

Safety Data Sheet

ULTRADUR® B4300 G4 FC UNCOLOURED POLYBUTYLENE TEREPHTHALATE

Revision date : 2012/01/31

Page: 1/6

Version: 1.0

(30465035/SDS_GEN_US/EN)

1. Product 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

2. Hazards Identification

Emergency overview

CAUTION:

MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION.

INGESTION MAY CAUSE GASTRIC DISTURBANCES.

Contains an IARC Group 2B carcinogen - possibly carcinogenic to humans.

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.

State of matter: solid

Colour: various, depending on the colourant

Odour: odourless

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.

Irritation / corrosion:

Thermal decomposition products of the substance can irritate the eyes, skin, and respiratory tract.

Sensitization:

The substance is inert.

Chronic toxicity:

Safety Data Sheet

ULTRADUR® B4300 G4 FC UNCOLOURED POLYBUTYLENE TEREPHTHALATE

Revision date : 2012/01/31
Version: 1.0

Page: 2/6
(30465035/SDS_GEN_US/EN)

Carcinogenicity: The substance is inert.

Genotoxicity: The substance is inert.

Signs and symptoms of overexposure:

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

Potential environmental effects

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.

Degradation / environmental fate:

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

3. Composition / Information on Ingredients

<u>CAS Number</u>	<u>Content (W/W)</u>	<u>Chemical name</u>
26062-94-2	>= 30.0 - <= 50.0 %	polybutylene terephthalate (PBT)
30965-26-5	>= 30.0 - <= 50.0 %	polybutylene terephthalate (PBT)
65997-17-3	>= 15.0 - <= 30.0 %	Glass, oxide, chemicals

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. 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. Consult a physician.

5. Fire-Fighting Measures

Flash point:

Autoignition:

Self-ignition temperature:

350 °C

No data available.

(ASTM D1929)

not self-igniting

Suitable extinguishing media:

water spray, foam, dry powder

Hazards during fire-fighting:

carbon monoxide, tetrahydrofuran, can be emitted at > 290 °C



Safety Data Sheet

ULTRADUR® B4300 G4 FC UNCOLOURED POLYBUTYLENE TEREPHTHALATE

Revision date : 2012/01/31

Version: 1.0

Page: 3/6

(30465035/SDS_GEN_US/EN)

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:

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.

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

Protection against fire and explosion:

Take precautionary measures against static discharges.

Storage

General advice:

Keep container tightly closed. Avoid deposition of dust. Protect against moisture.

Storage stability:

Protect against moisture.

8. Exposure Controls and Personal Protection

Components with workplace control parameters

Glass, oxide, chemicals

ACGIH

TWA value 5 mg/m³ Inhalable fraction ; TWA value
1 fibers/cm³ Fiber ; TWA value 1 fibers/cm³ Fiber ;
TWA value 0.2 fibers/cm³ Fiber ;

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. 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.



Safety Data Sheet

ULTRADUR® B4300 G4 FC UNCOLOURED POLYBUTYLENE TEREPHTHALATE

Revision date : 2012/01/31

Version: 1.0

Page: 4/6

(30465035/SDS_GEN_US/EN)

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:

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

9. Physical and Chemical Properties

Form:	pellets	
Odour:	odourless	
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.
Vapour pressure:		not applicable
Density:	1.3 - 1.8 g/cm3	(20 °C) (EN ISO 1183-1)
Relative density:		No data available.
Bulk density:	600 - 900 kg/m3	
Vapour density:		not applicable
Partitioning coefficient n-octanol/water (log Pow):		not applicable
Solubility in water:		insoluble

10. Stability and Reactivity

Conditions to avoid:

Temperature: > 290 degrees Celsius

Substances to avoid:

No substances known that should be avoided.

Decomposition products:

Hazardous decomposition products: carbon monoxide, tetrahydrofuran

Thermal decomposition:

> 290 °C

Thermal decomposition above the indicated temperature is possible.

11. Toxicological information

Carcinogenicity

Information on: Glass, oxide, chemicals

IARC (International Agency for Research on Cancer) has classified this substance as group 2B (The agent is possibly carcinogenic to humans).

Aspiration Hazard:

No aspiration hazard expected.



Safety Data Sheet

ULTRADUR® B4300 G4 FC UNCOLOURED POLYBUTYLENE TEREPHTHALATE

Revision date : 2012/01/31
Version: 1.0

Page: 5/6
(30465035/SDS_GEN_US/EN)

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

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. Incinerate in suitable incineration plant, observing local authority 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:

Chemical TSCA, US released / listed

EPCRA 311/312 (Hazard categories):

Not hazardous;

State regulations

State RTK

CAS Number

Chemical name



Safety Data Sheet

ULTRADUR® B4300 G4 FC UNCOLOURED POLYBUTYLENE TEREPHTHALATE

Revision date : 2012/01/31

Page: 6/6

Version: 1.0

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MA, NJ, PA

65997-17-3

Glass, oxide, chemicals

16. Other Information

Recommended use: Polymer for industrial processing only

Suitable for use in industrial sector: Polymers industry;

HMIS III rating

Health: 1 Flammability: 1 Physical hazard: 0

NFPA and HMIS use 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 extreme danger. Although similar, the two rating systems are intended for different purposes, and use different criteria. The NFPA system was developed to provide an on-the-spot alert to the hazards of a material, and their severity, to emergency responders. The HMIS system was designed to communicate workplace hazard information to employees who handle hazardous chemicals.

We support worldwide Responsible Care® initiatives. We value the health and safety of our employees, customers, suppliers and neighbors, and the protection of the environment. Our commitment to Responsible Care is integral to conducting our business and operating our facilities in a safe and environmentally responsible fashion, supporting our customers and suppliers in ensuring the safe and environmentally sound handling of our products, and minimizing the impact of our operations on society and the environment during production, storage, transport, use and disposal of our products.

MSDS Prepared by:

BASF NA Product Regulations

msds@basf.com

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