

Safety data sheet

Page: 1/20

BASF safety data sheet. This document has been drafted following generic rules for safety data sheets. It does not replace the safety data sheet provided according to Regulation (EC) No 1907/2006.

Date / Revised: 23.06.2023

Version: 5.0

Date previous version: 10.02.2023

Previous version: 4.0

Date / First version: 05.10.2021

Product: **XPRO1100-Black (a.k.a. Ultracur3D® RG 1100 B)**

(ID no. 30791802/SDS_GEN_EU/EN)

Date of print 31.01.2024

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

1.1. Product identifier

XPRO1100-Black (a.k.a. Ultracur3D® RG 1100 B)

UFI: SJG0-S891-W003-U17V

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

Recommended use: 3D Printing

1.3. Details of the supplier of the safety data sheet

Company:
BASF SE
67056 Ludwigshafen
GERMANY

Telephone: +49 621 60-0
E-mail address: global.info@basf.com

1.4. Emergency telephone number

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

BASF safety data sheet. This document has been drafted following generic rules for safety data sheets. It does not replace the safety data sheet provided according to Regulation (EC) No 1907/2006.

Date / Revised: 23.06.2023
 Date previous version: 10.02.2023
 Date / First version: 05.10.2021

Version: 5.0
 Previous version: 4.0

Product: **XPRO1100-Black (a.k.a. Ultracur3D® RG 1100 B)**

(ID no. 30791802/SDS_GEN_EU/EN)

Date of print 31.01.2024

SECTION 2: Hazards Identification

2.1. Classification of the substance or mixture

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]

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 SE 3	H335 May cause respiratory irritation.
STOT RE 2 (oral)	H373 May cause damage to organs through prolonged or repeated oral exposure.
Aquatic Chronic 2	H411 Toxic 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

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

Pictogram:



Signal Word:

Danger

Hazard Statement:

H318	Causes serious eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H335	May cause respiratory irritation.
H373	May cause damage to organs through prolonged or repeated oral exposure.
H411	Toxic to aquatic life with long lasting effects.

Precautionary Statements (Prevention):

P280	Wear protective gloves and eye protection or face protection.
P273	Avoid release to the environment.

Precautionary Statements (Response):

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.

Precautionary Statements (Storage):

P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
-------------	--

BASF safety data sheet. This document has been drafted following generic rules for safety data sheets. It does not replace the safety data sheet provided according to Regulation (EC) No 1907/2006.

Date / Revised: 23.06.2023

Version: 5.0

Date previous version: 10.02.2023

Previous version: 4.0

Date / First version: 05.10.2021

Product: **XPRO1100-Black (a.k.a. Ultracur3D® RG 1100 B)**

(ID no. 30791802/SDS_GEN_EU/EN)

Date of print 31.01.2024

Precautionary Statements (Disposal):

P501 Dispose of contents and container to hazardous or special waste collection point.

Hazard determining component(s) for labelling: 2-Propen-1-one, 1-(4-morpholinyl)-, diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide, 4-(1,1-Dimethylethyl)cyclohexyl acrylate, (Octahydro-4,7-methano-1H-indenediyl)bis(methylene) diacrylate

2.3. Other hazards

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

If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture. Product does not contain a substance above legal limits included in the list established in accordance with Article 59(1) of Regulation (EC) No 1907/2006 for having endocrine disrupting properties or is identified to have endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605. The product does not fulfill the criteria for PBT (Persistent/bioaccumulative/toxic) and vPvB (very persistent/very bioaccumulative).

SECTION 3: Composition/Information on Ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Chemical nature

Blend based on: acrylic resin, additives

This product contains (a) substance(s) included on the candidate list according to article 59 (1,10) of regulation EC No. 1907/2006 ('REACH') in a concentration equal or above 0.1% w/w: diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide

Regulatory relevant ingredients

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

BASF safety data sheet. This document has been drafted following generic rules for safety data sheets. It does not replace the safety data sheet provided according to Regulation (EC) No 1907/2006.

Date / Revised: 23.06.2023
 Date previous version: 10.02.2023
 Date / First version: 05.10.2021

Version: 5.0
 Previous version: 4.0

Product: **XPRO1100-Black (a.k.a. Ultracur3D® RG 1100 B)**

(ID no. 30791802/SDS_GEN_EU/EN)

Date of print 31.01.2024

Content (W/W): $\geq 50\%$ - $< 75\%$ 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.: $\geq 10\%$

Polymeric urethane acrylate

Content (W/W): $\geq 15\%$ - $< 25\%$ Skin Corr./Irrit. 2
 CAS Number: 68585-11-5 Eye Dam./Irrit. 2
 H319, H315

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

Content (W/W): $\geq 15\%$ - $< 20\%$ 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

Oxybis(methyl-2,1-ethanediyl) diacrylate

Content (W/W): $> 0\%$ - $< 3\%$ Skin Corr./Irrit. 2
 CAS Number: 57472-68-1 Eye Dam./Irrit. 1
 EC-Number: 260-754-3 Skin Sens. 1
 REACH registration number: 01- H318, H315, H317
 2119484629-21

4-(1,1-Dimethylethyl)cyclohexyl acrylate

Content (W/W): $\geq 0.3\%$ - $< 3\%$ Skin Corr./Irrit. 2
 CAS Number: 84100-23-2 Eye Dam./Irrit. 2
 EC-Number: 282-104-8 Skin Sens. 1A
 REACH registration number: 01- STOT SE 3 (irr. to respiratory syst.)
 2120735441-62 Aquatic Acute 1
 INDEX-Number: 607-133-00-9 Aquatic Chronic 2
 M-factor acute: 1
 H319, H315, H317, H335, H411, H400
Specific concentration limit:
 STOT SE 3, irr. to respiratory syst.: $\geq 10\%$

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

BASF safety data sheet. This document has been drafted following generic rules for safety data sheets. It does not replace the safety data sheet provided according to Regulation (EC) No 1907/2006.

Date / Revised: 23.06.2023
Date previous version: 10.02.2023
Date / First version: 05.10.2021

Version: 5.0
Previous version: 4.0

Product: **XPRO1100-Black (a.k.a. Ultracur3D® RG 1100 B)**

(ID no. 30791802/SDS_GEN_EU/EN)

Date of print 31.01.2024

<p>Content (W/W): $\geq 0.3\%$ - $< 1\%$ CAS Number: 75980-60-8 EC-Number: 278-355-8</p> <p>Included on the candidate list according to article 59 (1,10) of regulation EC No. 1907/2006 ('REACH').</p> <p>acrylic acid</p> <p>Content (W/W): $\geq 0.1\%$ - $< 0.2\%$ CAS Number: 79-10-7 REACH registration number: 01-2119452449-31</p> <p>Substance with EU occupational exposure limit</p>	<p>Skin Sens. 1B Repr. 2 (fertility) Repr. 2 (unborn child) Aquatic Chronic 2 H317, H411, H361fd</p> <p>Acute Tox. 4 (Inhalation - vapour) Acute Tox. 4 (dermal) Acute Tox. 4 (oral) Flam. Liq. 3 Eye Dam./Irrit. 1 Skin Corr./Irrit. 1A Aquatic Chronic 2 Aquatic Acute 1 M-factor acute: 1 H226, H314, H302 + H312 + H332, H411, H400</p> <p><u>Specific concentration limit:</u> STOT SE 3, irr. to respiratory syst.: 1 - 5 %</p>
---	---

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

Remove contaminated clothing.

If inhaled:

Keep patient calm, remove to fresh air, seek medical attention.

On skin contact:

Wash thoroughly with soap and water

On contact with eyes:

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

On ingestion:

Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention.

BASF safety data sheet. This document has been drafted following generic rules for safety data sheets. It does not replace the safety data sheet provided according to Regulation (EC) No 1907/2006.

Date / Revised: 23.06.2023

Version: 5.0

Date previous version: 10.02.2023

Previous version: 4.0

Date / First version: 05.10.2021

Product: **XPRO1100-Black (a.k.a. Ultracur3D® RG 1100 B)**

(ID no. 30791802/SDS_GEN_EU/EN)

Date of print 31.01.2024

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

Symptoms: The most important known symptoms and effects are described in section 2 and/or in section 11., (Further) symptoms and / or effects are not known so far

Hazards: No hazard is expected under intended use and appropriate handling.

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

Endangering substances: harmful vapours, carbon oxides, nitrogen oxides

Advice: 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 self-contained breathing apparatus and chemical-protective clothing.

Further information:

If exposed to fire, keep containers cool by spraying with water. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

SECTION 6: Accidental Release Measures

6.1. Personal precautions, protective equipment and emergency procedures

Do not breathe vapour/spray. Ensure adequate ventilation. Avoid contact with the skin, eyes and clothing. Use personal protective clothing. Information regarding personal protective measures, see section 8.

BASF safety data sheet. This document has been drafted following generic rules for safety data sheets. It does not replace the safety data sheet provided according to Regulation (EC) No 1907/2006.

Date / Revised: 23.06.2023

Version: 5.0

Date previous version: 10.02.2023

Previous version: 4.0

Date / First version: 05.10.2021

Product: **XPRO1100-Black (a.k.a. Ultracur3D® RG 1100 B)**

(ID no. 30791802/SDS_GEN_EU/EN)

Date of print 31.01.2024

6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up

For large amounts: Dike spillage. Pump off product.

For residues: Pick up with inert absorbent material (e.g. sand, earth etc.).

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

Avoid aerosol formation. Do not inhale vapours / aerosols. Avoid contact with the skin, eyes and clothing. Wear suitable protective clothing and gloves. Provide good ventilation of working area (local exhaust ventilation if necessary).

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

Segregate from foods and animal feeds.

Further information on storage conditions: Containers should be stored tightly sealed in a dry place. Keep container dry because product takes up the humidity of air. Protect against heat. Protect from the effects of light. The stabilizer is only effective in the presence of oxygen. Ensure adequate inhibitor and dissolved oxygen level.

Storage stability:

Storage temperature: -15 - 40 °C

Protect from temperatures below:-15 °C

Changes in the properties of the product may occur if substance/product is stored below indicated temperature for extended periods of time.

Protect from temperatures above:40 °C

Changes in the properties of the product may occur if substance/product is stored above indicated temperature for extended periods of time. If transport time lasts more than 4 days the packed product must be protected against exceeding the indicated temperature.

BASF safety data sheet. This document has been drafted following generic rules for safety data sheets. It does not replace the safety data sheet provided according to Regulation (EC) No 1907/2006.

Date / Revised: 23.06.2023

Version: 5.0

Date previous version: 10.02.2023

Previous version: 4.0

Date / First version: 05.10.2021

Product: **XPRO1100-Black (a.k.a. Ultracur3D® RG 1100 B)**

(ID no. 30791802/SDS_GEN_EU/EN)

Date of print 31.01.2024

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

Components with occupational exposure limits

79-10-7: acrylic acid

1333-86-4: Carbon black

8.2. Exposure controls

Appropriate engineering controls

Ensure adequate ventilation.

Personal protective equipment

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)

Eye protection:

Tightly fitting safety goggles (splash goggles) (e.g. EN 166)

General safety and hygiene measures

Under no circumstances should the product come into contact with the skin of pregnant women or be inhaled by them. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with the skin, eyes and clothing. Avoid inhalation. Wearing of closed work clothing is required additionally to the stated personal protection equipment. Store work clothing separately. Hands and/or face should be washed before breaks and at the end of the shift. When using, do not eat, drink or smoke.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

State of matter:	liquid
Form:	resin
Colour:	black, opaque
Odour:	acrylic-like
Odour threshold:	not determined
Melting point:	No data available.

BASF safety data sheet. This document has been drafted following generic rules for safety data sheets. It does not replace the safety data sheet provided according to Regulation (EC) No 1907/2006.

Date / Revised: 23.06.2023
 Date previous version: 10.02.2023
 Date / First version: 05.10.2021

Version: 5.0
 Previous version: 4.0

Product: **XPRO1100-Black (a.k.a. Ultracur3D® RG 1100 B)**

(ID no. 30791802/SDS_GEN_EU/EN)

Date of print 31.01.2024

Boiling point:	> 150 °C (1,013 hPa) Information based on the main component/s. The substance / product decomposes.	(Directive 84/449/EEC, A.2)
Flammability:	not highly flammable	
Lower explosion limit:	not determined	
Upper explosion limit:	not determined	
Flash point:	> 95 °C	
Auto-ignition temperature:	not determined	
Thermal decomposition:	187.89 °C, 440.22 J/g	
pH value:	substance/mixture is non-soluble (in water)	
Viscosity, kinematic:	not determined	
Viscosity, dynamic:	421 mPa.s (30 °C)	
Solubility in water:	not determined	
Solubility (qualitative) solvent(s):	organic solvents soluble	
Partitioning coefficient n-octanol/water (log Kow):	not applicable for mixtures	
Vapour pressure:	not determined	
Relative density:	1.09 (20 °C)	
Density:	1 g/cm ³ (20 °C)	
Relative vapour density (air):	not determined	

9.2. Other information

Information with regard to physical hazard classes

Explosives

Explosion hazard: not explosive

Oxidizing properties

Fire promoting properties: not fire-propagating

Self-heating substances and mixtures

Self heating ability: not applicable, the product is a liquid

Corrosion to metals

BASF safety data sheet. This document has been drafted following generic rules for safety data sheets. It does not replace the safety data sheet provided according to Regulation (EC) No 1907/2006.

Date / Revised: 23.06.2023

Version: 5.0

Date previous version: 10.02.2023

Previous version: 4.0

Date / First version: 05.10.2021

Product: **XPRO1100-Black (a.k.a. Ultracur3D® RG 1100 B)**

(ID no. 30791802/SDS_GEN_EU/EN)

Date of print 31.01.2024

Corrosive effects to metal are not anticipated.

Other safety characteristics

SAPT-Temperature: > 75 °C

Evaporation rate:

not determined, Value can be approximated from Henry's Law Constant or vapor pressure.

SECTION 10: Stability and Reactivity

10.1. Reactivity

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

Corrosion to metals: Corrosive effects to metal are not anticipated.

10.2. Chemical stability

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 heat. Avoid UV-light and other radiation with high energy. Avoid direct sunlight. Avoid prolonged storage. Avoid inhibitor loss.

10.5. Incompatible materials

Substances to avoid:
free radical initiators

10.6. Hazardous decomposition products

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

BASF safety data sheet. This document has been drafted following generic rules for safety data sheets. It does not replace the safety data sheet provided according to Regulation (EC) No 1907/2006.

Date / Revised: 23.06.2023

Version: 5.0

Date previous version: 10.02.2023

Previous version: 4.0

Date / First version: 05.10.2021

Product: **XPRO1100-Black (a.k.a. Ultracur3D® RG 1100 B)**

(ID no. 30791802/SDS_GEN_EU/EN)

Date of print 31.01.2024

SECTION 11: Toxicological Information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Assessment of acute toxicity:

Of low toxicity after single ingestion.

Information on: 2-Propen-1-one, 1-(4-morpholinyl)-

Experimental/calculated data:

LD50 rat (oral): 588 mg/kg (OECD Guideline 401)

Information on: 2-Propen-1-one, 1-(4-morpholinyl)-

Experimental/calculated data:

LD50 rat (dermal): > 2,000 mg/kg (OECD Guideline 402)

Irritation

Assessment of irritating effects:

Skin contact causes irritation. May cause severe damage to the eyes.

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

Assessment of irritating effects:

The European Union (EU) has classified the substance as "irritating to skin and eyes".

Information on: 2-Propen-1-one, 1-(4-morpholinyl)-

Assessment of irritating effects:

May cause severe damage to the eyes. EU-classification Not irritating to the skin.

Respiratory/Skin sensitization

Assessment of sensitization:

Sensitization after skin contact possible.

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

Assessment of sensitization:

Sensitization after skin contact possible.

Information on: 2-Propen-1-one, 1-(4-morpholinyl)-

Assessment of sensitization:

Sensitization after skin contact possible. EU-classification

Information on: diphenyl(2,4,6,-trimethylbenzoyl)phosphine oxide

Assessment of sensitization:

Caused skin sensitization in animal studies.

BASF safety data sheet. This document has been drafted following generic rules for safety data sheets. It does not replace the safety data sheet provided according to Regulation (EC) No 1907/2006.

Date / Revised: 23.06.2023
Date previous version: 10.02.2023
Date / First version: 05.10.2021

Version: 5.0
Previous version: 4.0

Product: **XPRO1100-Black (a.k.a. Ultracur3D® RG 1100 B)**

(ID no. 30791802/SDS_GEN_EU/EN)

Date of print 31.01.2024

Information on: 4-(1,1-Dimethylethyl)cyclohexyl acrylate

Assessment of sensitization:

Caused skin sensitization in animal studies.

Information on: Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide

Experimental/calculated data:

Mouse Local Lymph Node Assay (LLNA) mouse: skin sensitizing (OECD Guideline 429)

Germ cell mutagenicity

Assessment of mutagenicity:

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

Carcinogenicity

Assessment of carcinogenicity:

None of the components in this product at concentrations greater than 0.1% are listed by IARC; NTP, OSHA or ACGIH as a carcinogen.

Reproductive toxicity

Assessment of reproduction toxicity:

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

Information on: Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide

Assessment of reproduction toxicity:

The results of animal studies suggest a fertility impairing effect.

Developmental toxicity

Assessment of teratogenicity:

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

Information on: Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide

Assessment of teratogenicity:

Indications of possible developmental toxicity/teratogenicity were seen in animal studies.

Specific target organ toxicity (single exposure)

Assessment of STOT single:

Causes temporary irritation of the respiratory tract.

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

Assessment of repeated dose toxicity:

Repeated exposure may affect certain organs.

Information on: 2-Propen-1-one, 1-(4-morpholinyl)-

BASF safety data sheet. This document has been drafted following generic rules for safety data sheets. It does not replace the safety data sheet provided according to Regulation (EC) No 1907/2006.

Date / Revised: 23.06.2023

Version: 5.0

Date previous version: 10.02.2023

Previous version: 4.0

Date / First version: 05.10.2021

Product: **XPRO1100-Black (a.k.a. Ultracur3D® RG 1100 B)**

(ID no. 30791802/SDS_GEN_EU/EN)

Date of print 31.01.2024

Assessment of repeated dose toxicity:

Repeated exposure may affect certain organs. EU-classification

Aspiration hazard

No aspiration hazard expected.

Interactive effects

No data available.

11.2. Information on other hazards

Endocrine disrupting properties

Product does not contain a substance above legal limits included in the list established in accordance with Article 59(1) of Regulation (EC) No 1907/2006 for having endocrine disrupting properties or is identified to have endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

Other information

Other relevant toxicity information

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

SECTION 12: Ecological Information

12.1. Toxicity

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.

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

Assessment of aquatic toxicity:

Acutely toxic for aquatic organisms. Toxic to aquatic organisms based on long-term (chronic) toxicity study data.

Information on: 4-(1,1-Dimethylethyl)cyclohexyl acrylate

Assessment of aquatic toxicity:

Very toxic (acute effect) to aquatic organisms. Toxic to aquatic organisms based on long-term (chronic) toxicity study data. The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations.

BASF safety data sheet. This document has been drafted following generic rules for safety data sheets. It does not replace the safety data sheet provided according to Regulation (EC) No 1907/2006.

Date / Revised: 23.06.2023
 Date previous version: 10.02.2023
 Date / First version: 05.10.2021

Version: 5.0
 Previous version: 4.0

Product: **XPRO1100-Black (a.k.a. Ultracur3D® RG 1100 B)**

(ID no. 30791802/SDS_GEN_EU/EN)

Date of print 31.01.2024

Information on: diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide

Assessment of aquatic toxicity:

Acutely toxic for aquatic organisms. The chronic aquatic risk classification is based on acute aquatic toxicity study data and the environmental fate properties of the product. The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations.

Information on: acrylic acid

Assessment of aquatic toxicity:

Very toxic (acute effect) to aquatic organisms. The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations. Toxic to aquatic organisms based on long-term (chronic) toxicity study data.

12.2. Persistence and degradability

Assessment biodegradation and elimination (H₂O):

Not readily biodegradable (by OECD criteria). The product has not been tested. The statement has been derived from the properties of the individual components.

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

Assessment biodegradation and elimination (H₂O):

Not readily biodegradable (by OECD criteria).

Information on: 4-(1,1-Dimethylethyl)cyclohexyl acrylate

Assessment biodegradation and elimination (H₂O):

Not readily biodegradable (by OECD criteria).

Information on: diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide

Assessment biodegradation and elimination (H₂O):

Poorly biodegradable. Not readily biodegradable (by OECD criteria).

Information on: acrylic acid

Assessment biodegradation and elimination (H₂O):

Readily biodegradable (according to OECD criteria).

12.3. Bioaccumulative potential

Assessment bioaccumulation potential:

The product has not been tested.

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

Assessment bioaccumulation potential:

Does not accumulate in organisms.

The product has not been tested. The statement has been derived from the structure of the product.

BASF safety data sheet. This document has been drafted following generic rules for safety data sheets. It does not replace the safety data sheet provided according to Regulation (EC) No 1907/2006.

Date / Revised: 23.06.2023
Date previous version: 10.02.2023
Date / First version: 05.10.2021

Version: 5.0
Previous version: 4.0

Product: **XPRO1100-Black (a.k.a. Ultracur3D® RG 1100 B)**

(ID no. 30791802/SDS_GEN_EU/EN)

Date of print 31.01.2024

Information on: 4-(1,1-Dimethylethyl)cyclohexyl acrylate
Assessment bioaccumulation potential:
Significant accumulation in organisms is not to be expected.

Information on: diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide
Assessment bioaccumulation potential:
Does not significantly accumulate in organisms.

Information on: acrylic acid
Assessment bioaccumulation potential:
Does not accumulate in organisms.

12.4. Mobility in soil

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

Information on: 4-(1,1-Dimethylethyl)cyclohexyl acrylate
Assessment transport between environmental compartments:
Volatility: The substance will slowly evaporate into the atmosphere from the water surface.
Adsorption in soil: Adsorption to solid soil phase is expected.

Information on: diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide
Assessment transport between environmental compartments:
Volatility: The substance will not evaporate into the atmosphere from the water surface.
Adsorption in soil: Adsorption to solid soil phase is not expected.

Information on: acrylic acid
Assessment transport between environmental compartments:
Volatility: The substance will not evaporate into the atmosphere from the water surface.
Adsorption in soil: Adsorption to solid soil phase is not expected.

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. Endocrine disrupting properties

Product does not contain a substance above legal limits included in the list established in accordance with Article 59(1) of Regulation (EC) No 1907/2006 for having endocrine disrupting

BASF safety data sheet. This document has been drafted following generic rules for safety data sheets. It does not replace the safety data sheet provided according to Regulation (EC) No 1907/2006.

Date / Revised: 23.06.2023

Version: 5.0

Date previous version: 10.02.2023

Previous version: 4.0

Date / First version: 05.10.2021

Product: **XPRO1100-Black (a.k.a. Ultracur3D® RG 1100 B)**

(ID no. 30791802/SDS_GEN_EU/EN)

Date of print 31.01.2024

properties or is identified to have endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

12.7. Other adverse effects

The product does not contain substances that are listed in Regulation (EC) 1005/2009 on substances that deplete the ozone layer.

12.8. 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:

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. 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:

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.

SECTION 14: Transport Information

Land transport

ADR

UN number or ID number: UN3082

UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (DIMETHYLETHYLCYCLOHEXYL ACRYLATE, TRICYCLODECANE DIMETHANOL DIACRYLATE) STABILIZED

Transport hazard class(es): 9, EHSM

Packing group: III

BASF safety data sheet. This document has been drafted following generic rules for safety data sheets. It does not replace the safety data sheet provided according to Regulation (EC) No 1907/2006.

Date / Revised: 23.06.2023
 Date previous version: 10.02.2023
 Date / First version: 05.10.2021

Version: 5.0
 Previous version: 4.0

Product: **XPRO1100-Black (a.k.a. Ultracur3D® RG 1100 B)**

(ID no. 30791802/SDS_GEN_EU/EN)

Date of print 31.01.2024

Environmental hazards: yes
 Special precautions for user: None known

RID

UN number or ID number: UN3082
 UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (DIMETHYLETHYLCYCLOHEXYL ACRYLATE, TRICYCLODECANE DIMETHANOL DIACRYLATE) STABILIZED

Transport hazard class(es): 9, EHSM
 Packing group: III
 Environmental hazards: yes
 Special precautions for user: None known

Inland waterway transport

ADN

UN number or ID number: UN3082
 UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (DIMETHYLETHYLCYCLOHEXYL ACRYLATE, TRICYCLODECANE DIMETHANOL DIACRYLATE) STABILIZED

Transport hazard class(es): 9, EHSM
 Packing group: III
 Environmental hazards: yes
 Special precautions for user: None known

Transport in inland waterway vessel

Not evaluated

Sea transport

IMDG

UN number or ID number: UN 3082
 UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (DIMETHYLETHYLCYCLOHEXYL ACRYLATE, TRICYCLODECANE DIMETHANOL DIACRYLATE) STABILIZED

Transport hazard class(es): 9, EHSM
 Packing group: III
 Environmental hazards: yes

BASF safety data sheet. This document has been drafted following generic rules for safety data sheets. It does not replace the safety data sheet provided according to Regulation (EC) No 1907/2006.

Date / Revised: 23.06.2023
Date previous version: 10.02.2023
Date / First version: 05.10.2021

Version: 5.0
Previous version: 4.0

Product: **XPRO1100-Black (a.k.a. Ultracur3D® RG 1100 B)**

(ID no. 30791802/SDS_GEN_EU/EN)

Date of print 31.01.2024

Special precautions for user: Marine pollutant: YES
EmS: F-A; S-F

Air transport

IATA/ICAO

UN number or ID number: UN 3082
UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (DIMETHYLETHYLCYCLOHEXYL ACRYLATE, TRICYCLODECANE DIMETHANOL DIACRYLATE) STABILIZED

Transport hazard class(es): 9, EHSM
Packing group: III
Environmental hazards: yes
Special precautions for user: None known

14.1. UN number or ID number

See corresponding entries for "UN number or ID 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. Maritime transport in bulk according to IMO instruments

Maritime transport in bulk is not intended.

BASF safety data sheet. This document has been drafted following generic rules for safety data sheets. It does not replace the safety data sheet provided according to Regulation (EC) No 1907/2006.

Date / Revised: 23.06.2023

Version: 5.0

Date previous version: 10.02.2023

Previous version: 4.0

Date / First version: 05.10.2021

Product: **XPRO1100-Black (a.k.a. Ultracur3D® RG 1100 B)**

(ID no. 30791802/SDS_GEN_EU/EN)

Date of print 31.01.2024

Further information

Product may be shipped as non-hazardous in suitable packages containing a net quantity of 5 L or less under the provisions of various regulatory agencies: ADR, RID, ADN: Special Provision 375; IMDG: 2.10.2.7; IATA: A197; TDG: Special Provision 99(2); 49CFR: §171.4 (c) (2) and also the Special Provision 375 in Appendix B which is regulated in China "Regulations Concerning Road Transportation of Dangerous Goods Part 3: Index of dangerous goods name and transportation requirements" (JT/T 617.3)

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, 75

Directive 2012/18/EU - Control of Major Accident Hazards involving dangerous substances (EU):
List entry in regulation: E2

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

15.2. Chemical Safety Assessment

For a mixture it is not mandatory to include an exposure scenario in the material safety data sheet.

SECTION 16: Other Information

Any other intended applications should be discussed with the manufacturer.

Full text of the classifications, including the hazard classes and the hazard statements, if mentioned in section 2 or 3:

Skin Corr./Irrit.	Skin corrosion/irritation
Eye Dam./Irrit.	Serious eye damage/eye irritation
Skin Sens.	Skin sensitization
STOT SE	Specific target organ toxicity — single exposure
STOT RE	Specific target organ toxicity — repeated exposure
Aquatic Chronic	Hazardous to the aquatic environment - chronic
Acute Tox.	Acute toxicity
Aquatic Acute	Hazardous to the aquatic environment - acute
Repr.	Reproductive toxicity
Flam. Liq.	Flammable liquids
H318	Causes serious eye damage.
H315	Causes skin irritation.

BASF safety data sheet. This document has been drafted following generic rules for safety data sheets. It does not replace the safety data sheet provided according to Regulation (EC) No 1907/2006.

Date / Revised: 23.06.2023

Version: 5.0

Date previous version: 10.02.2023

Previous version: 4.0

Date / First version: 05.10.2021

Product: **XPRO1100-Black (a.k.a. Ultracur3D® RG 1100 B)**

(ID no. 30791802/SDS_GEN_EU/EN)

Date of print 31.01.2024

H317	May cause an allergic skin reaction.
H335	May cause respiratory irritation.
H373	May cause damage to organs through prolonged or repeated oral exposure.
H411	Toxic to aquatic life with long lasting effects.
H319	Causes serious eye irritation.
H302	Harmful if swallowed.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child.
H226	Flammable liquid and vapour.
H314	Causes severe skin burns and eye damage.
H302 + H312 + H332	Harmful if swallowed, in contact with skin or if inhaled.

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, 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.