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## 1. Identification

Product identifier used on the label

# ULTRADUR® S 4090 G4 LS BLACK 15077 POLYBUTYLENE TEREPHTHALATE

### Recommended use of the chemical and restriction on use

Recommended use\*: Polymer; for industrial processing only Suitable for use in industrial sector: Polymers industry

## 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

Chemical family: Polymer

Synonyms: polybutylene terephthalate

### 2. Hazards Identification

## According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

### Classification of the product

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

<sup>\*</sup> 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.

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#### 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

#### According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

<b>CAS Number</b>	Weight %	Chemical name
65997-17-3	>= 20.0 - < 25.0%	Glass, oxide, chemicals
25038-59-9	>= 7.0 - < 15.0%	Polyethyleneterephthalate (PET)
1333-86-4	>= 0.15 - < 0.2%	carbon black

## 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:

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 plenty of water. Ingestion is not likely in the available physical form. If ingested, seek medical attention. Do not induce vomiting.

### Most important symptoms and effects, both acute and delayed

Symptoms: No significant reaction of the human body to the product known. Hazards: No hazard is expected under intended use and appropriate handling.

### Indication of any immediate medical attention and special treatment needed

Note to physician

Treatment: Treat symptomatically.

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## 5. Fire-Fighting Measures

## **Extinguishing media**

Suitable extinguishing media: water spray, dry powder, foam

## Special hazards arising from the substance or mixture

Hazards during fire-fighting:

carbon monoxide, tetrahydrofuran, acrylonitrile, Styrene, alpha-Methylstyrene, n-butyl acrylate, can be emitted at > 300 °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**

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.

## 7. Handling and Storage

#### Precautions for safe 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.

## Conditions for safe storage, including any incompatibilities

The product in undamaged packing need not be stored separately.

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

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Further information on storage conditions: Keep container tightly closed. Avoid deposition of dust. Protect against moisture.

Storage stability:

Protect against moisture.

## 8. Exposure Controls/Personal Protection

#### Components with occupational exposure limits

Glass, oxide, chemicals

ACGIH TLV TWA value 5 mg/m3 Inhalable fraction; TWA

value 1 fibers/cm3 Fiber;

Respirable fibers: length > 5 micrometers; aspect ration >= 3:1, as determined by the membrane filter method at 400-450X magnification (4-mm objective), using phase-contrast illumination.

TWA value 0.2 fibers/cm3 Fiber;

Respirable fibers: length > 5 micrometers; aspect ration >= 3:1, as determined by the membrane filter method at 400-450X magnification (4-mm objective), using phase-contrast illumination.

carbon black OSHA PEL PEL 3.5 mg/m3 ; TWA value 3.5 mg/m3 ;

ACGIH TLV TWA value 3 mg/m3 Inhalable fraction;

#### Advice on system design:

Provide local exhaust ventilation to control dusts/mists.

### Personal protective equipment

## Respiratory protection:

Wear a NIOSH-certified (or equivalent) particulate respirator. Wear respiratory protection if ventilation is inadequate. Do not exceed the maximum use concentration for the respirator facepiece/cartridge combination.

#### Hand protection:

Wear gloves to prevent contact during mechanical processing and/or hot melt conditions.

## Eye protection:

Safety glasses with side-shields.

#### **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. After use of gloves apply skin-cleaning agents and skin cosmetics.

## 9. Physical and Chemical Properties

Form: pellets
Odour: odourless

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Odour threshold: not applicable

Colour: black

pH value: not applicable

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

Boiling range: The substance / product

decomposes therefore not

determined.

Sublimation point: No applicable information available.

Flash point: not applicable Flammability: not self-igniting

Flammability of Aerosol not applicable, the product does not

Products: 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: > 400 °C (ASTM D1929)

Vapour pressure: not applicable

Density: 1.30 - 1.50 g/cm3 (EN ISO 1183-1)

( 20 °C)

Relative density: Study does not need to be conducted.

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

Vapour density: not applicable Partitioning coefficient n- not applicable

octanol/water (log Pow):

Self-ignition not self-igniting

temperature:

Thermal decomposition: > 300 °C

To avoid thermal decomposition, do not overheat.

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: > 300 degrees Celsius

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## Incompatible materials

No substances known that should be avoided.

## Hazardous decomposition products

#### Decomposition products:

Hazardous decomposition products: carbon monoxide, tetrahydrofuran, acrylonitrile, Styrene, alpha-Methylstyrene, Water, n-butyl acrylate, carbon dioxide

#### Thermal decomposition:

> 300 °C

To avoid thermal decomposition, do not overheat.

## 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.

## Oral

Type of value: ATE Value: > 5,000 mg/kg

Practically nontoxic. The product has not been tested. The statement has been derived from the properties of the individual components.

## <u>Inhalation</u>

Not inhalable due to the physico-chemical properties of the product.

### **Dermal**

Type of value: ATE Value: > 5,000 mg/kg

Practically nontoxic. The product has not been tested. The statement has been derived from the properties of the individual components.

#### 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**

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No aspiration hazard expected.

## **Chronic Toxicity/Effects**

### Repeated dose toxicity

Assessment of repeated dose toxicity: No applicable information available.

#### **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: No applicable information available.

#### 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.

## Symptoms of Exposure

No significant reaction of the human body to the product known.

## 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.

#### 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.

## **Bioaccumulative potential**

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#### Bioaccumulation potential

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

## 13. Disposal considerations

### Waste disposal of substance:

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

### Container disposal:

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

State RTK	CAS Number	Chemical name
NJ	65997-17-3	Glass, oxide, chemicals
	1333-86-4	carbon black
	14807-96-6	talc
PA	65997-17-3	Glass, oxide, chemicals

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

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**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: 2018/05/23

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