



The Chemical Company

# Safety data sheet

## ULTRADUR® S4090 G4 LS HSP BK 15077 POLYBUTYLENE TEREPHTHALATE

Revision date : 2006/07/14  
Version: 1.0

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(30270653/MDS\_GEN\_US/EN)

### 1. Substance/preparation and company identification

Company  
BASF CORPORATION  
100 Park Avenue  
Florham Park, NJ 07932, USA

24 Hour Emergency Response Information  
CHEMTREC: 1-800-424-9300  
BASF HOTLINE: 1-800-832-HELP (4357)

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	>= 10.0 - <= 30.0 %	polybutylene terephthalate (PBT)
65997-17-3	>= 10.0 - <= 30.0 %	Glass, oxide, chemicals
26062-94-2	>= 10.0 - <= 30.0 %	polybutylene terephthalate (PBT)
1333-86-4	<= 1.0 %	carbon black

### 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:**

Contact with molten product may cause thermal burns. The resin in pelleted form poses a low hazard.

##### **Repeated dose toxicity:**

No known chronic effects.

*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.*



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### 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.*

### 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).*

## 4. First-aid measures

### General advice:

Remove contaminated clothing.

### If inhaled:

Assist in breathing if necessary. Keep patient calm, remove to fresh air. Consult a physician.

### If on skin:

Burns caused by molten material require hospital treatment.

### If in eyes:

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

### If swallowed:

Ingestion is not likely in the available physical form. If ingested, seek medical attention.

## 5. Fire-fighting measures

Autoignition:

> 400 °C

(ASTM D1929)

### Suitable extinguishing media:

water, dry extinguishing media, foam

### Hazards during fire-fighting:

carbon monoxide, tetrahydrofuran, acrylonitrile, Styrene, alpha-Methylstyrene, n-butyl acrylate, can be emitted at > 300 °C

Under special fire conditions traces of other toxic substances are possible. Formation of further decomposition and oxidation products depends upon the fire conditions.

### Further information:

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



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### 6. Accidental release measures

#### 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

##### Protection against fire and explosion:

Take precautionary measures against static discharges.

#### Storage

##### General advice:

Keep container tightly closed. Avoid deposition of dust.

##### Storage stability:

Protect against moisture.

### 8. Exposure controls and personal protection

#### Components with workplace control parameters

Glass, oxide, chemicals

carbon black	ACGIH	TWA value 5 mg/m3 Inhalable fraction ; TWA value 1 fibers/cm <sup>3</sup> Fiber ; TWA value 1 fibers/cm <sup>3</sup> Fiber ; TWA value 0.2 fibers/cm <sup>3</sup> Fiber ;
	OSHA ACGIH	PEL 3.5 mg/m3 ; TWA value 3.5 mg/m3 ;

#### Advice on system design:

Ensure adequate ventilation.

#### 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).

##### Body protection:

Body protection must be chosen based on level of activity and exposure.

##### General safety and hygiene measures:

Avoid inhalation of vapour.



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### 9. Physical and chemical properties

Form:	granules	
Odour:	odourless	
Colour:	various, depending on the colourant	
melting range:	220 - 225 °C	(DIN/EN/ISO 3146)
Density:	1.30 - 1.50 g/cm3	(EN/ISO 1183-1)
Bulk density:	600 - 900 kg/m3	
Solubility in water:		insoluble

### 10. Stability and reactivity

#### Conditions to avoid:

Temperature: > 300 degrees Celsius

#### Decomposition products:

Hazardous decomposition products: carbon monoxide, tetrahydrofuran, acrylonitrile, Styrene, alpha-Methylstyrene, n-butyl acrylate

### 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.

May be disposed of or combusted with domestic refuse according to local regulations.

#### Container disposal:

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



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

#### State regulations

##### State RTK

CAS Number  
65997-17-3  
1333-86-4

Chemical name  
Glass, oxide, chemicals  
carbon black

State RTK  
MA, NJ, PA  
MA, NJ, PA

### 16. Other information

Local contact information  
Tech Desk  
1-800-527-8324

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