

## Safety data sheet

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BASF 3D Printing Safety data sheet according to Regulation (EC) No. 1907/2006 as amended from time

to time.

Date / Revised: 04.08.2020 Version: 4.0
Date previous version: 22.06.2018 Previous version: 3.0

Product: Ultracur3D® ST 45

(ID no. 30770318/SDS\_GEN\_EU/EN)

Date of print 09.09.2021

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

## 1.1. Product identifier

## Ultracur3D® ST 45

UFI: DHD7-X2TA-X00Y-QSGR

## **1.2.** Relevant identified uses of the substance or mixture and uses advised against Recommended use: photoinitiator

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

Company:

BASF 3D Printing Solutions GmbH Speyerer Str. 4 69115 Heidelberg, Germany

Telephone: +49 6221 67417 900 E-mail address: sales@basf-3dps.com

## 1.4. Emergency telephone number

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

## **SECTION 2: Hazards Identification**

## 2.1. Classification of the substance or mixture

to time.

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For the classification of the mixture the following methods have been applied: extrapolation on the concentration levels of the hazardous substances, on basis of test results and after evaluation of experts. The methodologies used are mentioned at the respective test results.

## According to Regulation (EC) No 1272/2008 [CLP]

Acute Tox. 4 (oral) H302 Harmful if swallowed. Skin Corr./Irrit. 2 H315 Causes skin irritation.

Eye Dam./Irrit. 1 H318 Causes serious eye damage.
Skin Sens. 1 H317 May cause an allergic skin reaction.

STOT RE 2 H373 May cause damage to organs through prolonged or repeated

exposure.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

For the classifications not written out in full in this section the full text can be found in section 16.

#### 2.2. Label elements

## Globally Harmonized System, EU (GHS)

Pictogram:



### Signal Word: Danger

## Hazard Statement:

H318 Causes serious eye damage.

H315 Causes skin irritation. H302 Harmful if swallowed.

H317 May cause an allergic skin reaction.

H373 May cause damage to organs through prolonged or repeated exposure.

H412 Harmful to aquatic life with long lasting effects.

#### Precautionary Statements (Prevention):

P280 Wear protective gloves and eye protection or face protection.

P260 Do not breathe dust/gas/mist/vapours.
P273 Avoid release to the environment.

P272 Contaminated work clothing should not be allowed out of the workplace.

P270 Do not eat, drink or smoke when using this product.
P264 Wash contaminated body parts thoroughly after handling.

## Precautionary Statements (Response):

to time.

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P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER or physician.

P303 + P352 IF ON SKIN (or hair): Wash with plenty of soap and water.

P330 Rinse mouth

P362 + P364 Take off contaminated clothing and wash it before reuse.

Precautionary Statements (Disposal):

P501 Dispose of contents and container to hazardous or special waste

collection point.

#### 2.3. Other hazards

According to Regulation (EC) No 1272/2008 [CLP]

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

## **SECTION 3: Composition/Information on Ingredients**

#### 3.1. Substances

Not applicable

## 3.2. Mixtures

Chemical nature

photopolymer

Hazardous ingredients (GHS)

according to Regulation (EC) No. 1272/2008

diphenyl(2,4,6- trimethylbenzoyl)phosphine oxide

Content (W/W): >= 1 % - < 3 % Skin Sens. 1B
CAS Number: 75980-60-8 Repr. 2 (fertility)
EC-Number: 278-355-8 Repr. 2 (unborn child)
Aquatic Chronic 2

H317, H361fd, H411

4-(1,1-Dimethylethyl)cyclohexyl acrylate

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Content (W/W): >= 1 % - < 5 % Skin Corr./Irrit. 2 CAS Number: 84100-23-2 Eve Dam./Irrit. 2 EC-Number: 282-104-8 Skin Sens. 1A

STOT SE 3 (irr. to respiratory syst.) REACH registration number: 01-

2120735441-62

INDEX-Number: 607-133-00-9 Aquatic Chronic 2

M-factor acute: 1

Aquatic Acute 1

H319, H315, H317, H335, H411, H400

Specific concentration limit:

STOT SE 3, irr. to respiratory syst.: >= 10 %

(Octahydro-4,7-methano-1H-indenediyl)bis(methylene) diacrylate

Content (W/W): >= 5 % - < 7 % Skin Corr./Irrit. 2 CAS Number: 42594-17-2 Eye Dam./Irrit. 2 EC-Number: 255-901-3 Skin Sens. 1B

INDEX-Number: 607-133-00-9 STOT SE 3 (irr. to respiratory syst.)

Aquatic Chronic 2

H319, H315, H317, H335, H411

Specific concentration limit:

STOT SE 3, irr. to respiratory syst.: >= 10 %

Polymeric urethane acrylate

Content (W/W): >= 25 % - < 50 %Skin Corr./Irrit. 2 CAS Number: 52404-33-8 Eye Dam./Irrit. 2 H319, H315

2-Propen-1-one, 1-(4-morpholinyl)-

Content (W/W): >= 50 % - < 75 %Acute Tox. 4 (oral) CAS Number: 5117-12-4 Eye Dam./Irrit. 1 EC-Number: 418-140-1 Skin Sens. 1 INDEX-Number: 613-222-00-3 STOT RE 2

H318, H302, H317, H373

For the classifications not written out in full in this section, including the hazard classes and the hazard statements, the full text is listed in section 16.

## **SECTION 4: First-Aid Measures**

## 4.1. Description of first aid measures

Immediately remove contaminated clothing.

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#### If inhaled:

If difficulties occur after vapour/aerosol has been inhaled, remove to fresh air and seek medical attention.

#### On skin contact:

Wash thoroughly with soap and water

#### On contact with eyes:

Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

#### On ingestion:

Rinse mouth and then drink 200-300 ml of water. Do not induce vomiting unless told to by a poison control center or doctor.

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

Symptoms: Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11., (Further) symptoms and / or effects are not known so far

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

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

## **SECTION 5: Fire-Fighting Measures**

### 5.1. Extinguishing media

Suitable extinguishing media: water spray, dry powder, foam

Unsuitable extinguishing media for safety reasons: water jet

### 5.2. Special hazards arising from the substance or mixture

harmful vapours

Evolution of fumes/fog. The substances/groups of substances mentioned can be released in case of fire.

## 5.3. Advice for fire-fighters

Special protective equipment:

Wear a self-contained breathing apparatus.

#### Further information:

The degree of risk is governed by the burning substance and the fire conditions. Contaminated extinguishing water must be disposed of in accordance with official regulations.

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## **SECTION 6: Accidental Release Measures**

## 6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective clothing. Breathing protection required.

## 6.2. Environmental precautions

Contain contaminated water/firefighting water. Do not discharge into drains/surface waters/groundwater.

## 6.3. Methods and material for containment and cleaning up

For large amounts: Pump off product.

For residues: Pick up with suitable absorbent material. Dispose of absorbed material in accordance with regulations.

## 6.4. Reference to other sections

Information regarding exposure controls/personal protection and disposal considerations can be found in section 8 and 13.

## **SECTION 7: Handling and Storage**

### 7.1. Precautions for safe handling

No special measures necessary provided product is used correctly.

Protection against fire and explosion:

Heated containers should be cooled to prevent polymerization. Take precautionary measures against static discharges.

### 7.2. Conditions for safe storage, including any incompatibilities

Further information on storage conditions: Protect against heat. Protect from the effects of light. The stabilizer is only effective in the presence of oxygen.

Protect from temperatures above: 30 °C

## 7.3. 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.

## **SECTION 8: Exposure Controls/Personal Protection**

## 8.1. Control parameters

#### 8.2. Exposure controls

Personal protective equipment

to time.

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## Respiratory protection:

Suitable respiratory protection for higher concentrations or long-term effect: Gas filter for gases/vapours of organic compounds (boiling point >65 °C, e. g. EN 14387 Type A)

#### Hand protection:

Chemical resistant protective gloves (EN 374)

Suitable materials also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374):

nitrile rubber (NBR) - 0.4 mm coating thickness

Supplementary note: The specifications are based on tests, literature data and information of glove manufacturers or are derived from similar substances by analogy. Due to many conditions (e.g. temperature) it must be considered, that the practical usage of a chemical-protective glove in practice may be much shorter than the permeation time determined through testing. Manufacturer's directions for use should be observed because of great diversity of types.

### Eye protection:

Tightly fitting safety goggles (cage goggles) (e.g. EN 166) and face shield.

#### 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

Handle in accordance with good industrial hygiene and safety practice. Wearing of closed work clothing is required additionally to the stated personal protection equipment.

## **SECTION 9: Physical and Chemical Properties**

## 9.1. Information on basic physical and chemical properties

Form: liquid

Colour: slightly yellowish Odour: acrylic-like

Odour threshold:

Not determined due to potential health hazard by inhalation.

pH value:

(10 g/I)

not applicable

onset of boiling:

The substance / product polymerizes

therefore not determined.

Flash point: > 100 °C

Evaporation rate:

not determined

to time.

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Lower explosion limit:

For liquids not relevant for classification and labelling., The lower explosion point may be 5 - 15

°C below the flash point.

Upper explosion limit:

For liquids not relevant for classification and labelling.

Ignition temperature:

not determined

Vapour pressure:

(20 °C)

not applicable

Density: 1.118 g/cm3 (ISO 2811-3)

(20 °C)

Relative density:

No data available.

Relative vapour density (air):

not determined

Solubility in water: partly soluble, Information applies to

the solvent.

Solubility (qualitative) solvent(s): alcohols, esters, ketones

soluble

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

not applicable for mixtures

Self ignition: not self-igniting

Thermal decomposition: 178.73 °C, 323.06 kJ/kg,

Viscosity, dynamic: 360 mPa.s

(23 °C)

Explosion hazard: not explosive

Fire promoting properties: not fire-propagating

## 9.2. Other information

Hygroscopy: Non-hygroscopic

Surface tension:

No data available.

Grain size distribution: The substance / product is marketed or used in a non solid or

granular form.

## **SECTION 10: Stability and Reactivity**

## 10.1. Reactivity

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

## 10.2. Chemical stability

to time.

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

## 10.3. Possibility of hazardous reactions

The product can polymerize if the shelf life or storage temperature are greatly exceeded. Heat develops during polymerization. Reacts with peroxides and other radical components. The product is stabilized against spontaneous polymerization prior to despatch.

#### 10.4. Conditions to avoid

Avoid UV-light and other radiation with high energy. Avoid heat. See SDS section 7 - Handling and storage.

## 10.5. Incompatible materials

Substances to avoid:

peroxides, oxidizable substances, strong oxidizing agents, free radical initiators, initiators

## 10.6. Hazardous decomposition products

Hazardous decomposition products:

No hazardous decomposition products if stored and handled as prescribed/indicated.

## **SECTION 11: Toxicological Information**

### 11.1. Information on toxicological effects

## Acute toxicity

Experimental/calculated data:

LD50 rat (oral): 300 - 2,000 mg/kg

The product has not been tested. The statement has been derived from the properties of the individual components. Result of analysis for GOAL end points expected (see date)

LC50 rat (by inhalation): 4 h

not determined

## Irritation

Experimental/calculated data:

Skin corrosion/irritation rabbit: Irritant.

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

Serious eye damage/irritation rabbit: irreversible damage

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

## Respiratory/Skin sensitization

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#### Assessment of sensitization:

May cause allergic skin reaction. The product has not been tested. The statement has been derived from the properties of the individual components.

## Experimental/calculated data:

skin sensitizing

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

### Germ cell mutagenicity

#### Assessment of mutagenicity:

Based on the ingredients, there is no suspicion of a mutagenic effect.

## Carcinogenicity

#### Assessment of carcinogenicity:

No data available.

#### Reproductive toxicity

#### Assessment of reproduction toxicity:

No reliable data are available concerning reproduction toxicity.

## Developmental toxicity

## Assessment of teratogenicity:

Based on the ingredients, there is no suspicion of a teratogenic effect.

#### Specific target organ toxicity (single exposure)

Remarks: No data available.

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

### Assessment of repeated dose toxicity:

Repeated exposure may affect certain organs. The product has not been tested. The statement has been derived from the properties of the individual components.

#### Aspiration hazard

No aspiration hazard expected.

## **SECTION 12: Ecological Information**

## 12.1. Toxicity

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Assessment of aquatic toxicity:

Acutely toxic for aquatic organisms. May cause long-term adverse effects in the aquatic environment. The product has not been tested. The statement has been derived from the properties of the individual components.

Toxicity to fish:

LC50 (96 h) > 1 - 10 mg/l, Fish

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

Aquatic invertebrates: LC50 (48 h), daphnia (other) not determined

Aquatic plants: EC50 (72 h), algae (other) not determined

Microorganisms/Effect on activated sludge: EC50 (0.5 h), bacteria (other) not determined

Chronic toxicity to fish: No data available.

Chronic toxicity to aquatic invertebrates: No data available.

Assessment of terrestrial toxicity:

No data available concerning terrestrial toxicity.

### 12.2. Persistence and degradability

Assessment biodegradation and elimination (H2O): Not readily biodegradable (by OECD criteria).

## 12.3. Bioaccumulative potential

Assessment bioaccumulation potential: The product has not been tested.

### 12.4. Mobility in soil

Assessment transport between environmental compartments: Volatility: No data available.

to time.

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#### 12.5. 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 contain a substance fulfilling the PBT (persistent/bioaccumulative/toxic) criteria or the vPvB (very persistent/very bioaccumulative) criteria.

#### 12.6. Other adverse effects

No data available.

#### 12.7. Additional information

Add. remarks environm. fate & pathway:

Treatment in biological waste water treatment plants has to be performed according to local and administrative regulations.

Other ecotoxicological advice:

Do not discharge product into the environment without control.

## **SECTION 13: Disposal Considerations**

## 13.1. Waste treatment methods

Must be disposed of or incinerated in accordance with local regulations.

Contaminated packaging:

Uncontaminated packaging can be re-used.

Packs that cannot be cleaned should be disposed of in the same manner as the contents.

## **SECTION 14: Transport Information**

### **Land transport**

ADR

Not classified as a dangerous good under transport regulations

UN 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

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**RID** 

Not classified as a dangerous good under transport regulations

UN 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

## **Inland waterway transport**

ADN

Not classified as a dangerous good under transport regulations

UN 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:

Transport in inland waterway vessel

Not evaluated

## Sea transport

**IMDG** 

Not classified as a dangerous good under transport regulations

UN number:
UN proper shipping name:
Transport hazard class(es):
Packing group:
Environmental hazards:
Special precautions for

Not applicable

user

## Air transport

IATA/ICAO

Not classified as a dangerous good under transport regulations

to time.

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UN number:
UN proper shipping name:
Transport hazard class(es):
Packing group:
Environmental hazards:
Special precautions for

Not applicable

user

#### 14.1. UN number

See corresponding entries for "UN number" for the respective regulations in the tables above.

## 14.2. UN proper shipping name

See corresponding entries for "UN proper shipping name" for the respective regulations in the tables above.

## 14.3. Transport hazard class(es)

See corresponding entries for "Transport hazard class(es)" for the respective regulations in the tables above.

## 14.4. Packing group

See corresponding entries for "Packing group" for the respective regulations in the tables above.

#### 14.5. Environmental hazards

See corresponding entries for "Environmental hazards" for the respective regulations in the tables above.

#### 14.6. Special precautions for user

See corresponding entries for "Special precautions for user" for the respective regulations in the tables above.

## 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Regulation:
Shipment approved:
Pollution name:
Pollution category:
Not evaluated

## **SECTION 15: Regulatory Information**

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

Prohibitions, Restrictions and Authorizations

Annex XVII of Regulation (EC) No 1907/2006: Number on List: 3

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Directive 2012/18/EU - Control of Major Accident Hazards involving dangerous substances (EU):

Listed in above regulation: no

## 15.2. Chemical Safety Assessment

The obligation to register acc. to the REACH Regulation (EC) No 1907/2006 does not apply to polymers.

#### **SECTION 16: Other Information**

Full text of the classifications, including the hazard classes and the hazard statements, if mentioned

in section 2 or 3:

Acute Tox. Acute toxicity

Skin Corr./Irrit. Skin corrosion/irritation

Eye Dam./Irrit. Serious eye damage/eye irritation

Skin Sens. Skin sensitization

STOT RE Specific target organ toxicity — repeated exposure Aquatic Chronic Hazardous to the aquatic environment - chronic

Repr. Reproductive toxicity

STOT SE Specific target organ toxicity — single exposure Aquatic Acute Hazardous to the aquatic environment - acute

H318 Causes serious eye damage.

H315 Causes skin irritation. H302 Harmful if swallowed.

H317 May cause an allergic skin reaction.

H373 May cause damage to organs through prolonged or repeated exposure.

H412 Harmful to aquatic life with long lasting effects.

H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.

H411 Toxic to aquatic life with long lasting effects.

H319 Causes serious eye irritation. H335 May cause respiratory irritation.

H400 Very toxic to aquatic life.

## **Abbreviations**

ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road. ADN = The European Agreement concerning the International Carriage of Dangerous Goods by Inland waterways. ATE = Acute Toxicity Estimates. CAO = Cargo Aircraft Only. CAS = Chemical Abstract Service. CLP = Classification, Labelling and Packaging of substances and mixtures. DIN = German national organization for standardization. DNEL = Derived No Effect Level. EC50 = Effective concentration median for 50% of the population. EC = European Community. EN = European Standards. IARC = International Agency for Research on Cancer. IATA = International Air Transport Association. IBC-Code = Intermediate Bulk Container code. IMDG = International Maritime Dangerous Goods Code. ISO = International Organization for Standardization. STEL = Short-Term Exposure Limit. LC50 = Lethal concentration median for 50% of the population. LD50 = Lethal dose median for 50% of the population. TLV = Threshold Limit Value. MARPOL = The International Convention for the Prevention of Pollution from Ships. NEN = Dutch Norm. NOEC = No Observed Effect Concentration. OEL = Occupational Exposure Limit. OECD = Organization for Economic Cooperation and Development. PBT = Persistent,

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Bioaccumulative and Toxic. PNEC = Predicted No Effect Level. PPM = Parts per million. RID = The European Agreement concerning the International Carriage of Dangerous Goods by Rail. TWA = Time Weight Average. UN-number = UN number at transport. vPvB = very Persistent and very Bioaccumulative.

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.