

# Safety data sheet

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BASF Safety data sheet according to the United Nations' Globally Harmonized System (UN GHS)

Date / Revised: 13.10.2025 Version: 5.0

Product: ULTRADUR® S 4090 G4 LS BLACK 15077 POLYBUTYLENE TEREPHTHALATE

(ID no. 30036591/SDS\_GEN\_00/EN)

Date of print 13.10.2025

# 1. Identification

**Product identifier** 

# ULTRADUR® S 4090 G4 LS BLACK 15077 POLYBUTYLENE TEREPHTHALATE

# Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses: Polymer

Recommended use: Polymer, for industrial processing only

# Details of the supplier of the safety data sheet

Company: BASF SE 67056 Ludwigshafen GERMANY

Telephone: +49 621 60-0

E-mail address: global.info@basf.com

# **Emergency telephone number**

International emergency number: Telephone: +49 180 2273-112

# 2. Hazards Identification

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#### Classification of the substance or mixture

# According to UN GHS criteria

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

#### Label elements

#### Globally Harmonized System (GHS)

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

#### Other hazards

# According to UN GHS criteria

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

# 3. Composition/Information on Ingredients

#### **Substances**

Not applicable

### **Mixtures**

# Chemical nature

Preparation based on: polybutylene terephthalate (PBT), styrene-acrylonitrile-copolymer, Butyl acrylate-styrene-acrylonitrile copolymer, Polyethyleneterephthalate (PET)

additives, fillers

# 4. First-Aid Measures

# **Description of first aid measures**

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:

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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.

# Most important symptoms and effects, both acute and delayed

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

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

# Indication of any immediate medical attention and special treatment needed

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

# 5. Fire-Fighting Measures

# **Extinguishing media**

Suitable extinguishing media: water spray, dry powder, foam

Unsuitable extinguishing media for safety reasons: water jet

# Special hazards arising from the substance or mixture

At temperatures of > 300 °C can be emitted: Carbon monoxide, Tetrahydrofuran, Acrylonitrile, Styrene, 2-Phenylpropene, Butyl acrylate

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

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

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

# Personal precautions, protective equipment and emergency procedures

No special precautions necessary.

# **Environmental precautions**

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Prevent releases of this product into the environment. Comprehensive instructions explaining how to prevent releases of plastics pellets, flakes, and powders to the environment during both use and disposal are provided by the industry program 'Operation Clean Sweep' (OCS).

# 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.

For residues: Sweep/shovel up.

Dispose of absorbed material in accordance with regulations.

# 7. Handling and Storage

# Precautions for safe handling

Avoid inhalation of dusts/mists/vapours. Provide good ventilation of working area (local exhaust ventilation if necessary).

Protection against fire and explosion:

Take precautionary measures against static discharges.

# Conditions for safe storage, including any incompatibilities

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.

# Specific end use(s)

For the relevant identified use(s) listed in Section 1 the advice mentioned in this section 7 is to be observed.

# 8. Exposure Controls/Personal Protection

# **Control parameters**

Components with occupational exposure limits

1333-86-4: Carbon black

14807-96-6: Talc (Mg3H2(SiO3)4) 65997-17-3: Glass, oxide, chemicals

25038-59-9: Polyethyleneterephthalate (PET)

26062-94-2: 1,4-Benzenedicarboxylic acid, polymer with 1,4-butanediol

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# **Exposure controls**

#### 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

Avoid inhalation of vapour. 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.

# 9. Physical and Chemical Properties

# 9.1. Information on basic physical and chemical properties

State of matter: solid
Form: granules
Colour: black
Odour: odourless

Odour threshold:

not applicable

melting range: 220 - 225 °C (DIN EN ISO 3146)

(1.013 hPa)

Boiling range:

The substance / product decomposes therefore not

determined.

Sublimation point:

No applicable information available.

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.

Flash point:

not applicable

Auto-ignition temperature: > 400 °C (ASTM D1929)

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Thermal decomposition: > 300 °C (TGA)

To avoid thermal decomposition, do not overheat.

pH value:

not applicable

Viscosity, kinematic:

not applicable, the product is a solid

Viscosity, dynamic:

not applicable, the product is a solid

insoluble Solubility in water:

(OECD Guideline 105)

(20 °C, 1.013 hPa)

Partitioning coefficient n-octanol/water (log Kow):

not applicable

Vapour pressure:

not applicable

Relative density:

Study does not need to be

conducted.

Density: 1,30 - 1,50 g/cm3

(EN ISO 1183-1) (20 °C, 1.013 hPa)

Relative vapour density (air):

not applicable

Particle characteristics

Particle size distribution: spheroidal -

Specific Surface Area: (MSSA, ISO 9227)  $0.0 \text{ m}^2/\text{g}$ 

#### 9.2. Other information

# Information with regard to physical hazard classes

**Explosives** 

Explosion hazard: not explosive

Oxidizing properties

Fire promoting properties: not fire-propagating

Pyrophoric properties

Self-ignition temperature: Test type: Spontaneous self-

ignition at room-temperature.

not self-igniting

Self-heating substances and mixtures

Self heating ability: It is not a substance capable of (VDI 2263, sheet 1, 1.4.1 (May

> spontaneous heating according to 1990))

UN transport regulations class 4.2.

Corrosion to metals

No corrosive effect on metal.

Other safety characteristics

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

(20 °C, 1.013 hPa)

Evaporation rate:

The product is a non-volatile solid.

# 10. Stability and Reactivity

# Reactivity

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

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Corrosion to metals: No corrosive effect on metal.

# **Chemical stability**

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

The product is chemically stable.

# Possibility of hazardous reactions

No hazardous reactions known.

The product is chemically stable.

# **Conditions to avoid**

Temperature: > 300 °C

See SDS section 7 - Handling and storage.

# Incompatible materials

Substances to avoid:

No substances known that should be avoided.

# **Hazardous decomposition products**

Possible decomposition products:

Carbon monoxide, Tetrahydrofuran, Acrylonitrile, Styrene, 2-Phenylpropene, Water, Butyl acrylate, Carbon dioxide

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

# 11. Toxicological Information

# Information on toxicological effects

# Acute toxicity

Assessment of acute toxicity:

Contact with molten product may cause thermal burns.

# **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.

Serious eye damage/irritation: May cause mechanical irritation.

#### Respiratory/Skin sensitization

Assessment of sensitization:

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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.

# 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)

# Assessment of STOT single:

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.

# 12. Ecological Information

# **Toxicity**

Assessment of aquatic toxicity:

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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.

# Persistence and degradability

Assessment biodegradation and elimination (H2O):

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

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.

# Bioaccumulative 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.

# Mobility in soil

Assessment transport between environmental compartments:

Adsorption in soil: Adsorption to solid soil phase is not expected.

#### Results of PBT and vPvB assessment

According to Annex XIII of Regulation (EC) No.1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH): The product does not fulfill the criteria for PBT (Persistent/bioaccumulative/toxic) and vPvB (very persistent/very bioaccumulative).

#### Other adverse effects

The product does not contain substances that are listed in Regulation (EU) 2024/590 on substances that deplete the ozone layer.

# **Additional information**

Adsorbable organically-bound halogen (AOX):

This product contains no organically-bound halogen.

Other ecotoxicological advice:

The product is a polymeric compound.

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# 13. Disposal Considerations

#### Waste treatment methods

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.

# 14. Transport Information

#### **Land transport**

**ADR** 

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 Not applicable Packing group: Environmental hazards: Not applicable

Special precautions for

user

None known

**RID** 

Not classified as a dangerous good under transport regulations

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

Special precautions for

user

Not applicable None known

# **Inland waterway transport**

ADN

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

Special precautions for

user:

None known

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Transport in inland waterway vessel

Not evaluated

# 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:
Special precautions for

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

user

# Air transport

IATA/ICAO

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

# Maritime transport in bulk according to IMO instruments

Maritime transport in bulk is not intended.

# 15. Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture

Not applicable

#### 16. Other Information

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.

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