

# Safety data sheet

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BASF 3D Printing Safety data sheet

Date / Revised: 03.03.2022

Product: **Ultrafuse® ASA Black**

Version: 2.0

(11146758/SDS\_GEN\_SG/EN)

Date of print 02.02.2024

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

### Ultrafuse® ASA Black

Recommended use: 3D Printing, for industrial use only

Manufacturer/supplier:

BASF 3D Printing Solutions B.V.

Eerste Bokslootweg 17

7821 AT Emmen, Netherlands

Contact address:

BASF SEA Pte Ltd

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#35-01 Suntec Tower One, 038987

SINGAPORE

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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:  
The product may cause burns, if handled in the melted state.

### 3. Composition/information on ingredients

#### Chemical nature

Substance nature: mixture

Preparation based on: Polymer, additives

#### Hazardous ingredients

| Phenol, 2-(2H-benzotriazol-2-yl)-4-methyl-

| Content (W/W): < 0.5 %  
| CAS Number: 2440-22-4

Skin Sens.: Cat. 1B  
Aquatic Chronic: Cat. 1  
M-factor chronic: 1

| bis(2,2,6,6-tetramethyl-4-piperidyl)sebacate

| Content (W/W): < 0.5 %  
| CAS Number: 52829-07-9

Acute Tox.: Cat. 5 (oral)  
Eye Dam./Irrit.: Cat. 1  
Aquatic Acute: Cat. 1  
Aquatic Chronic: Cat. 2  
Repr.: Cat. 2 (fertility)  
M-factor acute: 1

### 4. First-Aid Measures

General advice:

Remove contaminated clothing.

If inhaled:

Remove the affected individual into fresh air and keep the person calm. If symptoms persist, seek medical advice.

On skin contact:

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

On contact with eyes:

Wash affected eyes for at least 15 minutes under running water with eyelids held open. If irritation develops, seek medical attention.

On ingestion:

Rinse mouth immediately with water. Immediate medical attention required.

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.

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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, carbon dioxide

Specific hazards:  
carbon oxides  
The substances/groups of substances mentioned can be released in case of fire.

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

Further information:  
Dust can form an explosive mixture with air. 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:  
Discharge into the environment must be avoided.

Methods for cleaning up or taking up:  
For small amounts: Sweep/shovel up.  
For large amounts: Sweep/shovel up.  
Dispose of absorbed material in accordance with regulations. Avoid raising dust.

Additional information: 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.

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## 7. Handling and Storage

### 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.

Storage

Further information on storage conditions: Avoid deposition of dust.

Storage stability:

Protect against moisture.

## 8. Exposure controls and personal protection

Components with occupational exposure limits

The substances mentioned are contained only in traces in the product. The release and quantity of the stated substance is dependent on the processing conditions.

ethylbenzene, 100-41-4;

TWA value 20 ppm (ACGIHTLV)

TWA value 434 mg/m<sup>3</sup> ; 100 ppm (OEL (SG))

STEL value 543 mg/m<sup>3</sup> ; 125 ppm (OEL (SG))

styrene, 100-42-5;

STEL value 426 mg/m<sup>3</sup> ; 100 ppm (OEL (SG))

TWA value 213 mg/m<sup>3</sup> ; 50 ppm (OEL (SG))

STEL value 20 ppm (ACGIHTLV)

TWA value 10 ppm (ACGIHTLV)

acrylonitrile, 107-13-1;

TWA value 2 ppm (ACGIHTLV)

TWA value 4.3 mg/m<sup>3</sup> ; 2 ppm (OEL (SG))

Skin Designation (ACGIHTLV)

Danger of cutaneous absorption

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Danger of cutaneous absorption

n-butyl acrylate, 141-32-2;

TWA value 2 ppm (ACGIHTLV)

TWA value 52 mg/m<sup>3</sup> ; 10 ppm (OEL (SG))

Paraffin waxes and Hydrocarbon waxes, 8002-74-2;

TWA value 2 mg/m<sup>3</sup> (ACGIHTLV), fumes/smoke

TWA value 2 mg/m<sup>3</sup> (OEL (SG)), fumes/smoke

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.

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**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.

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## 9. Physical and Chemical Properties

Form:	filament
Colour:	black
Odour:	odourless
Odour threshold:	not applicable, odour not perceivable
pH value:	not applicable, substance/mixture is non-soluble (in water)
Melting point:	> 150 °C
Boiling point:	not applicable
Flash point:	not applicable, the product is a solid
Evaporation rate:	The product is a non-volatile solid.
Flammability (solid/gas):	Not a flammable solid according to UN transport regulations division 4.1 and GHS chapter 2.7.
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
Thermal decomposition:	No decomposition if stored and handled as prescribed/indicated. Prolonged thermal loading can result in products of degradation being given off.

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Self ignition:	not self-igniting
Self heating ability:	It is not a substance capable of spontaneous heating.
Explosion hazard:	not explosive
Fire promoting properties:	not fire-propagating
Vapour pressure:	not determined
Density:	1.07 g/cm <sup>3</sup> (20 °C)
Relative density:	1.07 (20 °C)
Relative vapour density (air):	The product is a non-volatile solid.
Solubility in water:	insoluble
Partitioning coefficient n-octanol/water (log Pow):	not applicable for mixtures
Viscosity, dynamic:	not applicable, the product is a solid

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## 10. Stability and Reactivity

Conditions to avoid:

Temperature: > 300 °C

Prolonged exposure to elevated temperatures may result in exothermic decomposition accompanied by a pressure build-up in sealed containers. Avoid all sources of ignition: heat, sparks, open flame.

Thermal decomposition:	No decomposition if stored and handled as prescribed/indicated. Prolonged thermal loading can result in products of degradation being given off.
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Substances to avoid:  
oxidizing agents

Corrosion to metals: No corrosive effect on metal.

Hazardous reactions:

No hazardous reactions when stored and handled according to instructions.

Hazardous decomposition products:

Prolonged thermal loading can result in products of degradation being given off., monomers, gases/vapours, oxides, hydrocarbons, cyclic low molecular weight oligomers

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## 11. Toxicological Information

### **Acute toxicity**

Assessment of acute toxicity:

Virtually nontoxic after a single ingestion. Virtually nontoxic by inhalation. Virtually nontoxic after a single skin contact. 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:

Not irritating to eyes and skin. May cause mechanical irritation.

### **Respiratory/Skin sensitization**

Assessment of sensitization:

Based on available data, the classification criteria are not met.

### **Germ cell mutagenicity**

Assessment of mutagenicity:

Based on available data, the classification criteria are not met.

### **Carcinogenicity**

Assessment of carcinogenicity:

Based on available data, the classification criteria are not met.

### **Reproductive toxicity**

Assessment of reproduction toxicity:

Based on available data, the classification criteria are not met.

### **Developmental toxicity**

Assessment of teratogenicity:

Based on available data, the classification criteria are not met.

### **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:

Based on available data, the classification criteria are not met.

**Aspiration hazard**

No aspiration hazard expected.

**Other relevant toxicity information**

The product has been assessed on the basis of the components' available data. To some extent data gaps exist for individual components. According to our present knowledge and experience dangers which are not covered by the current labeling are not to be expected.

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

Assessment of aquatic toxicity:

There is a high probability that the product is not acutely harmful to aquatic organisms. Based on long-term (chronic) toxicity study data, the product is very likely not harmful to aquatic organisms.

**Mobility**

Assessment transport between environmental compartments:

Adsorption to solid soil phase is expected.

**Persistence and degradability**

Assessment biodegradation and elimination (H<sub>2</sub>O):

No data available concerning biodegradation and elimination.

**Bioaccumulation potential**

Assessment bioaccumulation potential:

The product has not been tested.

**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.

Other ecotoxicological advice:

The product has been assessed on the basis of the components' available data. To some extent data gaps exist for individual components. According to our present knowledge and experience dangers which are not covered by the current labeling are not to be expected.

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**13. Disposal Considerations**

Dispose of in accordance with national, state and local regulations.  
Contact specialized companies about recycling.

Contaminated packaging:

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



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Contaminated packaging should be emptied as far as possible and disposed of in the same manner as the substance/product.

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## 14. Transport Information

### Domestic transport:

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

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## 15. Regulatory Information

### Other regulations

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

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## 16. Other Information

Any other intended applications should be discussed with the manufacturer.

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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.