1. Identification

Product identifier

**Ultrafuse PP GF30**

Recommended use: 3D Printing, for industrial use only

Details of the supplier of the safety data sheet

Company:
BASF 3D Printing Solutions B.V.
Eerste Bokslootweg 17
7821 AT Emmen, Netherlands

Telephone: +31 591 820 389
E-mail address: sales@basf-3dps.com

Emergency telephone number

National Poisoning Information Centre: +31 30 – 2748888
Information only for professionals in case of acute intoxication
International emergency number:
Telephone: +49 180 2273-112

2. Hazards Identification

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.

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### 3. Composition/Information on Ingredients

**Substances**

Not applicable

**Mixtures**

**Chemical nature**

Polymer

**Hazardous ingredients (GHS)**

According to UN GHS criteria

No particular hazards known.

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### 4. First-Aid Measures

**Description of first aid measures**

Remove contaminated clothing.

If inhaled:

Remove the affected individual into fresh air and keep the person calm. Assist in breathing if necessary. If symptoms persist, seek medical advice.

On skin contact:

Wash thoroughly with soap and water. Burns caused by molten material require hospital treatment. If irritation develops, seek medical attention.

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:

Keep patient calm, remove to fresh air. Immediate medical attention required.
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, foam, dry powder

Special hazards arising from the substance or mixture
carbon oxides
The substances/groups of substances mentioned can be released in case of fire.

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

Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Avoid the formation and build-up of dust - danger of dust explosion. Dust in sufficient concentration can result in an explosive mixture in air. Handle to minimize dusting and eliminate open flame and other sources of ignition.

Personal precautions, protective equipment and emergency procedures
No special precautions necessary.

Environmental precautions
Discharge into the environment must be avoided.

Methods and material for containment and cleaning up
For small amounts: Sweep/shovel up.
For large amounts: Sweep/shovel up. Vacuum up spilled product.
Reclaim for processing if possible. Ensure adequate ventilation. Avoid raising dust.
7. Handling and Storage

**Precautions for safe handling**
Avoid inhalation of dusts/mists/vapours. Ensure adequate ventilation. Provide suitable exhaust ventilation at the drying process and in the area surrounding the melt outlet of processing machines. Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges. Avoid the formation and deposition of dust.

Protection against fire and explosion:
The product is not an oxidizer, not self-combustible and not explosive. Avoid dust formation. Dust in sufficient concentration can result in an explosive mixture in air. Handle to minimize dusting and eliminate open flame and other sources of ignition.

**Conditions for safe storage, including any incompatibilities**

Storage stability:
Protect against moisture.

8. Exposure Controls/Personal Protection

**Control parameters**

**Components with occupational exposure limits**

65997-17-3: Glass, oxide, chemicals polypropylene

**Exposure controls**

**Personal protective equipment**

Respiratory protection:
Breathing protection if breathable aerosols/dust are formed. Wear respiratory protection if ventilation is inadequate. Particle filter with medium efficiency for solid and liquid particles (e.g. EN 143 or 149, Type 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**
Wear protective clothing to prevent contact during mechanical processing and/or hot melt conditions. Store work clothing separately. Hands and/or face should be washed before breaks and at the end of the shift.

9. Physical and Chemical Properties

Information on basic physical and chemical properties

- **Form:** filament
- **Colour:** black
- **Odour:** odourless
- **Odour threshold:** not applicable
- **pH value:** not applicable
- **Melting point:** > 200 °C
- **Boiling point:** not applicable
- **Flash point:** not applicable
- **Evaporation rate:** The product is a non-volatile solid.
- **Flammability:** not flammable
- **Lower explosion limit:** For solids not relevant for classification and labelling.
- **Upper explosion limit:** For solids not relevant for classification and labelling.
- **Ignition temperature:** not applicable
- **Vapour pressure:** not applicable
- **Density:** 1.1 g/cm³ (20 °C)
- **Relative vapour density (air):** not applicable
- **Solubility in water:** insoluble
- **Partitioning coefficient n-octanol/water (log Kow):** not applicable
- **Self ignition:** not self-igniting
- **Thermal decomposition:** No decomposition if stored and handled as prescribed/indicated. Prolonged thermal loading can result in products of degradation being given off.
- **Viscosity, dynamic:** not applicable
- **Viscosity, kinematic:** not applicable, the product is a solid
BASF Safety data sheet according to UN GHS 4th rev.
Date / Revised: 14.11.2019  Version: 2.0
Product: Ultrafuse PP GF30  (ID no. 972860/SDS_GEN_00/EN)
Date of print 16.11.2019

Explosion hazard: not explosive
Fire promoting properties: not fire-propagating

Other information
Self heating ability: It is not a substance capable of spontaneous heating.

Other Information:
If necessary, information on other physical and chemical parameters is indicated in this section.

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

Corrosion to metals: No corrosive effect on metal.

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

Possibility of hazardous reactions
No hazardous reactions when stored and handled according to instructions.

Conditions to avoid
Avoid dust formation. Avoid deposition of dust.

Incompatible materials
Substances to avoid: oxidizing agents

Hazardous decomposition products
Thermal decomposition products:
Prolonged thermal loading can result in products of degradation being given off.

11. Toxicological Information
Information on toxicological effects

Acute toxicity
Assessment of acute toxicity:
Contact with molten product may cause thermal burns.

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

(by inhalation): The inhalation of dusts represents a potential acute hazard.

(dermal): No applicable information available.

Irritation

Assessment of irritating effects:
May cause slight irritation to the skin. May cause slight irritation to the eyes. May cause slight irritation to the respiratory tract.

Experimental/calculated data:
Skin corrosion/irritation: May cause mechanical irritation.

Serious eye damage/irritation: May cause mechanical irritation.

Respiratory/Skin sensitization

Assessment of sensitization:
The chemical structure does not suggest a sensitizing effect. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Germ cell mutagenicity

Assessment of mutagenicity:
The chemical structure does not suggest a specific alert for such an effect. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Carcinogenicity

Assessment of carcinogenicity:
The chemical structure does not suggest a specific alert for such an effect. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Reproductive toxicity

Assessment of reproduction toxicity:
The chemical structure does not suggest a specific alert for such an effect. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Developmental toxicity

Assessment of teratogenicity:
The chemical structure does not suggest a specific alert for such an effect. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.
Specific target organ toxicity (single exposure)

Assessment of STOT single:
Based on available Data, the classification criteria are not met.

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

Assessment of repeated dose toxicity:
Repeated exposure to the substance by dermal administration leads to effects similar to those found after single exposure. Repeated exposure to the substance by inhalative administration leads to effects similar to those found after single exposure. Repeated exposure to the substance by oral administration leads to effects similar to those found after single exposure. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Aspiration hazard

No aspiration hazard expected.

Other relevant toxicity information

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

12. Ecological Information

Toxicity

Assessment of aquatic toxicity:
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.

Bioaccumulative potential

Assessment bioaccumulation potential:
Accumulation in organisms is not to be expected.

Mobility in soil

Assessment transport between environmental compartments:
Adsorption in soil: Study scientifically not justified.

Results of PBT and vPvB assessment
The product does not fulfill the criteria for PBT (Persistent/bioaccumulative/toxic) and vPvB (very persistent/very bioaccumulative).

**Additional information**

Add. remarks environm. fate & pathway:
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 treatment methods**

Dispose of in accordance with national, state and local regulations.

Contaminated packaging:
Dispose of in accordance with national, state and local regulations.

### 14. Transport Information

**Land transport**

ADR

| UN 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 |

RID

| UN 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 |

**Inland waterway transport**
BASF Safety data sheet according to UN GHS 4th rev.

Date / Revised: 14.11.2019

Product: **Ultrafuse PP GF30**

(Date no. 972860/SDS_GEN_00/EN)

(Date of print 16.11.2019)

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**ADN**

- **UN 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
- **Environmental hazards:** Not applicable
- **Special precautions for user:** None known

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**Transport in inland waterway vessel**

Not evaluated

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**Sea transport**

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**IMDG**

- **UN 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
- **Environmental hazards:** Not applicable
- **Special precautions for user:** None known

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**Air transport**

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**IATA/ICAO**

- **UN 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
- **Environmental hazards:** Not applicable
- **Special precautions for user:** None known

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**Transport in bulk according to Annex II of MARPOL and the IBC Code**

- **Regulation:** Not evaluated
- **Shipment approved:** Not evaluated
- **Pollution name:** Not evaluated
- **Pollution category:** Not evaluated
- **Ship Type:** Not evaluated
15. Regulatory Information

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

If other regulatory information applies that is not already provided elsewhere in this safety data sheet, then it is described in this subsection.

16. Other Information

Any other intended applications should be discussed with the manufacturer. Corresponding occupational protection measurements must be followed.

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.

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