1. Substance/preparation and company identification

Company
BASF CORPORATION
100 Campus Drive
Florham Park, NJ 07932

24 Hour Emergency Response Information
CHEMTREC: (800) 424-9300
BASF HOTLINE: (800) 832-HELP

Synonyms:
Polybutylene terephthalate

2. Composition/information on ingredients

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Content (W/W)</th>
<th>Chemical name</th>
<th>Chemical name</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt;= 10.0 - &lt;= 20.0 %</td>
<td>Proprietary</td>
<td>Antimony compounds</td>
<td></td>
</tr>
<tr>
<td>&gt;= 1.0 - &lt;= 6.0 %</td>
<td>Carbon black</td>
<td>Particles, not otherwise specified, respirable</td>
<td></td>
</tr>
<tr>
<td>&gt;= 0.1 - &lt;= 1.0 %</td>
<td></td>
<td>polybutylene terephthalate (PBT)</td>
<td></td>
</tr>
<tr>
<td>&gt;= 45.0 %</td>
<td></td>
<td>Glass, oxide, chemicals</td>
<td></td>
</tr>
<tr>
<td>&gt;= 15.0 - &lt;= 30.0 %</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

3. Hazard 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 protective clothing.
Eye wash fountains and safety showers must be easily accessible.

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.

Repeated dose toxicity:

Information on: Carbon black
Prolonged inhalation exposures may produce cough, phlegm, tiredness, chest pain and headache. Dermal, inhalation or mucosal exposures may cause irritation. Chronic exposures to carbon black have been known to produce pneumoconiosis (chronic inflammatory and fibrotic lung disease) in workers. IARC has classified carbon black in Group 2B (sufficient evidence of carcinogenicity in animals).

Information on: Fiberglass
This product contains glass fibers which are compounded into the polymer matrix and thus are not expected to present the same hazards as fiberglass wool.

Animal implantation studies have indicated that fiberglass wool is an animal carcinogen. A small study of Canadian glass wool workers reported a statistically significant increase in deaths due to lung cancer; however, animal inhalation studies and several large-scale studies of U.S. and European fiberglass wool workers have shown no statistically significant increases in lung cancer. The International Agency for Research on Cancer (IARC) has classified this material in Category 2B.
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.

**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.

5. Fire-fighting measures

**Autoignition:**
> 350 °C (ASTM D1929)

**Suitable extinguishing media:**
water, foam, dry extinguishing media

**Hazards during fire-fighting:**
carbon monoxide, tetrahydrofuran, hydrogen halides, brominated dibenzodioxins 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.

**Protective equipment for fire-fighting:**
Wear a self-contained breathing apparatus.

**Further information:**
Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.
6. Accidental release measures

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

General advice:
Avoid dust formation. Exhaust ventilation at processing machines is required during thermal processing and/or machining. Cleaning of product-contaminated machine parts with open flames should be avoided. If task are carried out with open flames, ventilation measures are mandatory.

Protection against fire and explosion:
Take precautionary measures against static discharges.

Storage

General advice:
Keep container tightly closed. Avoid deposition of dust.

Storage stability:
Protect against moisture.

8. Exposure controls and personal protection

Components with workplace control parameters

<table>
<thead>
<tr>
<th>Component Description</th>
<th>OSHA</th>
<th>PEL</th>
<th>ACGIH</th>
<th>TWA value</th>
</tr>
</thead>
<tbody>
<tr>
<td>carbon black</td>
<td></td>
<td>3.5 mg/m³</td>
<td></td>
<td>3.5 mg/m³</td>
</tr>
<tr>
<td>Particles, not otherwise specified</td>
<td></td>
<td>5 mg/m³</td>
<td>Respirable fraction</td>
<td>Respirable fraction</td>
</tr>
<tr>
<td>specified, respirable</td>
<td></td>
<td></td>
<td>3 mg/m³</td>
<td></td>
</tr>
</tbody>
</table>

Personal protective equipment

Respiratory protection:
Breathing protection if breathable aerosols/dust are formed. Particle filter EN 143 Type P1, low efficiency, (solid particles of inert substances).

9. Physical and chemical properties

Form: granules
Odour: odourless
Colour: various, depending on the colourant
Melting range: 220 - 230 °C (DIN 53736)
10. Stability and reactivity

Decomposition products:
Hazardous decomposition products: carbon monoxide, tetrahydrofuran, Danger by forming of toxic pyrolytic products.

Thermal decomposition:
> 290 °C
To avoid thermal decomposition, do not overheat.

11. Toxicological information

Chronic toxicity

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

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

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:
Check for possible recycling.
Must be dumped or incinerated in accordance with local regulations.

Contaminated packaging:
Packs must be completely emptied. Completely emptied packagings can be given for recycling.
14. Transport information

Reference Bill of Lading

15. Regulatory information

Federal Regulations

Registration status:
TSCA, US released / listed

State regulations

State RTK

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Chemical name</th>
<th>State RTK</th>
</tr>
</thead>
<tbody>
<tr>
<td>1333-86-4</td>
<td>carbon black</td>
<td>MA, NJ, PA</td>
</tr>
</tbody>
</table>

16. Other information

Local contact information
Tech Desk
1-800-8324

ULTRADUR® B4406G4 BLACK Q113 07110 POLYBUTYLENE TEREPTHALATE is a registered trademark of BASF Corporation or BASF AG

IMPORTANT: WHILE THE DESCRIPTIONS, DESIGNS, DATA AND INFORMATION CONTAINED HEREIN ARE PRESENTED IN GOOD FAITH AND BELIEVED TO BE ACCURATE, IT IS PROVIDED FOR YOUR GUIDANCE ONLY. BECAUSE MANY FACTORS MAY AFFECT PROCESSING OR APPLICATION/USE, WE RECOMMEND THAT YOU MAKE TESTS TO DETERMINE THE SUITABILITY OF A PRODUCT FOR YOUR PARTICULAR PURPOSE PRIOR TO USE. NO WARRANTIES OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE MADE REGARDING PRODUCTS DESCRIBED OR DESIGNS, DATA OR INFORMATION SET FORTH, OR THAT THE PRODUCTS, DESIGNS, DATA OR INFORMATION MAY BE USED WITHOUT INFRINGING THE INTELLECTUAL PROPERTY RIGHTS OF OTHERS. IN NO CASE SHALL THE DESCRIPTIONS, INFORMATION, DATA OR DESIGNS PROVIDED BE CONSIDERED A PART OF OUR TERMS AND CONDITIONS OF SALE. FURTHER, YOU EXPRESSLY UNDERSTAND AND AGREE THAT THE DESCRIPTIONS, DESIGNS, DATA, AND INFORMATION FURNISHED BY BASF HEREUNDER ARE GIVEN GRATIS AND BASF ASSUMES NO OBLIGATION OR LIABILITY FOR THE DESCRIPTION, DESIGNS, DATA AND INFORMATION GIVEN OR RESULTS OBTAINED, ALL SUCH BEING GIVEN AND ACCEPTED AT YOUR RISK.

END OF DATA SHEET