

# Safety Data Sheet

## Ultrafuse® ASA Black

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Version: 2.0

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(11146758/SDS\_GEN\_CA/EN)

### 1. Identification

#### Product identifier used on the label

**Ultrafuse® ASA Black**

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

Recommended use\*: 3D Printing; for industrial use only

Unsuitable for use: Uses other than recommended

\* 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.

#### Details of the supplier of the safety data sheet

##### Company:

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

##### Contact address:

BASF Canada Inc.  
5025 Creekbank Road  
Building A, Floor 2  
Mississauga, ON, L4W 0B6, CANADA  
Telephone: +1 289 360-1300

#### Emergency telephone number

##### 24 Hour Emergency Response Information

CHEMTREC: 1-800-424-9300

BASF HOTLINE: (800) 454-COPE (2673)

#### Other means of identification

Chemical family: Polymer

### 2. Hazards Identification

#### According to Hazardous Products Regulations (HPR) (SOR/2015-17)

##### Classification of the product

Repr.

2 (fertility)

Reproductive toxicity

##### Label elements

Pictogram:

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Signal Word:  
Warning

Hazard Statement:  
H361 Suspected of damaging fertility.

Precautionary Statements (Prevention):  
P280 Wear protective gloves, protective clothing and eye protection or face protection.  
P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.

Precautionary Statements (Response):  
P308 + P313 IF exposed or concerned: Get medical attention.

Precautionary Statements (Storage):  
P405 Store locked up.

Precautionary Statements (Disposal):  
P501 Dispose of contents/container in accordance with local regulations.

### Hazards not otherwise classified

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

#### Labeling of special preparations (GHS):

This product is not combustible in the form in which it is shipped by the manufacturer, but may form a combustible dust through downstream activities (e.g. grinding, pulverizing) that reduce its particle size. UNDER HOT MELT PROCESSING CONDITIONS, WEAR PERSONAL PROTECTIVE EQUIPMENT TO PREVENT THERMAL BURNS.

## 3. Composition / Information on Ingredients

### According to Hazardous Products Regulations (HPR) (SOR/2015-17)

Phenol, 2-(2H-benzotriazol-2-yl)-4-methyl-  
CAS Number: 2440-22-4  
Content (W/W): > 0.0 - < 1.0%  
Synonym: 2-(2H-Benzotriazol-2-yl)-4-methylphenol; 2-(2H-Benzotriazol-2-yl)-p-cresol

bis(2,2,6,6-tetramethyl-4-piperidyl)sebacate  
CAS Number: 52829-07-9  
Content (W/W): > 0.0 - < 1.0%  
Synonym: Decanedioic acid bis(2,2,6,6-tetramethyl-4-piperidyl) ester;  
Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate

carbon black  
CAS Number: 1333-86-4  
Content (W/W): >= 0.1 - < 1.0%  
Synonym: C.I. 77266

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### Styrene

CAS Number: 100-42-5  
Content (W/W):  $\geq 0.0$  -  $< 0.1\%$   
Synonym: Vinylbenzene; Styrene, Ethenylbenzene

### acrylonitrile

CAS Number: 107-13-1  
Content (W/W):  $\geq 0.0$  -  $< 0.1\%$   
Synonym: 2-Propenenitrile; Acrylonitrile, Cyanoethylene

### n-butyl acrylate

CAS Number: 141-32-2  
Content (W/W):  $\geq 0.0$  -  $< 0.1\%$   
Synonym: 2-Propenoic acid butyl ester; Butyl acrylate

### Paraffin wax

CAS Number: 8002-74-2  
Content (W/W):  $\geq 0.0$  -  $< 0.1\%$   
Synonym: Paraffin wax; Paraffin waxes and Hydrocarbon waxes

### ethylbenzene

CAS Number: 100-41-4  
Content (W/W):  $\geq 0.0$  -  $< 0.1\%$   
Synonym: Ethylbenzene

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## 4. First-Aid Measures

### Description of first aid measures

#### General advice:

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.

#### If on skin:

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

#### If in eyes:

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

#### If swallowed:

Rinse mouth immediately with water. Immediate medical attention required.

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

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

*Information on: Phenol, 2-(2H-benzotriazol-2-yl)-4-methyl-*

*Symptoms: Overexposure may cause: allergic contact dermatitis, nausea, headache, vomiting, dizziness, diarrhea, abdominal cramps*

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*Information on: bis(2,2,6,6-tetramethyl-4-piperidyl)sebacate*

*Symptoms: Overexposure may cause: corneal injury, skin corrosion, severe pain, coughing, respiratory disorders, dyspnea, nausea, headache, vomiting, dizziness, diarrhea, abdominal cramps*

*Information on: carbon black*

*Symptoms: Overexposure may cause: rhinitis, irritation of the mucous membranes, irritates the eyes and respiratory tract, nausea, headache, vomiting, dizziness, diarrhea, abdominal cramps*

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

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## 5. Fire-Fighting Measures

### Extinguishing media

Suitable extinguishing media:  
water spray, foam, dry powder, carbon dioxide

Unsuitable extinguishing media for safety reasons:  
No data available.

### Special hazards arising from the substance or mixture

Hazards during fire-fighting:  
Vapors/fumes may contain traces of combustible substances.

### Advice for fire-fighters

Protective equipment for fire-fighting:  
Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.

### Further information:

Dusty conditions may ignite explosively in the presence of an ignition source causing flash fire.

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## 6. Accidental release measures

### Further 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

Wear suitable personal protective clothing and equipment. Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice.

### Environmental precautions

Do not discharge into drains/surface waters/groundwater.

Dispose of in compliance with the environmental protection requirements.

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### 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. Nonsparking tools should be used. After decontamination, spill area can be washed with water.

## 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:

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. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Dry powders can build static electricity charges when subjected to the friction of transfer and mixing operations. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres. Refer to NFPA 654, Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and Handling of Combustible Particulate Solids (2013 Edition) for safe handling.

### Conditions for safe storage, including any incompatibilities

Segregate from oxidizing agents.

Further information on storage conditions: Avoid extreme heat. Avoid deposition of dust.

Storage stability:

Protect against moisture.

## 8. Exposure Controls/Personal Protection

### Components with occupational exposure limits

carbon black	ACGIH, US:	TWA value 3 mg/m <sup>3</sup> Inhalable fraction ;
	OSHA Z1:	PEL 3.5 mg/m <sup>3</sup> ;

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	ACGIH, US:	TWA value 20 ppm ;
	OSHA Z1:	PEL 100 ppm 435 mg/m <sup>3</sup> ;

Styrene	OSHA Z2:	TWA value 100 ppm ;
	OSHA Z2:	max. conc. 600 ppm ;
	OSHA Z2:	CLV 200 ppm ;
	ACGIH, US:	STEL value 20 ppm ;
	ACGIH, US:	TWA value 10 ppm ;

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acrylonitrile	ACGIH, US:	TWA value 2 ppm ;
	OSHA, US:	STEL value 10 ppm ;
	OSHA, US:	TWA value 2 ppm ;
	OSHA, US:	OSHA Action level 1 ppm ;
	ACGIH, US:	Skin Designation ; Danger of cutaneous absorption
	ACGIH, US:	Skin Designation ; Danger of cutaneous absorption
n-butyl acrylate	ACGIH, US:	TWA value 2 ppm ;
Paraffin wax	ACGIH, US:	TWA value 2 mg/m3 fumes/smoke ;

### Advice on system design:

It is recommended that all dust control equipment such as local exhaust ventilation and material transport systems involved in handling of this product contain explosion relief vents or an explosion suppression system or an oxygen deficient environment. Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e., there is no leakage from the equipment). Use only appropriately classified electrical equipment and powered industrial trucks.

### Personal protective equipment

#### Respiratory protection:

Wear respiratory protection if ventilation is inadequate. Wear a NIOSH-certified (or equivalent) organic vapour/particulate respirator.

#### Hand protection:

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

#### Eye protection:

Safety glasses with side-shields. Wear splash goggles to protect from hot molten substance/product.

#### Body protection:

Body protection must be chosen depending on activity and possible exposure, e.g. head protection, apron, protective boots, chemical-protection suit.

#### General safety and hygiene measures:

Avoid inhalation of dust. Wear protective clothing to prevent contact during mechanical processing and/or hot melt conditions. Wash soiled clothing immediately.

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## 9. Physical and Chemical Properties

Form:	filament
Odour:	odourless
Odour threshold:	not applicable, odour not perceivable
Colour:	black
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
Flammability:	Not a flammable solid according to UN transport regulations division 4.1 and GHS chapter 2.7.

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Lower explosion limit:	For solids not relevant for classification and labelling.
Upper explosion limit:	For solids not relevant for classification and labelling.
Autoignition:	not applicable
Vapour pressure:	not determined
Density:	1.07 g/cm <sup>3</sup> ( 20 °C)
Relative density:	1.07 ( 20 °C)
Vapour density:	The product is a non-volatile solid.
Partitioning coefficient n-octanol/water (log Pow):	not applicable for mixtures
Self-ignition temperature:	not self-igniting
Thermal decomposition:	> 300 °C No decomposition if stored and handled as prescribed/indicated. Thermal decomposition above the indicated temperature is possible. Prolonged thermal loading can result in products of degradation being given off.
Viscosity, dynamic:	not applicable, the product is a solid
Solubility in water:	insoluble
Evaporation rate:	The product is a non-volatile solid.

## 10. Stability and Reactivity

### Reactivity

Corrosion to metals:  
No corrosive effect on metal.

Oxidizing properties:  
Not an oxidizer.

### 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 if stored and handled as prescribed/indicated.

### Conditions to avoid

Temperature: > 300 degrees Celsius  
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.

### Incompatible materials

oxidizing agents

### Hazardous decomposition products

Decomposition products:  
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

Thermal decomposition:

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> 300 °C

No decomposition if stored and handled as prescribed/indicated. Thermal decomposition above the indicated temperature is possible. Prolonged thermal loading can result in products of degradation being given off.

## 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: Inhalation of particulates may cause respiratory tract irritation. Ingestion may cause gastrointestinal disturbances. Contact with molten product may cause thermal burns. The resin in pelleted form poses a low hazard.

#### Oral

No applicable information available.

#### Inhalation

The inhalation of dusts represents a potential acute hazard.

#### Dermal

No applicable information available.

#### Assessment other acute effects

Assessment of STOT single:

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

#### Irritation / corrosion

Assessment of irritating effects: Not irritating to eyes and skin. May cause mechanical irritation.

#### Sensitization

Assessment of sensitization: Based on available data, the classification criteria are not met.

#### Aspiration Hazard

No aspiration hazard expected.

### Chronic Toxicity/Effects

#### Repeated dose toxicity

Assessment of repeated dose toxicity: Based on available data, the classification criteria are not met.

#### Genetic toxicity

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.

#### *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*



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*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.*

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### Reproductive toxicity

Assessment of reproduction toxicity: Possible risk of impaired fertility.

*Information on: bis(2,2,6,6-tetramethyl-4-piperidyl)sebacate*

*Assessment of reproduction toxicity: The results of animal studies suggest a fertility impairing effect.*

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### Teratogenicity

Assessment of teratogenicity: Based on available data, the classification criteria are not met.

### Other 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

### **Toxicity**

#### Aquatic toxicity

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.

### **Persistence and degradability**

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

No data available concerning biodegradation and elimination.

### **Bioaccumulative potential**

#### Assessment bioaccumulation potential

The product has not been tested.

### **Mobility in soil**

#### Assessment transport between environmental compartments

Adsorption to solid soil phase is expected.

### **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

**Waste disposal of substance:**

Incinerate in a licensed facility. Do not discharge substance/product into sewer system.

**Container disposal:**

Dispose of in accordance with national, state and local regulations. Contaminated packaging should be emptied as far as possible and disposed of in the same manner as the substance/product.

### 14. Transport Information

**Land transport**

TDG

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 DSL, CA released / listed

**NFPA Hazard codes:**

Health: 1 Fire: 0 Reactivity: 0 Special:

### 16. Other Information

**SDS Prepared by:**

BASF 3D Printing NA Product Regulations

SDS Prepared on: 2022/04/28

We support worldwide Responsible Care® initiatives. We value the health and safety of our employees, customers, suppliers and neighbors, and the protection of the environment. Our commitment to Responsible Care is integral to conducting our business and operating our facilities in a safe and environmentally responsible fashion, supporting our customers and suppliers in ensuring the safe and environmentally sound handling of our products, and minimizing the impact of our operations on society and the environment during production, storage, transport, use and disposal of our products.

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Ultrafuse® ASA Black Any other intended applications should be discussed with the manufacturer.

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