1. Identification

Product identifier used on the label

ULTRADUR® B4330G6 HR BLACK 15045 POLYBUTYLENE TEREPHTHALATE

Recommended use of the chemical and restriction on use

Recommended use*: Polymer
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

Synonyms: polybutylene terephthalate

2. Hazards Identification


Classification of the product

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

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.

3. Composition / Information on Ingredients


Glass, oxide, chemicals
   CAS Number: 65997-17-3
   Content (W/W): >= 20.0 - < 40.0%
   Synonym: Glass, oxide

bisphenol A-epichlorohydrin resin
   CAS Number: 25068-38-6
   Content (W/W): >= 0.3 - < 1.0%
   Synonym: 4,4’-(1-Methylethylidene)bisphenol polymer with (chloromethyl)oxirane

carbon black
   CAS Number: 1333-86-4
   Content (W/W): >= 0.1 - < 1.0%
   Synonym: C.I. 77266

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:
Wash affected areas thoroughly with soap and water. If irritation develops, seek medical attention. 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 200-300 ml of water. Ingestion is not likely in the available physical form. If ingested, seek medical attention. Do not induce vomiting. Immediate medical attention required.

Most important symptoms and effects, both acute and delayed
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.

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**
- 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.
- Reclaim for processing if possible. Place into suitable containers for reuse or disposal in a licensed facility.
7. Handling and Storage

Precautions for safe handling
Handle in accordance with good industrial hygiene and safety practice. Avoid inhalation of
dusts/mists/vapours. Provide good ventilation of working area (local exhaust ventilation if necessary).

Protection against fire and explosion:
The product is capable of dust explosion. Take precautionary measures against static discharges.

Conditions for safe storage, including any incompatibilities

Suitable materials for containers: Low density polyethylene (LDPE), High density polyethylene
(HDPE), Aluminium, Carbon steel (Iron)

Further information on storage conditions: Keep container tightly closed and dry; store in a cool
place. Avoid dust formation, product dust can form an explosive mixture with air.

Storage stability:
Protect against moisture.

8. Exposure Controls/Personal Protection

Advice on system design:
Whenever possible, engineering controls should be used to minimize the need for personal
protective equipment.

Personal protective equipment

Respiratory protection:
Wear respiratory protection if ventilation is inadequate. Wear a NIOSH-certified (or equivalent)
organic vapour/particulate respirator.

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:
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: black
pH value: not applicable
melting range: 220 - 230 °C (DIN 53736)
Freezing point: not applicable
Boiling range: The substance / product decomposes therefore not determined.
Sublimation point: No applicable information available.
Flash point: not applicable
Flammability: not self-igniting (derived from flash point)
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: 1.3 - 1.8 g/cm³ (20 °C) (EN ISO 1183-1)
Relative density: Study does not need to be conducted.
Bulk density: 600 - 900 kg/m³ (DIN 53466)
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
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.

Oxidizing properties:
not fire-propagating

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:
> 300 °C
May decompose if overheated and/or subjected to prolonged heating.

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.

**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: carbon black
Assessment of carcinogenicity: 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 humans has so far not been shown. No carcinogenic potential can be deduced from other studies with rats and mice.

Reproductive toxicity
Assessment of reproduction 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.

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.

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 SDS section 11 - Toxicological information.

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.

Persistance and degradability

Assessment biodegradation and elimination (H2O)
Experience shows this product to be inert and non-degradable.

Bioaccumulative potential

Bioaccumulation potential
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 / listed

**EPCRA 311/312 (Hazard categories):** Refer to SDS section 2 for GHS hazard classes applicable for this product.

**State regulations**

<table>
<thead>
<tr>
<th>State RTK</th>
<th>CAS Number</th>
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</tbody>
</table>

**Safe Drinking Water & Toxic Enforcement Act, CA Prop. 65:**

**WARNING:** This product can expose you to chemicals including GLASS WOOL FIBERS (INHALABLE AND BIOPERSISTENT), which is known to the State of California to cause cancer. For more information, go to www.P65Warnings.ca.gov.
NFPA Hazard codes:
Health: 1  Fire: 1  Reactivity: 0  Special:

HMIS III rating
Health: 1  Flammability: 1  Physical hazard: 0

16. Other Information

SDS Prepared by:
BASF NA Product Regulations
SDS Prepared on: 2020/01/31

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