Safety Data Sheet according to<br/>Regulation (EC) No. 1907/2006<br/>(REACH)Flexcera Base Ultra+Print date29.08.2023Revision date29.08.2023Version2.0

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

1.1 Product identifier

Trade name/designation Flexcera Base Ultra+

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

### **Relevant identified uses**

Sector of uses [SU] Light curing resin for Computer Aided Modeling Devices

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

#### Manufacturer

Envisiontec GmbH Brusseler str., 51 Germany-D45968 Gladbeck Telephone: 49204398750 Telefax: 492043987599 E-mail: info@envisiontec.com Information telephone: 49204398750 Information telefax: 492043987599 www.envisiontec.com

## 1.4 Emergency telephone number

Only available during office hours.

## **SECTION 2: Hazards identification**

## 2.1 Classification of the substance or mixture

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

#### health hazards

Skin Corr. 1A

#### hazard statements for health hazards

H314 Causes severe skin burns and eye damage.

#### health hazards

Skin Sens. 1

#### hazard statements for health hazards

H317 May cause an allergic skin reaction.

#### health hazards Eye Dam. 1

## hazard statements for health hazards

H318 Causes serious eye damage.

## health hazards

Repr. 2

#### hazard statements for health hazards

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

#### **Environmental hazards**

Aquatic Chronic 3

#### hazard statements for environmental hazards

H411 Toxic to aquatic life with long lasting effects.

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) Flexcera Base Ultra+ Print date 29.08.2023 Revision date 29.08.2023 Version 2.0

### 2.2 Label elements

## Labelling according to Regulation (EC) No. 1272/2008 [CLP]

### Hazard components for labelling

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

#### Hazard pictograms



Signal word

#### Danger

#### Hazard statements

#### hazard statements for health hazards

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

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

H314 Causes severe skin burns and eve damage.

#### Hazard statements for environmental hazards

H411 Toxic to aquatic life with long lasting effects.

#### **Precautionary statements**

#### General:

P101 If medical advice is needed, have product container or label at hand. P102 Keep out of reach of children.

#### Prevention

P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P273 Avoid release to the environment. P280 Wear protective gloves/protective clothing/eye protection/face protection.

#### **Response:**

P302 + P352 IF ON SKIN: Wash with plenty of water/. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

#### Storage:

P404 Store in a closed container.

#### Disposal:

P501 Dispose of contents/container to industrial incineration plant.

#### 2.3 Other hazards

#### Other adverse effects

People who suffer from skin sensitization problems, asthma, allergies, chronic or recurring respiratory illnesses should not be deployed in any process using this mixture.

## **SECTION 3: Composition / information on ingredients**

#### Additional information

Full text of H- and EUH-phrases: see section 16.

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) Flexcera Base Ultra+

	Print date Revision date Version	29.08.2023 29.08.2023 2.0
3.1/3.2 Substances/Mixtures		
Hazardous ingredients Methacrylated monomer CAS Proprietary Skin Sens. 1B, H317 / Aquatic Chronic 2, H411	10 - 30 %	
Methacrylic oligomer CAS Proprietary Skin Sens. 1, H317 / Aquatic Chronic 3, H412	25 - 50 %	
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide CAS 75980-60-8 EC 278-355-8 Repr. 2, H361f	0.1 - 1 %	
Methacrylated oligomer CAS Proprietary Skin Irrit. 2, H315 / Skin Sens. 1, H317 / Eye Irrit. 2, H Aquatic Chronic 3, H412	20 - 50 % 1319 /	
Methacrylated monomer CAS Proprietary Acute Tox. 4, H302 / Acute Tox. 3, H311 / Skin Corr. Eye Dam. 1, H318 / STOT SE 3, H335	1 - 10 % 1A, H314 /	

#### **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures

#### General information

Remove contaminated, saturated clothing immediately.

#### Following inhalation

Provide fresh air. If breathing is irregular or stopped, administer artificial respiration.

#### Following skin contact

After contact with skin, wash immediately with plenty of water and soap.

#### After eye contact

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

#### Following ingestion

Do not induce vomiting. If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention.

#### 4.2 Most important symptoms and effects, both acute and delayed No data available

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

## Special treatment

Treat symptomatically

#### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

#### Suitable extinguishing media

Foam

Safety Data Sheet according to<br/>Regulation (EC) No. 1907/2006<br/>(REACH)Flexcera Base Ultra+Print date29.08.2023Revision date29.08.2023Version2.0

#### Extinguishing powder Carbon dioxide (CO2)

## Unsuitable extinguishing media

Strong water jet

## 5.2 Special hazards arising from the substance or mixture

## Hazardous combustion products

In case of fire may be liberated: Carbon monoxide Carbon dioxide (CO2)

## **5.3 Advice for firefighters**

Special protective equipment for firefighters

In case of fire: Wear self-contained breathing apparatus.

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

### Additional information

Clear spills immediately.

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

### For non-emergency personnel

### **Emergency procedures**

Provide adequate ventilation. Remove all sources of ignition.

#### Personal precautions

Use personal protection equipment.

#### For emergency responders

## Personal protection equipment

Use appropriate respiratory protection.

#### 6.2 Environmental precautions

Do not allow to enter into surface water or drains.

## 6.3 Methods and material for containment and cleaning up

#### For containment

## Suitable material for taking up

Sand

Chemical binding agents, containing acids

## 6.4 Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

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

## 7.1 Precautions for safe handling

## Advices on general occupational hygiene

When using do not eat, drink, smoke, sniff. Work in well-ventilated zones or use proper respiratory protection. Avoid contact with skin, eyes and clothes. Remove contaminated, saturated clothing immediately. Wash hands before breaks and after work.

Provide eye shower and label its location conspicuously

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) Flexcera Base Ultra+ Print date Revision date Version

29.08.2023 29.08.2023 2.0

Wash contaminated clothing prior to re-use.

### Protective measures

### Advices on safe handling

Provide room air exhaust at ground level. If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

#### Measures to prevent fire

Keep away from sources of ignition - No smoking. Usual measures for fire prevention. Take precautionary measures against static discharges. When using do not eat, drink, smoke, sniff.

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

### Requirements for storage rooms and vessels

Keep container tightly closed. Keep/Store only in original container. Protect from the action of light. Store at 5 -30 degree C.

#### Hints on joint storage

#### Materials to avoid

Oxidising agent Reducing agent Strong alkali Alcohols

#### Further information on storage conditions

Keep container tightly closed and in a well-ventilated place. Protect containers against damage. Protect against:

UV-radiation/sunlight

#### 7.3 Specific end use(s)

#### Recommendation

Observe technical data sheet.

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

8.1 Control parameters

No data available

#### 8.2 Exposure controls

#### Personal protection equipment

#### Eve/face protection

#### Suitable eye protection

Eye glasses with side protection goggles

#### Skin protection

#### Suitable gloves type **Disposable gloves**

### Suitable material

NBR (Nitrile rubber) Butyl caoutchouc (butyl rubber)

## Unsuitable material

NR (natural rubber, natural latex)

# **Desktop Health**<sup>\*\*</sup>

Safety Data Sheet according to<br/>Regulation (EC) No. 1907/2006<br/>(REACH)Flexcera Base Ultra+Print date29.08.2023Revision date29.08.2023Version2.0

#### **Body protection**

Suitable protective clothing Apron

lab coat

#### **Respiratory protection**

With correct and proper use, and under normal conditions, breathing protection is not required. Respiratory protection necessary at: insufficient ventilation

#### **SECTION 9: Physical and chemical properties**

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

Appearance

Physical state

liquid

#### Colour

opaque Different colors

#### Odour Acrylate

Method - source - remark parameter Melting point/freezing point not determined Boiling point or initial boiling point >100 °C and boiling range flammability not determined Upper explosion limit not determined lower explosion limit not determined Flash point (°C) >150 °C Auto-ignition temperature not determined Decomposition temperature not determined pН not determined not determined Kinematic viscosity Water solubility practically insoluble Soluble (g/L) in Isopropanol not determined Fat solubility Partition coefficient: n-octanol/water not determined Vapour pressure not determined Density and/or relative density 1.06 - 1.12 g/cm<sup>3</sup> Temperature 25 °C not determined Relative vapour density

## **Desktop Health**<sup>™</sup>

#### Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) Flexcera Base Ultra+ Print date 29.08.202

Revision date Version 29.08.2023 29.08.2023 2.0

		parameter	Method - source - remark
particle characteristics			not determined
Dynamic viscosity	500 - 900 mPa*s	Temperature 30 °C	
flow time			not determined
<b>9.2 Other information</b> No data available			

## **SECTION 10: Stability and reactivity**

### 10.1 Reactivity

No hazardous reaction when handled and store to provisions.

#### **10.2 Chemical stability**

The product is stable under storage at normal ambient temperatures.

## 10.3 Possibility of hazardous reactions

Danger of polymerisation with heat evolution in presence of radical forming substances, reducing agents, and/or heavy metals ions.

#### 10.4 Conditions to avoid

In case of light influence: Danger of polymerisation Can polymerize with intensive heat release.

## 10.5 Incompatible materials

Oxidising agent Reducing agent Radical former Peroxides Alkali (lye) Heavy metals

## 10.6 Hazardous decomposition products

Carbon monoxide Carbon dioxide

## **SECTION 11: Toxicological information**

#### Additional information

Product has not been tested. The statement is derived from properties of the components.

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

## Acute toxicity

## Acute dermal toxicity

ingredient Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide Acute dermal toxicity >2000 mg/kg Effective dose LD50: Species: Rat

# **Desktop Health**<sup>\*\*</sup>

Safety Data Sheet according to<br/>Regulation (EC) No. 1907/2006<br/>(REACH)Flexcera Base Ultra+Print date29.08.2023Revision date29.08.2023Version2.0

Version	2
Method OECD 402 ingredient Methacrylated monomer	
Acute dermal toxicity >2000 mg/kg	
Effective dose	
<b>Species:</b> Rat	
ingredient Methacrylated monomer Acute dermal toxicity >1000 mg/kg	
Effective dose LD50:	
<b>Species:</b> Guinea pig	
Acute oral toxicity	
ingredient Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide Acute oral toxicity >5000 mg/kg	
Effective dose LD50:	
<b>Species:</b> Rat	
Method OECD 401	
ingredient Methacrylated monomer Acute oral toxicity >5000 mg/kg	
Effective dose LD50:	
<b>Species:</b> Rat	
Acute oral toxicity >1250 mg/kg	
Effective dose LD50:	
Species: Mouse	
skin corrosion/irritation	
Assessment/classification	
Respiratory or skin sensitisation	
Sensitisation to the respiratory tract	
Assessment/classification May cause sensitization by inhalation and skin contact.	
CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)	)
Reproductive toxicity	

Safety Data Sheet according to<br/>Regulation (EC) No. 1907/2006<br/>(REACH)Flexcera Base Ultra+Print date29.08.2023Revision date29.08.2023Version2.0

#### Assessment/classification

Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide The results of animal studies suggest a fertility impairing effect.

## STOT-single exposure

### **STOT SE 3**

#### Irritation to respiratory tract

#### Assessment/classification

May cause respiratory irritation.

#### 11.2 Information on other hazards

No information available.

#### **SECTION 12: Ecological information**

#### Additional information

Do not allow uncontrolled discharge of product into environment. Do not allow to enter into surface water or drains. The product has not been tested. The statement is derived from the properties of the components.

#### 12.1 Toxicity

#### Aquatic toxicity

#### Acute (short-term) fish toxicity

**ingredient** Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide **Acute (short-term) fish toxicity** 6.53 mg/L

Effective dose

LC50:

Test duration 48 h

#### species

Oryzias latipes (Ricefish) ingredient Methacrylated monomer Acute (short-term) fish toxicity >10 mg/L

### Effective dose

LC50:

Test duration 96 h

#### species

Leuciscus idus (golden orfe)

#### Acute (short-term) toxicity to crustacea

ingredient Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide Acute (short-term) toxicity to crustacea 3.53 mg/L Effective dose EC50 Test duration 48 h species Daphnia magna (Big water flea) Method OECD 202 ingredient Methacrylated monomer Acute (short-term) toxicity to crustacea 1.2 mg/L

# **Desktop Health**<sup>™</sup>

Safety Data Sheet according to<br/>Regulation (EC) No. 1907/2006<br/>(REACH)Flexcera Base Ultra+Print date29.08.2023Revision date29.08.2023Version2.0

## Effective dose

EC50 Test duration 48 h

## species

Daphnia magna (Big water flea)

## Chronic (long-term) toxicity to aquatic invertebrate

ingredient Methacrylated monomer

## Chronic (long-term) toxicity to aquatic invertebrate >0.1 mg/L

Effective dose EC10:

Test duration 21 d

## species

Daphnia magna (Big water flea)

## Acute (short-term) toxicity to algae and cyanobacteria

ingredient Methacrylated monomer

Acute (short-term) toxicity to algae and cyanobacteria 4.4 mg/L

Effective dose ErC50:

Test duration 72 h

#### **species** Desmodesmus subspicatus

## 12.2 Persistence and degradability

## Assessment/classification

The product has not be tested.

## 12.3 Bioaccumulative potential

## Assessment/classification

The product has not be tested.

## 12.4 Mobility in soil

No information available.

## 12.5 Results of PBT and vPvB assessment

The product has not be tested.

## 12.6 Endocrine disrupting properties

No information available.

## 12.7 Other adverse effects

No information available.

## **SECTION 13: Disposal considerations**

## 13.1 Waste treatment methods

## Directive 2008/98/EC (Waste Framework Directive)

## Before intended use

Waste code product 070208 hazardous waste Yes.

## Waste name other still bottoms and reaction residues

# **Desktop Health**<sup>™</sup>

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) Flexcera Base Ultra+ Print date 29.08.2023 Revision date 29.08.2023

Revision date	29.08.2023
Version	2.0

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#### After intended use

Appropriate disposal / Product Dispose of waste according to applicable legislation. Waste code packaging 070208 hazardous waste Yes.

#### Waste name

other still bottoms and reaction residues

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

	Land transpo	rt (ADR/RID)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA- DGR)
14.1 UN number or ID number	3082		3082	3082
14.2 Proper Shipping Name	ENVIRONME HAZARDOUS LIQUID, N.O. (Methacrylate	S SUBSTANCE, .S.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	Environmentally hazardous substance, liquid, n.o.s.
14.3 Class(es)	9		9	9
14.4 Packing group	III		III	III
14.5 Environmental hazards	Yes.		No	Yes.
14.6 Special precautions for user	not applicable	e	not applicable	not applicable
14.7 Maritime transport in bulk according to IMO instruments	not applicable	9	not applicable	not applicable
Additional information - I Hazard label(s) Classification code Limited quantity (LQ) Hazard identification nu (Kemler No.) tunnel restriction code transport category Additional information - S Marine pollutant Additional information - A Limited quantity (LQ)	umber Sea transp	9 M6 5 L 90 - 3 <b>Port (IMDG)</b> Yes.		

#### **SECTION 15: Regulatory information**

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

#### **National regulations**

#### **Further details**

TSCA Inventory list: This product is a medical device and not subject to chemical notification. SARA 311/312 Hazard Categories: Refer to Section 2 for OSHA Hazard Classification. SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Safety Data Sheet according to<br/>Regulation (EC) No. 1907/2006<br/>(REACH)Flexcera Base Ultra+Print date29.08.2023Revision date29.08.2023Version2.0

California Prop. 65 Components: This product does not contain chemicals at levels greater or equal to 0.1 wt% which are known to the state of California to cause cancer.

#### **15.2 Chemical Safety Assessment**

Chemical safety assessments for substances in this mixture were not carried out.

### **SECTION 16: Other information**

#### Additional information

Observe labels and safety data sheets for chemicals used in processing. Notice the directions for use on the label.

#### Relevant R-, H- and EUH-phrases (Number and full text)

H302 Harmful if swallowed.

H311 Toxic in contact with skin.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

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

H411 Toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

#### Key literature references and sources for data

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.