

Safety data sheet

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BASF Safety data sheet

Date / Revised: 28.01.2025 Version: 13.1

Product: ULTRADUR® B 4406 UNCOLORED POLYBUTYLENE TEREPHTHALATE

(30036534/SDS_GEN_SG/EN)

Date of print: 22.10.2025

1. Substance/preparation and manufacturer/supplier identification

Product name:

ULTRADUR® B 4406 UNCOLORED POLYBUTYLENE TEREPHTHALATE

Use: Polymer

Recommended use: Polymer, for industrial processing only

Manufacturer/supplier:

BASF South East Asia Pte Ltd.
128 Beach Road #18-01
Guoco Midtown, 189773, Singapore

Telephone: +65 8322 4420
Telefax number: +65 6 334-0330
E-mail address: benny.zou@basf.com

Emergency information:

Singapore Emergency Toll-Free Number:

Telephone: 1800-723-1361 International emergency number: Telephone: +49 180 2273-112

2. Hazard identification

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.

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Other hazards which do not result in classification:

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

3. Composition/information on ingredients

Chemical nature

Substance nature: mixture

Compound based on:

polybutylene terephthalate (PBT), Polyethyleneterephthalate (PET)

additives, flame retardant, diantimony trioxide

Hazardous ingredients

diantimony trioxide

Content (W/W): >= 1 % - <= 6 % Carc.: Cat. 2 (by inhalation) STOT RE (Lung): Cat. 2 Aquatic Acute: Cat. 3

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.

5. Fire-Fighting Measures

Suitable extinguishing media: water spray, foam, dry powder

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Unsuitable extinguishing media for safety reasons: water jet

Specific hazards:

At temperatures of > 290 °C can be emitted: carbon monoxide, tetrahydrofuran, hydrogen halides, brominated dibenzodioxins

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

Special protective equipment:

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

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. Sweep/shovel up. Avoid raising dust.

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

7. Handling and Storage

Handling

Avoid dust formation.

Exhaust ventilation at processing machines is required during thermal processing and/or machining. However, if dust formulation occurs at processing / finishing processing steps like regranulation, mechanical machining (for example drilling, grinding etc.) provide suitable exhaust ventilation.

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

Segregate from foods and animal feeds.

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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 and personal protection

Components with occupational exposure limits

diantimony trioxide, 1309-64-4;

TWA value 0.5 mg/m3 (OEL (SG)) Measured as: antimony (Sb)

TWA value 0.02 mg/m3 (ACGIHTLV), Inhalable fraction

The surveillance of the workplace by exposure measurements may be necessary, in order to prove the efficiency of safety measures, for example ventilation or the need of respiratory protection. Since this requires a specific competency, only accredited laboratories should be contracted. Regarding suitable methods to assess inhalation exposure, the European Standards EN 482, 689 and 14042 are to be considered. In addition, the TRGS 402 has to be observed in Germany.

Personal protective equipment

Respiratory protection:

Breathing protection if breathable aerosols/dust are formed. Wear respiratory protection if ventilation is inadequate. (Particle filter EN 143 P3)

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:

The product contains dangerous ingredients (see paragraph 2, SDS), which are embedded in plastic and are only set free when milled. Avoid inhalation of dusts/mists/vapours. When using, do not eat, drink or smoke. Keep separated from food stuffs and feed stocks. 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.

9. Physical and Chemical Properties

Form: granules

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Colour: various, depending on the colourant

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)

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 (TGA)

To avoid thermal decomposition, do

not overheat.

Self ignition: not self-igniting Test type: Spontaneous self-

ignition at room-temperature.

(VDI 2263, sheet 1, 1.4.1 (May

Self heating ability: It is not a substance capable of

> spontaneous heating according to UN transport regulations class 4.2.

1990))

SADT: No data available. Explosion hazard: not explosive

Fire promoting properties: not fire-propagating

Vapour pressure:

not applicable

Density: 1.40 - 1.50 g/cm3 (EN ISO 1183-1)

(20 °C, 1,013 hPa)

Relative density:

Study does not need to be

conducted.

600 - 900 kg/m3 (DIN 53466) Bulk density:

(20 °C, 1,013 hPa)

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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 m²/g

Particle Shape:

No data available.

Dustiness:

No data available.

10. Stability and Reactivity

Conditions to avoid: Temperature: > 290 °C

See SDS section 7 - Handling and storage.

Thermal decomposition: > 290 °C (TGA)

To avoid thermal decomposition, do not overheat.

(MSSA, ISO 9227)

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.

Hazardous decomposition products:

carbon monoxide, tetrahydrofuran, carbon dioxide, terephthalic acid, water Danger by forming of toxic pyrolytic products.

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

Acute oral toxicity

Experimental/calculated data: (oral):No data available.

Acute inhalation toxicity

(by inhalation): No data available.

Acute dermal toxicity

(dermal):No data available.

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:

Skin corrosion/irritation:No data available.

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.

Experimental/calculated data:

No data available.

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. The ingredient of concern is tightly bound within the product (practically not bioavailable).

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There is no formation of respirable dust during intended uses. However, if dust formation occurs at processing/finishing processing steps like regranulation, mechanical machining (for example drilling, grinding etc.), occupational protection regulations have to be considered. Release and inhalative resorption from respirable dust (fine dust), however, cannot be excluded. If dust is formed, the substances can be released, which caused cancer by inhalation in animal studies.

Experimental/calculated data:

No data available.

Information on: diantimony trioxide Assessment of carcinogenicity:

Indication of possible carcinogenic effect in animal tests. IARC (International Agency for Research on Cancer) has classified this substance as group 2B (The agent is possibly carcinogenic to humans).

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.

Experimental/calculated data:

No data available.

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.

Experimental/calculated data:

No data available.

Aspiration hazard

May be harmful if swallowed and enters airways.

Other relevant toxicity information

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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

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.

Toxicity to fish:

No data available.

Aquatic invertebrates:

No data available.

Aquatic plants:

No data available.

Microorganisms/Effect on activated sludge:

No data available.

Chronic toxicity to fish:

No data available.

Chronic toxicity to aquatic invertebrates:

No data available.

Mobility

Assessment transport between environmental compartments:

Adsorption to solid soil phase is not expected.

Persistence and degradability

Assessment biodegradation and elimination (H2O):

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.

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Other adverse effects

Adsorbable organically-bound halogen (AOX):

The product contains according to the formulation, organically bound halogen. It can increase the AOX-value in the water purification plants overflow or if it reaches waters.

Additional information

Other ecotoxicological advice:

The product is a polymeric compound.

13. Disposal Considerations

Contaminated packaging:

Packs must be completely emptied.

Completely emptied packagings can be given for recycling.

14. Transport Information

Domestic transport:

Not classified as a dangerous good under transport regulations

UN number or ID number
UN proper shipping name:
Transport hazard class(es):
Packing group:
Environmental hazards:
Special precautions for

Not applicable
Not applicable
Not applicable
Not applicable
Not applicable
Not applicable

user

Sea transport

IMDG

Not classified as a dangerous good under transport regulations

UN number or ID number:
UN proper shipping name:
Transport hazard class(es):
Packing group:
Environmental hazards:
Not applicable
Not applicable
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

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Packing group:
Environmental hazards:
Special precautions for
Not applicable
Not applicable
None known

user

Maritime transport in bulk according to IMO instruments

Maritime transport in bulk is not intended.

15. Regulatory Information

Other regulations

16. Other Information

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

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. This safety data sheet is neither a Certificate of Analysis (CoA) nor technical data sheet and shall not be mistaken for a specification agreement. Identified uses in this safety data sheet do neither represent an agreement on the corresponding contractual quality of the substance/mixture nor a contractually designated use. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.