

## Safety Data Sheet

# ULTRADUR® B 4300 G3 UNCOLORED POLYBUTYLENE TEREPHTHALATE

Revision date : 2016/09/07  
Version: 5.1

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(30099055/SDS\_GEN\_US/EN)

### 1. Identification

#### Product identifier used on the label

## ULTRADUR® B 4300 G3 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 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

Molecular formula: (C<sub>12</sub>H<sub>12</sub>O<sub>4</sub>)<sub>n</sub>  
Chemical family: polyester resin  
Synonyms: Poly(butylene terephthalate)

### 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.

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### Hazards not otherwise classified

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

### 3. Composition / Information on Ingredients

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

<u>CAS Number</u>	<u>Weight %</u>	<u>Chemical name</u>
109-99-9	>= 0.2 - < 1.0%	tetrahydrofuran

### 4. First-Aid Measures

#### Description of first aid measures

##### General advice:

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

##### If inhaled:

If difficulties occur after dust has been inhaled, remove to fresh air and seek medical attention.

##### 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. 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.

### 5. Fire-Fighting Measures

#### Extinguishing media

Suitable extinguishing media:  
water spray, foam, dry powder

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

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### 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

Use personal protective clothing.

### Environmental precautions

No special precautions necessary. This product is not regulated by RCRA. This product is not regulated by CERCLA ('Superfund').

### 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.

### Conditions for safe storage, including any incompatibilities

The product in undamaged packing need not be stored separately.

Suitable materials for containers: Low density polyethylene (LDPE)

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

### Advice on system design:

Provide local exhaust ventilation to control dusts/vapours.

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### Personal protective equipment

#### **Respiratory protection:**

Wear respiratory protection if ventilation is inadequate. Wear a NIOSH-certified (or equivalent) organic vapour/particulate respirator. Do not exceed the maximum use concentration for the respirator facepiece/cartridge combination.

#### **Hand protection:**

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

#### **Eye protection:**

Safety glasses with side-shields. 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:**

No special precautions necessary. After use of gloves apply skin-cleaning agents and skin cosmetics.

## 9. Physical and Chemical Properties

Form:	pellets	
Odour:	odourless	
Odour threshold:	not applicable	
Colour:	white	
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:	No data available.	
Flammability:	not self-igniting	
Flammability of Aerosol Products:	not applicable, the product does not form flammable aerosoles	
Lower explosion limit:	For solids not relevant for classification and labelling.	
Upper explosion limit:	For solids not relevant for classification and labelling.	
Autoignition:	350 °C	(ASTM D1929)
Vapour pressure:	not applicable	
Density:	1.25 - 1.35 g/cm <sup>3</sup> ( 20 °C, 1 hPa)	(EN ISO 1183-1)
Relative density:	No data available.	
Bulk density:	600 - 900 kg/m <sup>3</sup> ( 20 °C, 1,013 hPa)	(DIN 53466)
Vapour density:	not applicable	
Partitioning coefficient n-octanol/water (log Pow):	not applicable	
Self-ignition temperature:	not self-igniting	
Thermal decomposition:	> 290 °C Thermal decomposition above the indicated temperature is possible.	
Viscosity, dynamic:	not applicable, the product is a solid	

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Viscosity, kinematic:	not applicable, the product is a solid
Solubility in water:	insoluble
Solubility (quantitative):	No applicable information available.
Solubility (qualitative):	No applicable information available.
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.

#### 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:

> 290 °C

Thermal decomposition above the indicated temperature is possible.

### 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.

##### Assessment other acute effects

No applicable information available.

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### 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.

### Aspiration Hazard

No aspiration hazard expected.

## Chronic Toxicity/Effects

### Repeated dose toxicity

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

### 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.

### *Information on: tetrahydrofuran*

*Assessment of carcinogenicity: In long-term studies in rodents exposed to high doses, a tumorigenic effect was found; however, these results are thought to be due to a rodent-specific liver effect that is not relevant to humans. The observed kidney tumors in rats are regarded as a consequence of a species-specific mechanism and thus not relevant for man.*

*In long-term animal studies in which the substance was given by inhalation in high concentrations, a carcinogenic effect was observed.*

### Other Information

The product has not been tested. The statement has been derived from the properties of the individual components.

## Symptoms of Exposure

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

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## 12. Ecological Information

### Toxicity

#### Aquatic toxicity

Assessment of aquatic toxicity:

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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.

### Persistence and degradability

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

The product is virtually insoluble in water and can thus be separated from water mechanically in suitable effluent treatment plants.

### Bioaccumulative potential

#### Bioaccumulation potential

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

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## 13. Disposal considerations

### **Waste disposal of substance:**

Check for possible recycling. Dispose of in accordance with national, state and 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

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## 15. Regulatory Information

### Federal Regulations

#### **Registration status:**

Chemical TSCA, US released / listed

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

Not hazardous;

### State regulations

#### State RTK

NJ

#### CAS Number

65997-17-3

#### Chemical name

Glass, oxide, chemicals

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PA 65997-17-3 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: 2016/09/07

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