

# Safety data sheet

Page: 1/10

BASF Safety data sheet

Date / Revised: 24.01.2025

Version: 6.0

Product: **ULTRADUR® B 4520 BLACK 00110 POLYBUTYLENE TEREPHTHALATE**

(30036433/SDS\_GEN\_TH/EN)

Date of print: 11.10.2025

## 1. Substance/preparation and manufacturer/supplier identification

### Product name:

**ULTRADUR® B 4520 BLACK 00110 POLYBUTYLENE  
TEREPHTHALATE**

Use: Polymer

Recommended use: Polymer, for industrial processing only

### Manufacturer/supplier:

BASF (Thai) Limited

23rd Floor, Emporium Tower, 622, Sukhumvit 24 Rd.,

Klongton, Klongtoey, Bangkok 10110, THAILAND

Telephone: +66 2624-1999

Telefax number: +66 2664-9254

E-mail address: Thailand-SDS-info@basf.com

### Emergency information:

International emergency number:

Telephone: +49 180 2273-112

## 2. Hazard identification

### Classification according to UN GHS 2009

Classification of the substance and mixture:

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

Label elements and precautionary statement:

The product does not require a hazard warning label in accordance with GHS criteria.

Other hazards which do not result in classification:

BASF Safety data sheet

Date / Revised: 24.01.2025

Version: 6.0

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

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### 3. Composition/information on ingredients

#### Chemical nature

Substance nature: mixture

Preparation based on:

polybutylene terephthalate (PBT)

additives

No particular hazards known.

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### 4. First-Aid Measures

General advice:

Avoid contact with the skin, eyes and clothing.

If inhaled:

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

On skin contact:

Burns caused by molten material require hospital treatment.

On contact with 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.

On ingestion:

Rinse mouth and then drink 200-300 ml of water. If difficulties occur: Seek medical attention.

Note to physician:

Symptoms: (Further) symptoms and / or effects are not known so far

Hazards: No hazard is expected under intended use and appropriate handling.

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

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### 5. Fire-Fighting Measures

Suitable extinguishing media:

water spray, foam, dry powder

Unsuitable extinguishing media for safety reasons:

water jet

Specific hazards:

At temperatures of > 290 °C can be emitted: carbon monoxide, tetrahydrofuran

Under special fire conditions traces of other toxic substances are possible. Formation of further decomposition and oxidation products depends upon the fire conditions.

BASF Safety data sheet

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Special protective equipment:  
Wear a self-contained breathing apparatus.

Further information:  
Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

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## 6. Accidental Release Measures

Personal precautions:  
No special precautions necessary.

Environmental precautions:  
No special precautions necessary.

Methods for cleaning up or taking up:  
For small amounts: Pick up with suitable appliance and dispose of.  
For large amounts: Pick up with suitable appliance and dispose of.  
For residues: Sweep/shovel up.  
Dispose of absorbed material in accordance with regulations.

Additional information: High risk of slipping due to leakage/spillage of product.

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## 7. Handling and Storage

### Handling

Avoid inhalation of dusts/mists/vapours. Exhaust ventilation at processing machines is required during thermal processing and/or machining.

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

### Storage

Segregate from foods and animal feeds.

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.

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## 8. Exposure controls and personal protection

Components with occupational exposure limits

Given suitable ventilation, it can be assumed that the threshold limits will not be reached.

#### Personal protective equipment

##### Respiratory protection:

Breathing protection if breathable aerosols/dust are formed. Wear respiratory protection if ventilation is inadequate. (Particle filter EN 143 P2 or FFP2)

##### Hand protection:

Use additional heat protection gloves when handling hot molten masses (EN 407), e.g. of textile or leather.

##### Eye protection:

Safety glasses with side-shields (frame goggles) (e.g. EN 166)

##### Body protection:

Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust).

##### General safety and hygiene measures:

No special precautions necessary. When using, do not eat, drink or smoke. Hands and/or face should be washed before breaks and at the end of the shift. After use of gloves apply skin-cleaning agents and skin cosmetics.

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## 9. Physical and Chemical Properties

Form: granules  
Colour: black  
Odour: odourless  
Odour threshold: not applicable

pH value:  
not applicable

melting range: 220 - 230 °C (DIN 53736)  
(1,013 hPa)

Boiling range:  
The substance / product  
decomposes therefore not  
determined.

Sublimation point:  
No applicable information available.

Flash point:  
not applicable

Evaporation rate:  
The product is a non-volatile solid.

Flammability (solid/gas): not self-igniting (derived from flash point)

BASF Safety data sheet

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Lower explosion limit:	For solids not relevant for classification and labelling.	
Upper explosion limit:	For solids not relevant for classification and labelling.	
Ignition temperature:	350 °C	(ASTM D1929)
Thermal decomposition:	> 290 °C To avoid thermal decomposition, do not overheat.	(TGA)
Self ignition:	not self-igniting	Test type: Spontaneous self-ignition at room-temperature.
Self heating ability:	It is not a substance capable of spontaneous heating according to UN transport regulations class 4.2.	(VDI 2263, sheet 1, 1.4.1 (May 1990))
Explosion hazard:	not explosive	
Fire promoting properties:	not fire-propagating	
Vapour pressure:	not applicable	
Density:	1.2 - 1.35 g/cm <sup>3</sup> (20 °C, 1,013 hPa)	(EN ISO 1183-1)
Relative density:	Study does not need to be conducted.	
Bulk density:	600 - 900 kg/m <sup>3</sup> (20 °C, 1,013 hPa)	(DIN 53466)
Relative vapour density (air):	not applicable	
Solubility in water:	insoluble (20 °C, 1,013 hPa)	
Partitioning coefficient n-octanol/water (log Pow):	not applicable	
Viscosity, dynamic:	not applicable, the product is a solid	
Viscosity, kinematic:	not applicable, the product is a solid	

Particle characteristics

Particle size distribution: spheroidal -

Specific Surface Area: 0.0 m<sup>2</sup>/g

(MSSA, ISO 9227)

**10. Stability and Reactivity**

BASF Safety data sheet

Date / Revised: 24.01.2025

Version: 6.0

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Conditions to avoid:

Temperature: &gt; 290 °C

See SDS section 7 - Handling and storage.

Thermal decomposition:

&gt; 290 °C (TGA)

To avoid thermal decomposition, do not overheat.

Substances to avoid:

No substances known that should be avoided.

Corrosion to metals: No corrosive effect on metal.

Hazardous reactions:

No hazardous reactions known.

The product is chemically stable.

Possible decomposition products:

carbon monoxide, terephthalic acid, carbon dioxide, water, tetrahydrofuran

Gaseous products of degradation can be given off if the product is greatly overheated.

Chemical stability:

The product is stable if stored and handled as prescribed/indicated.

The product is chemically stable.

Reactivity:

No hazardous reactions if stored and handled as prescribed/indicated.

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## 11. Toxicological Information

### Routes of exposure

#### Assessment of acute toxicity

Contact with molten product may cause thermal burns.

#### Symptoms

(Further) symptoms and / or effects are not known so far

#### Irritation

Assessment of irritating effects:

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

Experimental/calculated data:

Serious eye damage/irritation: May cause mechanical irritation.

#### Respiratory/Skin 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.

#### Germ cell mutagenicity

**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.

**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.

**Developmental toxicity****Assessment of teratogenicity:**

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

**Specific target organ toxicity (single exposure)**

not applicable

**Repeated dose toxicity and Specific target organ toxicity (repeated exposure)****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.

**Aspiration hazard**

No aspiration hazard expected.

**Other relevant toxicity 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.

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**12. Ecological Information****Ecotoxicity****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.

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### Mobility

Assessment transport between environmental compartments:  
Adsorption to solid soil phase is not expected.

### 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.

Elimination information:  
Poorly biodegradable.

Assessment of stability in water:  
According to structural properties, hydrolysis is not expected/probable.

### Bioaccumulation potential

Assessment bioaccumulation potential:  
Does not significantly accumulate in organisms.

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

### Other adverse effects

Adsorbable organically-bound halogen (AOX):  
This product contains no organically-bound halogen.

### Additional information

Other ecotoxicological advice:  
The product is a polymeric compound.

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## 13. Disposal Considerations

Check for possible recycling.  
Incinerate in suitable incineration plant, observing local authority regulations.

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

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## 14. Transport Information

### Domestic transport:

UN number or ID number	Not classified as a dangerous good under transport regulations
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable



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Environmental hazards:	Not applicable
Special precautions for user	None known

**Sea transport****IMDG**

	Not classified as a dangerous good under transport regulations
UN number or ID number:	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
	Marine pollutant: no
Special precautions for user	None known

**Air transport****IATA/ICAO**

	Not classified as a dangerous good under transport regulations
UN number or ID number	Not applicable
Proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
Special precautions for user	None known

**Maritime transport in bulk according to IMO instruments**

Maritime transport in bulk is not intended.

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**15. Regulatory Information****Other regulations**

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**16. Other Information**

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Vertical lines in the left hand margin indicate an amendment from the previous version.

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