

# Safety data Sheet

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BASF Safety Data Sheet in accordance with EC Regulation No. 1907/2006 and its subsequent modifications.

Date / updated on: 31.07.2018

Version: 2.0

Product: **Ultracur3D ST45**

(ID No. 30770318 / SDS\_GEN\_ES / ES)

Printing date 07/16/2020

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

### 1.1. Product identifier

## Ultracur3D ST45

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Proper use: photoinitiator

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

Business:BASF SE  
67056 Ludwigshafen  
GERMANYContact address:BASF Española SL Unipersonal C /  
Can Rabia, 3/5  
08017 Barcelona  
SPAIN

Telephone: +34 93 496-4214

E-mail address: Seguridad-de-Producto.Iberia@basf.com

### 1.4. Emergency number

International emergency number (24h) with local response

Telephone: +49 180 2273-112

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## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

In accordance with EC Regulation No. 1272/2008 [CLP]

Acute Tox. 4 (By ingestion)

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Skin Corr./Irrit. two  
Eye Dam./Irrit. 1  
Skin Sens. 1  
STOT RE 2  
Aquatic Chronic 3

H318, H315, H302, H317, H373, H412

The full text of the classifications mentioned in this section is specified in the Chapter 16.

## 2.2. Label elements

Globally Harmonized System, EU (GHS)

Pictogram:



Signal word: Danger

Hazard statements:

H318	Causes serious eye damage.
H315	Causes skin irritation.
H302	Harmful if swallowed.
H317	May produce an allergic reaction on the skin.
H373	May damage certain organs by prolonged or repeated exposure.
H412	Harmful to aquatic organisms with long lasting effects.

Precautionary statements (prevention):

P280	Wear protective gloves / goggles / mask.
P260	Do not breathe dust / gas / mist / vapors. To avoid it's releasing into the environment.
P273	Contaminated work clothing should not be allowed out of the workplace.

P270	Do not eat, drink or smoke during use.
P264	Wash thoroughly with soap and water after handling.

Precautionary statements (answer):

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P305 + P351 + P338	IN CASE OF CONTACT WITH THE EYES: Rinse carefully with water for several minutes. Remove contact lenses, if present and easy. Keep clarifying.
P310	Immediately call a POISON CENTER, doctor / doctor or the emergency number 112.
P303 + P352	IN CASE OF CONTACT WITH SKIN (or hair): Wash thoroughly with soap and water.
P330	Rinse mouth.
P362 + P364	Take off contaminated clothing and wash before reuse.

Precautionary statements (disposal):

P501 Dispose of contents / container to special waste collection point.

### 2.3. Other dangers

In accordance with EC Regulation No. 1272/2008 [CLP]

No specific risk known, respecting the regulations / indications for storage and handling.

If applicable, information on other hazards that do not result in classification but may contribute to the overall hazard of the substance or mixture is provided in this section.

## SECTION 3: Composition / Information on ingredients

### 3.1. Substance

Not applicable

### 3.2. Mix

#### Chemical Description

photopolymer

#### Hazardous ingredients (GHS)

according to Regulation (CE) No. 1272/2008

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

Content (P / P):> = 1% - <3% CAS  
number: 75980-60-8  
EC number: 278-355-8

Skin Sens. 1B  
Repr. 2 (fertility)  
Repr. 2 (fetus)  
Aquatic Chronic 2  
H317, H361fd, H411

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4- (1,1-dimethylethyl) cyclohexyl acrylate

Content (P / P):> = 1% - <5% CAS	Skin Corr./Irrit. two
number: 84100-23-2	Eye Dam./Irrit. two
CE number: 282-104-8	Skin Sens. 1A
REACH registration number:	STOT SE 3 (respiratory system irritant)
01120735441-62	Aquatic Acute 1
INDEX number: 607-133-00-9	Aquatic Chronic 2
	Acute M factor: 1
	H319, H315, H317, H335, H411, H400

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

Content (P / P):> = 50% - <75% Acute Tox. 4 (By ingestion)	
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

Polymeric urethane acrylate

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

(Octahydro-4,7-methane-1H-indenodiy) bis (methylene) diacrylate

Content (P / P):> = 5% - <7% CAS	Skin Corr./Irrit. two
number: 42594-17-2	Eye Dam./Irrit. two
EC number: 255-901-3	Skin Sens. 1B
INDEX number: 607-133-00-9	STOT SE 3 (respiratory system irr.)
	Aquatic Chronic 2
	H319, H315, H317, H335, H411

Specific concentration limit: STOT SE  
3:> = 10%

For classification not fully detailed in this section, including hazard classes and phrases, the full text appears in section 16.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

Change contaminated clothing immediately.

After inhalation:

In case of discomfort after inhalation of vapor / aerosol: breathe fresh air, seek medical help.

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After skin contact:

Wash thoroughly with soap and water.

After eye contact:

Wash affected eyes with running water for at least 15 minutes, keeping the eyelids open. Consult with an ophthalmologist.

After ingestion:

Immediately wash the mouth and drink plenty of water afterwards, seek medical help.

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

Symptoms: The most important known symptoms and effects are described on the label (see section 2) and / or in section 11. Additional, more important symptoms and effects are unknown so far.

#### **4.3. Indication of any immediate medical attention and special treatments that may be required.**

Treatment: Symptomatic treatment (decontamination, vital functions), no specific antidote is known.

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## **SECTION 5: Firefighting measures**

### **5.1. Extinguishing media**

Suitable extinguishing media:

water spray, powder extinguisher, foam

Unsuitable extinguishing media for safety reasons: water jet

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

Harmful fumes

Smoke / fog formation. In case of fire, the substances / groups of substances mentioned can be released.

### **5.3. Recommendations for firefighters**

Special protective clothing:

Protect yourself with a self-contained breathing apparatus.

Additional Information:

The risk depends on the substances that are burning and the conditions of the fire. Contaminated extinguishing water must be disposed of in compliance with current local laws.

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## **SECTION 6: Accidental release measures**

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

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Wear personal protective clothing. Respiratory protection is necessary.

### **6.2. Environmental precautions**

Withhold contaminated water, including fire fighting water, if contaminated. Avoid discharge into sewers, surface or underground waters.

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

For large quantities: Pump the product.

For waste: Pick up with suitable absorbent materials. Dispose of collected material according to local regulations.

### **6.4. Reference to other sections**

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

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## **SECTION 7: Handling and storage**

### **7.1. Precautions for safe handling**

No special measures are recommended, if the product is used properly.

Protection against fire / explosion:

Refrigerate the containers to avoid polymerization due to the effects of heat. Avoid the accumulation of electrostatic charges.

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

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

Protect from temperatures above: 30 °C

### **7.3. Specific end uses**

For the relevant use (s) identified according to section 1, the indications mentioned in section 7 must be taken into account.

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## **SECTION 8: Exposure controls / Personal protection**

### **8.1. Control parameters**

Components with limit values for exposure in the workplace

There are no known occupational exposure limits

### **8.2. Exposure controls**

Personal protective equipment

Respiratory protection:

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Adequate protection for the respiratory tract at high concentrations or prolonged incidence: Gas filter for organic gases / vapors (boiling point > 65 °C, eg EN 14387 type A).

Hand protection:

Chemical resistant protective gloves (EN 374).

Materials suitable for direct and prolonged contact (recommended: protection factor 6, corresponding to > 480 minutes of permeation time according to EN 374):

nitrile rubber (NBR) - 0.4 mm coating thickness

Additional information: The data are the results of our tests, bibliography and information on glove manufacturers, or analogous data for similar substances. It must be taken into account that in practice the daily wear time of chemical resistant protective gloves is clearly less, due to many factors (eg temperature), than the time determined by permeability tests.

Due to the wide variety of types, the manufacturer's instruction manual should be observed.

Eye protection:

Tightly fitting safety goggles (basket goggles) (eg EN 166) and face mask

Body protection:

Select body protection depending on activity and possible exposure, eg apron, protective boots, chemical resistant protective suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust formation)

General protection and hygiene measures

Handle in accordance with the safety regulations for chemical products. Wearing closed work clothing is an additional requirement in the indications for personal protective equipment.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Shape:	liquid
Colour:	slightly yellowish similar
Odor:	to acrylic
Odor threshold:	Not determined due to potential health hazard by inhalation.
PH value:	(10 g / l)
	not applicable
start of boiling:	Undetermined. Substance / Product polymerizes.
Flashpoint:	> 100 °C

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Evaporation rate:	undetermined	
Lower explosion limit:	For liquids not relevant for classification and labeling, the lower explosion point may be 5 15 ° C below the flash point.	
Upper explosion limit:	For liquids not relevant for classification and labeling	
Ignition temperature:		(DIN 51794)
Vapor pressure:	(20 ° C) not applicable	
Density:	1,118 g / cm <sup>3</sup> (20 ° C)	(ISO 2811-3)
Relative density:	No data available.	
Relative vapor density (air):	undetermined	
Water solubility:	partially soluble, Information applicable to the solvent.	
Solubility (qualitative) Solvent (s):	alcohols, esters, ketones soluble	
Partition coefficient n-octanol / water (log Kow):	not applicable for mixtures	
Self-igniting:	not self-igniting	
Thermal decomposition:	not determined	
Viscosity, dynamic:	360 mPa.s (23 ° C)	
Risk of explosion:	no risk of explosion	
Oxidizing properties:	not oxidizing	

## 9.2. Additional Information

Hydroscopic:	non-hygroscopic
Surface tension:	No data available.
Distribution of grain size:	The substance or product is marketed or used in non-solid or granular form

## SECTION 10: Stability and reactivity

### 10.1. Reactivity



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No dangerous reaction, if the regulations / instructions on storage and handling are observed.

## 10.2. Chemical stability

The product is stable if the regulations / instructions on storage and handling are observed.

## 10.3. Possibility of hazardous reactions

After exceeding the authorized time or storage temperature excessively, the product may polymerize. Emanation of heat in case of polymerization. Reactions with peroxides and other radical formers.

Before marketing, the product is stabilized to avoid spontaneous polymerization.

## 10.4. Conditions to avoid

Avoid ultraviolet radiation and other energetic radiation. Avoid heat. See MSDS chapter 7 - Handling and storage.

## 10.5. Incompatible materials

Substances to avoid:

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

## 10.6. Hazardous decomposition products

Hazardous decomposition products:

No dangerous decomposition products are presented, if the regulations / indications on storage and handling are taken into account.

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## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Acute toxicity

Experimental / calculated data:

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

The product has not been tested. The valuation has been calculated from the properties of its individual components. Results of the analyzes planned for the GOAL endpoints (see date)

LC50 rat (By inhalation): 4 h not determined

#### Irritation

Experimental / calculated data: Skin corrosion / irritation rabbit: Irritant.

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The product has not been tested. The valuation has been calculated from the properties of its individual components.

Serious eye damage / irritation rabbit: irreversible damage

The product has not been tested. The valuation has been calculated from the properties of its individual components.

#### Respiratory / skin sensitization

Sensitization assessment:

(US) May cause an allergic skin reaction. The product has not been tested. The valuation has been calculated from the properties of its individual components.

Experimental / calculated data: skin sensitizer

The product has not been tested. The valuation has been calculated from the properties of its 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 reproductive toxicity:

Based on the ingredients, there are no suspected reproductive toxicities.

#### Developmental toxicity

Assessment of teratogenicity:

Based on the ingredients there is no indication of any teratogenic effect.

#### Specific target organ toxicity - single exposure

Indications: No data available.

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

Assessment of toxicity in case of frequent application:

In case of repeated exposures, the substance can affect certain specific organs. The product has not been tested. The valuation has been calculated from the properties of its individual components.

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#### Aspiration hazard

No aspiration hazard expected.

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## **SECTION 12: Ecological information**

### **12.1. Toxicity**

Aquatic toxicity assessment:

Acute toxicity to aquatic organisms. May cause long-term adverse effects in the aquatic environment. The product has not been tested. The valuation has been calculated from the properties of its individual components.

Fish toxicity:

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

The product has not been tested. The valuation has been calculated from the properties of its individual components.

Aquatic invertebrates:

LC50 (48 h), daphnia not determined

Aquatic plants:

EC50 (72 h), algae not determined

Microorganisms / effect on activated sludge: EC50

(0.5 h), bacteria undetermined

Chronic fish toxicity: No data available.

Aquatic invertebrate chronic toxicity: No data available.

Assessment of terrestrial toxicity:

No data is available regarding terrestrial toxicity.

### **12.2. Persistence and degradability**

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

Hardly biodegradable (according to OECD criteria)

### **12.3. Bioaccumulative potential**

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Assessment of bioaccumulation potential: The product has not been tested.

#### **12.4. Mobility in the soil**

Assessment of mobility between environmental compartments: Volatility:  
No data available.

#### **12.5. Results of PBT and vPvB assessment**

According to Annex XIII of Regulation (EC) No. 1907/2006 on the registration, evaluation, authorization and restriction of chemical substances and preparations (REACH): The product does not contain any substance that meets the PBT criterion (persistent / bioaccumulative / toxic) or with the vPvB criterion (very persistent / very bioaccumulative)

#### **12.6. Other adverse effects**

No data available.

#### **12.7. Additional indications**

Other indications on distribution and waste:  
Treatment and introduction of wastewater in biological treatment plants must comply with local and administrative regulations.

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### **SECTION 13: Disposal considerations**

#### **13.1. Waste treatment methods**

Taking local regulations into account, it must be disposed of in eg a landfill or a suitable incineration plant.

Contaminated packaging:  
Uncontaminated packaging can be reused.  
Non-reusable packaging must be disposed of like the product.

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### **SECTION 14: Transport information**

#### **Land transport**

ADR

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Not dangerous goods according to the criteria of the transport regulations

UN number: Not applicable  
 Official designation of United Nations transport: Not applicable

Transport hazard class (es): Not applicable

Packing group: Not applicable  
 Environmental hazards: Not applicable

Special precautions for users None known

#### RID

Not dangerous goods according to the criteria of the transport regulations

UN number: Not applicable  
 Official designation of United Nations transport: Not applicable

Transport hazard class (es): Not applicable

Packing group: Not applicable  
 Environmental hazards: Not applicable

Special precautions for users None known

#### Inland transportation by boat

##### DNA

Not dangerous goods according to the criteria of the transport regulations

UN number: Not applicable  
 Official designation of United Nations transport: Not applicable

Transport hazard class (es): Not applicable

Packing group: Not applicable  
 Environmental hazards: Not applicable

Special precautions for users: None known

Transport in inland navigable waters by vessels not assessed

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### Maritime transport by boat

IMDG

Not dangerous goods according to the criteria of the transport regulations

UN number: Not applicable  
 Official designation of United Nations transport: Not applicable

Transport hazard class (es): Not applicable

Packing group: Not applicable  
 Environmental hazards: Not applicable

Special precautions for users: None known

### Sea transport

IMDG

Not classified as a dangerous good under transport regulations

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

### Air Transport

IATA / ICAO

Not dangerous goods according to the criteria of the transport regulations

UN number: Not applicable  
 Official designation of United Nations transport: Not applicable

Transport hazard class (es): Not applicable

Packing group: Not applicable  
 Environmental hazards: Not applicable

Special precautions for users: None known

### Air transport

IATA / ICAO

Not classified as a dangerous good under transport regulations

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

## **14.1. UN number**

See corresponding sections for the UN number for the respective legislation in the table above.

## **14.2. UN proper shipping name**

See corresponding sections for the 'official UN designation of transport' for the respective legislations in the table above.

## **14.3. Transport hazard class (es)**

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See corresponding sections for the 'transport hazard class' for the respective legislations in the tables above.

#### 14.4. Packing group

See corresponding sections for the 'packing group' for the respective legislations in the table above.

#### 14.5. Hazards to the environment

See corresponding sections for 'environmental hazard' for the respective legislation in the table above.

#### 14.6. Special precautions for users

See corresponding sections for 'special user precautions' for respective laws in the table above.

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

Regulation:	Not rated
Approved expedition:	Not rated
Name of the contamination:	Not rated
Category of the contamination:	Not rated
Ship type:	Not rated

#### 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

## SECTION 15: Regulatory information

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

Prohibitions, limitations and authorizations

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

### 15.2. Chemical safety assessment

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

## SECTION 16: Other information

The full text of the classifications, including the indication of danger, the danger symbols, the R phrases and the H phrases, if mentioned in section 2 or 3:

Acute Tox.	Acute toxicity
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Skin Corr./Irrit.	Skin corrosion / irritation
Eye Dam./Irrit.	Serious eye damage / irritation
Skin Sens.	Skin sensitizer
STOT RE	Specific target organ toxicity - repeated exposure Hazardous to the aquatic
Aquatic Chronic	environment - chronic
Repr.	Toxic for reproduction
STOT SE	Specific target organ toxicity - single exposure Hazardous to the aquatic
Aquatic Acute	environment - acute
H318	Causes serious eye damage. Causes
H315	skin irritation.
H302	Harmful if swallowed.
H317	May produce an allergic reaction on the skin.
H373	May damage certain organs by prolonged or repeated exposure.
H412	Harmful to aquatic organisms with long lasting effects. Susceptible to impair
H361fd	fertility. Susceptible to harm the fetus. Toxic for the aquatic organisms, with
H411	lasting noxious effects. Causes serious eye irritation.
H319	
H335	It can irritate the respiratory tract.
H400	Very toxic for aquatic organisms.
H373	May damage certain organs ( ) by prolonged or repeated exposure.

The data contained in this Safety Data Sheet is based on our current knowledge and experience and describes the product considering the safety requirements. This Safety Data Sheet is neither a Certificate of Analysis (CoA) nor a technical sheet and should not be confused with a specification agreement. The uses identified in this safety data sheet do not represent a contractual agreement on the quality of the substance / mixture or on the designated use. It is the responsibility of the recipient of our products to ensure that proprietary rights and existing laws and regulations are observed.

Variations from the previous version have been indicated for your convenience by vertical lines located on the left margin of the text.