### **Environmental precautions:**

This product is not regulated by RCRA. This product is not regulated by CERCLA ('Superfund').

#### **Cleanup:**

For small amounts: Pick up with suitable appliance and dispose of.

For large amounts: Pick up with suitable appliance and dispose of.

#### **Further information:**

High risk of slipping due to leakage/spillage of product.

### 7. Handling and storage

#### Handling

##### **General advice:**

Avoid dust formation. Exhaust ventilation at processing machines is required during thermal processing and/or machining. Cleaning of product-contaminated machine parts with open flames should be avoided. If task are carried out with open flames, ventilation measures are mandatory.

##### **Protection against fire and explosion:**

Take precautionary measures against static discharges.

#### Storage

##### **General advice:**

Keep container tightly closed.

### 8. Exposure controls and personal protection

#### **Advice on system design:**

Provide local exhaust ventilation to control dusts/vapours.

#### Personal protective equipment

##### **Respiratory protection:**

Breathing protection if breathable aerosols/dust are formed. Particle filter with low efficiency for solid particles (e.g. EN 143 or 149, Type P1or FFP1)

##### **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



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Odour:	odourless
Colour:	various, depending on the colourant
pH value:	No data available.
melting range:	220 - 230 °C (DIN 53736)
Boiling range:	215 - 230 °C (1 ATM)
Density:	1.40 - 1.50 g/cm3 (EN/ISO 1183-1)
Bulk density:	600 - 800 kg/m3
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.

#### **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



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### 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 hazard categories (EPCRA 311/312):** Not hazardous

#### **SARA 313:**

**CAS Number**  
1309-64-4

**Chemical name**  
diantimony trioxide

## 16. Other information

### **HMIS III rating**

Health: 1      Flammability: 1      Physical hazard: 0

HMIS uses a numbering scale ranging from 0 to 4 to indicate the degree of hazard. A value of zero means that the substance possesses essentially no hazard; a rating of four indicates high hazard.

### **Local contact information**

Tech Desk  
1-800-527-8324

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