

## Safety Data Sheet

# ULTRADUR® B 2300 G6 HR UNCOLORED POLYBUTYLENE TEREPHTHALATE

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Version: 1.0

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(30426072/SDS\_GEN\_US/EN)

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### 1. Identification

**Product identifier used on the label**

## ULTRADUR® B 2300 G6 HR UNCOLORED POLYBUTYLENE TEREPHTHALATE

**Recommended use of the chemical and restriction on use**

Recommended use\*: Polymer; for industrial processing only  
Suitable for use in industrial sector: Polymers industry

\* The "Recommended use" identified for this product is provided solely to comply with a US Federal requirement and is not part of the seller's published specification. The terms of this Safety Data Sheet (SDS) do not create or infer any warranty, express or implied, including by incorporation into or reference in the seller's sales agreement.

**Details of the supplier of the safety data sheet**

Company:

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

Telephone: +1 973 245-6000

**Emergency telephone number**

CHEMTREC: 1-800-424-9300  
BASF HOTLINE: 1-800-832-HELP (4357)

**Other means of identification**

Synonyms: polybutylene terephthalate

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### 2. Hazards Identification

**According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200**

**Classification of the product**

No need for classification according to GHS criteria for this product.

**Label elements**

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The product does not require a hazard warning label in accordance with GHS criteria.

### Hazards not otherwise classified

No specific dangers known, if the regulations/notes for storage and handling are considered.

**According to Regulation 1994 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200**

### Emergency overview

CAUTION:

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

Use with local exhaust ventilation.

Respiratory protection may not be required under normal operating conditions if adequate ventilation is provided.

Wear NIOSH-certified chemical goggles.

Wear protective clothing.

Eye wash fountains and safety showers must be easily accessible.

## 3. Composition / Information on Ingredients

**According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200**

<u>CAS Number</u>	<u>Content (W/W)</u>	<u>Chemical name</u>
25068-38-6	>= 0.3 - < 1.0 %	bisphenol A-epichlorohydrin resin
65997-17-3	>= 20.0 - <= 40.0 %	Glass, oxide, chemicals

**According to Regulation 1994 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200**

<u>CAS Number</u>	<u>Content (W/W)</u>	<u>Chemical name</u>
65997-17-3	>= 20.0 - <= 40.0 %	Glass, oxide, chemicals
30965-26-5	>= 20.0 - <= 40.0 %	polybutylene terephthalate (PBT)
26062-94-2	>= 20.0 - <= 40.0 %	polybutylene terephthalate (PBT)

## 4. First-Aid Measures

### Description of first aid measures

#### General advice:

Avoid contact with the skin, eyes and clothing. Remove contaminated clothing.

#### If inhaled:

Remove the affected individual into fresh air and keep the person calm. Assist in breathing if necessary. Consult a physician.

#### If on skin:

Wash affected areas thoroughly with soap and water. If irritation develops, seek medical attention.

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

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

Symptoms: No significant reaction of the human body to the product known.

Hazards: No hazard is expected under intended use and appropriate handling.

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

#### Note to physician

Treatment: Treat symptomatically.

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## 5. Fire-Fighting Measures

### **Extinguishing media**

Suitable extinguishing media:  
water spray, foam, dry powder

carbon dioxide

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

Hazards during fire-fighting:

carbon monoxide, tetrahydrofuran, 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.

### **Advice for fire-fighters**

Protective equipment for fire-fighting:

Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.

### **Further information:**

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

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## 6. Accidental release measures

### Further accidental release measures:

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

### **Personal precautions, protective equipment and emergency procedures**

No special precautions necessary.

### **Environmental precautions**

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

No special precautions necessary.

### Methods and material for containment and cleaning up

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

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

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## 7. Handling and Storage

### Precautions for safe handling

Protection against fire and explosion:

Take precautionary measures against static discharges.

The product is capable of dust explosion.

### Conditions for safe storage, including any incompatibilities

Suitable materials for containers: Low density polyethylene (LDPE), High density polyethylene (HDPE), Stainless steel, aluminum

Further information on storage conditions: Keep container tightly closed. Avoid deposition of dust. Protect against moisture.

Storage stability:

Protect against moisture.

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## 8. Exposure Controls/Personal Protection

### Components with occupational exposure limits

Glass, oxide, chemicals

ACGIH TLV	TWA value 5 mg/m <sup>3</sup> Inhalable fraction ; TWA value 1 fibers/cm <sup>3</sup> Fiber ; Respirable fibers: length > 5 micrometers; aspect ration >= 3:1, as determined by the membrane filter method at 400-450X magnification (4-mm objective), using phase-contrast illumination.
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### Advice on system design:

Provide local exhaust ventilation to control dusts/vapours.

### Personal protective equipment

#### Respiratory protection:

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

#### Hand protection:

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

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### Eye protection:

Tightly fitting safety goggles (chemical goggles).

### Body protection:

Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust).

### 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:	pellets	
Odour:	odourless	
Odour threshold:		not applicable
Colour:	various, depending on the colourant	
pH value:		not applicable
melting range:	220 - 230 °C	(DIN 53736)
Boiling range:		The substance / product decomposes therefore not determined.
Sublimation point:		No applicable information available.
Flash point:		not applicable
Flammability:	not self-igniting	
Flammability of Aerosol Products:		not applicable, the product does not form flammable aerosoles)
Lower explosion limit:		The substance / product decomposes therefore not determined.
Autoignition:	350 °C	(ASTM D1929)
Vapour pressure:		not applicable
Density:	1.3 - 1.8 g/cm <sup>3</sup>	( 20 °C) (EN ISO 1183-1)
Relative density:		No data available.
Bulk density:	600 - 900 kg/m <sup>3</sup>	
Vapour density:		not applicable
Partitioning coefficient n-octanol/water (log Pow):		not applicable
Self-ignition temperature:		not self-igniting
Thermal decomposition:	> 300 °C May decompose if overheated and/or subjected to prolonged heating.	
Viscosity, dynamic:		not applicable, the product is a solid
Viscosity, kinematic:		not applicable, the product is a solid
Solubility in water:		insoluble
Evaporation rate:		The product is a non-volatile solid.

## 10. Stability and Reactivity

### Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

### Chemical stability

The product is stable if stored and handled as prescribed/indicated.

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### Possibility of hazardous reactions

The product is chemically stable.  
No hazardous reactions known.

### Conditions to avoid

Temperature: > 290 degrees Celsius

### Incompatible materials

No substances known that should be avoided.

### Hazardous decomposition products

Decomposition products:

Hazardous decomposition products: carbon monoxide, tetrahydrofuran, terephthalic acid, carbon dioxide, Water

Thermal decomposition:

> 300 °C

May decompose if overheated and/or subjected to prolonged heating.

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## 11. Toxicological information

### Primary routes of exposure

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

### Acute Toxicity/Effects

#### Acute toxicity

Assessment of acute toxicity: Contact with molten product may cause thermal burns. The resin in pelleted form poses a low hazard.

#### Inhalation

Not inhalable due to the physico-chemical properties of the product.

#### Dermal

Type of value: ATE

Value: > 5,000 mg/kg

#### Irritation / corrosion

Assessment of irritating effects: Thermal decomposition products of the substance can irritate the eyes, skin, and respiratory tract.

#### Sensitization

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

*Information on: bisphenol A-epichlorohydrin resin*

*Assessment of sensitization:*

*Sensitization after skin contact possible.*

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### Aspiration Hazard

No aspiration hazard expected.

### **Chronic Toxicity/Effects**

#### Genetic toxicity

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

#### Carcinogenicity

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

#### 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.

### **Symptoms of Exposure**

No significant reaction of the human body to the product known.

#### Medical conditions aggravated by overexposure

Data available do not indicate that there are medical conditions that are generally recognized as being aggravated by exposure to this substance/product. See MSDS section 11 - Toxicological information.

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## **12. Ecological Information**

### **Toxicity**

#### Aquatic toxicity

Assessment of aquatic toxicity:

The product has not been tested. The statement has been derived from the structure of the product. There is a high probability that the product is not acutely harmful to aquatic organisms.

#### Aquatic toxicity

*Information on: Glass, oxide, chemicals*

*Assessment of aquatic toxicity:*

*There is a high probability that the product is not acutely harmful to aquatic organisms. Based on long-term (chronic) toxicity study data, the product is very likely not harmful to aquatic organisms.*

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### **Persistence and degradability**

#### Assessment biodegradation and elimination (H<sub>2</sub>O)

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

### **Bioaccumulative potential**

#### Bioaccumulation potential

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

### 13. Disposal considerations

**Waste disposal of substance:**

Incinerate in a licensed facility. Do not discharge substance/product into sewer system.

**Container disposal:**

Dispose of in accordance with national, state and local regulations.

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:**

Chemical TSCA, US released / exempt

**EPCRA 311/312 (Hazard categories):**

Not hazardous;

**State regulations**

**State RTK**

MA, NJ, PA

**CAS Number**

65997-17-3

**Chemical name**

Glass, oxide, chemicals

**NFPA Hazard codes:**

Health : 1 Fire: 1 Reactivity: 0 Special:

**HMIS III rating**

Health: 1 Flammability: 1 Physical hazard: 0



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### 16. Other Information

**SDS Prepared by:**  
BASF NA Product Regulations  
SDS Prepared on: 2015/01/20

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