

Safety Data Sheet

ULTRADUR® S 4090 G4 BLACK 5110 POLYBUTYLENE TEREPHTHALATE

Revision date : 2011/04/20

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Version: 2.0

(30097369/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

Molecular formula: (C₁₂ H₁₂ O₄)_N
Synonyms: Poly(butylene terephthalate)

2. Hazards 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.

State of matter: solid
Colour: black
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:

Irritation is possible when the product comes in contact with the skin, respiratory tract or the eyes.

Sensitization:

No data available concerning sensitizing effects. provisional classification. The substance is inert.

Chronic toxicity:

Carcinogenicity: The substance is inert.



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Repeated dose toxicity: No adverse effects have been reported in the processing and use of the product. No known chronic effects. The substance is inert.

Reproductive toxicity: The substance is inert.

Genotoxicity: No data available concerning mutagenic effects. provisional classification. The substance is inert.

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.

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:

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

3. Composition / Information on Ingredients

<u>CAS Number</u>	<u>Content (W/W)</u>	<u>Chemical name</u>
30965-26-5	>= 0.0 - < 50.0 %	polybutylene terephthalate (PBT)
26062-94-2	>= 0.0 - < 50.0 %	polybutylene terephthalate (PBT)
65997-17-3	> 10.0 - < 30.0 %	Glass, oxide, chemicals
1333-86-4	< 1.0 %	carbon black

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:

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

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:

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

5. Fire-Fighting Measures

Flash point:

No data available.

Autoignition:

> 400 °C



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Self-ignition temperature: not self-igniting

Suitable extinguishing media:

water spray, dry powder, carbon dioxide, foam

Hazards during fire-fighting:

No particular hazards known.

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:

Reclaim for processing if possible. Sweep/shovel up. Place into suitable containers for reuse or disposal in a licensed facility.

Further information:

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

7. Handling and Storage

Handling

Protection against fire and explosion:

The product is capable of dust explosion. No explosion proofing necessary.

Storage

General advice:

Keep container tightly closed.

Storage stability:

Protect against moisture.

8. Exposure Controls and Personal Protection

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).

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	
Colour:	black	
pH value:		not applicable
softening point:	215 - 225 °C	
Density:	1.3 - 1.8 g/cm3	(20 °C) (EN ISO 1183-1)
Relative density:		No data available.
Bulk density:	500 - 800 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:

Avoid prolonged exposure to extreme heat.

Hazardous reactions:

The product is chemically stable.
No hazardous reactions known.

Decomposition products:

carbon monoxide, carbon dioxide

Thermal decomposition:

298 - 400 °C

Corrosion to metals:

No corrosive effect on metal.

11. Toxicological information

Acute toxicity

Information on: carbon black

Assessment of acute toxicity:

Virtually nontoxic after a single ingestion.

Carcinogenicity

Information on: carbon black

IARC (International Agency for Research on Cancer) has classified this substance as group 2B (The agent is possibly carcinogenic to humans). In long-term animal studies in which the substance was given by inhalation in high concentrations, a carcinogenic effect was observed. A clear indication of an increased risk of cancer in



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humans has so far not been shown. No carcinogenic potential can be deduced from other studies with rats and mice.

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.

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. Due to the consistency of the product, dispersion into the environment is impossible. Therefore no negative effects on the environment may be anticipated based on the present state of knowledge.

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.

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

MA, NJ, PA

CAS Number

65997-17-3

Chemical name

Glass, oxide, chemicals

CA Prop. 65:

THIS PRODUCT CONTAINS A CHEMICAL(S) KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER.

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

MSDS Prepared on: 2011/04/20

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