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**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier****Trade name/designation** Photopolymer Photosilver (included Photosilver, RCP130, Photosilver M, RCP130M)**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 EnvisionTec's family Computer Aided Modeling Devices

**1.3 Details of the supplier of the safety data sheet****Supplier (manufacturer/importer/only representative/downstream user/distributor)**

Envisiontec GmbH

Brusseler Str., 51

Germany-D 45968 Gladbeck

P.O. Box:

Telephone: +49204398750

E-mail: info@envisiontec.com

Information telephone: +49204398750

Emergency telephone number: +49204398750

www.envisiontec.com

**1.4 Emergency telephone number****Emergency telephone number**

This number is serviced during office hours.

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**SECTION 2: Hazards identification****Hazards description****Hazard designation:**

This article doesn't contain dangerous substances or preparations intended to be released under normal or reasonably foreseeable conditions of use.

**2.1 Classification of the substance or mixture****Classification according to Regulation (EC) No. 1272/2008 [CLP]****Health hazards****health hazards**

Acute Tox. 4

**hazard statements for health hazards**

H302 Harmful if swallowed.

**health hazards**

Acute Tox. 4

**hazard statements for health hazards**

H332 Harmful if inhaled.

**health hazards**

Skin Irrit. 2

**hazard statements for health hazards**

H315 Causes skin irritation.

### health hazards

Eye Irrit. 2

### hazard statements for health hazards

H319 Causes serious eye irritation.

### health hazards

Skin Sens. 1

### hazard statements for health hazards

H317 May cause an allergic skin reaction.

### health hazards

STOT SE 3

### hazard statements for health hazards

H335 May cause respiratory irritation.

## 2.2 Label elements

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

#### Hazard pictograms



GHS07

#### Signal word

Warning

#### Hazard Statements

##### Hazard statements for health hazards:

H302 Harmful if swallowed.

H332 Harmful if inhaled.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

#### 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.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

##### Storage:

P405 Store locked up.

##### Disposal:

P501.1 Dispose of contents/container to industrial incineration plant.

#### Product identifiers

hexane-1,6-diol diacrylate

Isobornyl acrylate

Titanium Dioxide

### Special rules on packaging

Tactile warning according to EN/ISO 11683.

### Additional information

No information available for acute dermal and inhalative toxicity

## 2.3 Other hazards

### Other hazards

People who suffer from skins problems, asthma, allergies, chronic or recurring respiratory illnesses must not be deployed in processes, which use this substance. Process vapours can irritate airways, skin and eyes.

## SECTION 3: Composition / information on ingredients

### remark

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

### 3.1/3.2 Mixture related information

#### Hazardous ingredients

hexane-1,6-diol diacrylate	1 - 3 %
CAS 13048-33-4	
EC 235-921-9	
INDEX 607-109-00-8	
Skin Irrit. 2, H315 / Eye Irrit. 2, H319 / Skin Sens. 1, H317	
Isobornyl acrylate	10 - 40 %
CAS 5888-33-5	
EC 227-561-6	
Acute Tox. 4, H302 / Acute Tox. 4, H332 / Skin Irrit. 2, H315 / Eye Irrit. 2, H319 / STOT SE 3, H335	
Acrylated oligomer	20 - 60 %
Skin Irrit. 2, H315 / Eye Irrit. 2, H319	
Titanium Dioxide	0.1 - 0.2 %
Acute Tox. 4, H302 / Acute Tox. 4, H312 / Acute Tox. 4, H332 / Skin Irrit. 2, H315 / Eye Irrit. 2, H319 / Resp. Sens. 1, H334 / STOT SE 3, H335	
Acrylated monomer	5 - 20 %
Skin Irrit. 2, H315 / Eye Irrit. 2, H319	
Acrylated monomer	5 - 30 %
Skin Irrit. 2, H315 / Eye Irrit. 2, H319	

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General information

Change contaminated, saturated clothing.

#### Following inhalation

In case of inhalation of decomposition products, affected person should be moved into fresh air and kept still.

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If breathing is irregular or stopped, administer artificial respiration.

**Following skin contact**

Wash immediately with:

Water and soap

**After eye contact**

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

**After ingestion**

If swallowed, immediately drink:

Water. Induce vomiting when the affected person is not unconscious.

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

**Symptoms**

No symptoms known up to now.

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

No data available

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**SECTION 5: Firefighting measures**

**Additional information**

The product itself is not combustible. In case of fire and/or explosion do not breathe fumes.

**5.1 Extinguishing media**

**Suitable extinguishing media**

Carbon dioxide (CO<sub>2</sub>)

Dry extinguishing powder.

Foam

Water spray

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

No data available

**5.3 Advice for firefighters**

**Special protective equipment for firefighters**

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

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**SECTION 6: Accidental release measures**

**Additional information**

Do not use a brush or compressed air for cleaning surfaces or clothing. Clear spills immediately. Eliminate leaks immediately.

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

**For non-emergency personnel**

**Personal precautions**

Wear personal protection equipment. Remove all sources of ignition.

**For emergency responders**

**Personal protection equipment**

Use appropriate respiratory protection.

## 6.2 Environmental precautions

Do not empty into drains or the aquatic environment.

## 6.3 Methods and material for containment and cleaning up

### For containment

### Suitable material for taking up

Absorbing material, organic

Sand

## 6.4 Reference to other sections

No data available

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

#### Advices on general occupational hygiene

When using do not eat, drink, smoke, sniff. Avoid contact with skin, eyes and clothes. Remove contaminated, saturated clothing. Wash contaminated clothing prior to re-use. Wash hands before breaks and after work.

Provide eye shower and label its location conspicuously

#### Protective measures

#### Advices on safe handling

Avoid:

Skin contact

Eye contact

Always close containers tightly after the removal of product.

#### Measures to prevent fire

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames.

#### Environmental precautions

See chapter 8.

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

#### Hints on joint storage

#### Materials to avoid

Materials to avoid

Oxidising agent

Strong alkali

Alcohols

Reducing agent

#### Storage class

No storage class

#### Further information on storage conditions

Keep only in the original container in a cool, well-ventilated place.

Recommended storage temperature:

Protect containers against damage.

### 7.3 Specific end use(s)

No data available

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## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

No data available

### 8.2 Exposure controls

#### Personal protection equipment

##### Eye/face protection

##### Suitable eye protection

Eye glasses with side protection  
goggles

##### Skin protection

##### Skin protection

##### Suitable gloves type

Disposable gloves

##### Suitable material

NBR (Nitrile rubber)

##### Body protection

##### Suitable protective clothing

Lab apron. Lab coat.

##### Respiratory protection

With correct and proper use, and under normal conditions, breathing protection is not required.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### Appearance

##### Physical state

liquid

##### Colour

opaque  
dark grey

##### Odour

Acrylate

	parameter	Method - source - remark
pH	6.8 - 7.2 at °C: 25 °C	
Melting point/freezing point		No data available
Initial boiling point and boiling range	>100 °C	
Flash point (°C)	>100 °C	
Evaporation rate		No data available
Flammable solids		No data available

	parameter	Method - source - remark
Flammable aerosols		No data available
Upper explosion limit (Vol-%)		No data available
Lower explosion limit (Vol-%)		No data available
Vapour pressure	0.0017 mm Hg at °C: 25 °C	
Density	1.2 - 1.35 g/cm <sup>3</sup> at °C: 25 °C	
Vapour density		No data available
Fat solubility (g/L)		No data available
Water solubility (g/L)		No data available
Soluble (g/L) in		Soluble in: Isopropanol Alcohol
Soluble (g/L) in		Insoluble in:
Partition coefficient: n-octanol/water		No data available
Auto-ignition temperature		No data available
Auto-ignition temperature		No data available
Decomposition temperature		No data available
Explosives		No data available
Oxidising gases		No data available
Oxidising liquids		No data available
Oxidising solids		No data available
Dynamic viscosity	400 - 900 mPa*s at °C: 25 °C	
flow time		No data available
Kinematic viscosity		No data available

## 9.2 Other safety information

No data available

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No data available

### 10.2 Chemical stability

The product is stable under storage at normal ambient temperatures.

### 10.3 Possibility of hazardous reactions

No data available

#### 10.4 Conditions to avoid

In case of light influence:

Danger of polymerisation

#### 10.5 Incompatible materials

##### Materials to avoid

Reacts with :

Oxidizing agents. Reducing agents. Peroxides.

Radical former

#### 10.6 Hazardous decomposition products

Thermal decomposition can lead to the escape of irritating gases and vapours.

Carbon dioxide

Carbon monoxide.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

##### Acute dermal toxicity

**ingredient** Titanium Dioxide

**Acute toxicity, dermal** >10000 mg/kg

##### Effective dose

LD50:

##### Species:

Rat.

**ingredient** Isobornyl acrylate

**Acute toxicity, dermal** >5000 mg/kg

##### Effective dose

LD50:

##### Species:

Rabbit.

##### Acute oral toxicity

**ingredient** Titanium Dioxide

**Acute toxicity, oral** >10000 mg/kg

##### Effective dose

LD50:

##### Species:

Rat.

**ingredient** hexane-1,6-diol diacrylate

**Acute toxicity, oral** >5000 mg/kg

##### Effective dose

LD50:

##### Species:

Rat.

**ingredient** Isobornyl acrylate



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**Acute toxicity, oral** >4890 mg/kg

**Effective dose**

LD50:

**Species:**

Rat.

### Eye damage/irritation

**Assessment/classification**

Irritant. Irritating to eyes. Risk of serious damage to eyes.

**Species:**

Rabbit.

### Respiratory or skin sensitisation

#### Skin sensitisation

**Assessment/classification**

May cause sensitization by inhalation and skin contact.

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## SECTION 12: Ecological information

### 12.1 Toxicity

#### Aquatic toxicity

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

**ingredient** Titanium Dioxide

**Acute (short-term) fish toxicity** >1000 mg/l

**Effective dose**

LC50:

**Test duration** =96 h

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

**ingredient** Titanium Dioxide

**Acute (short-term) toxicity to crustacea** >1000 mg/l

**Effective dose**

EC50

**Test duration** =48 h

**species**

Daphnia magna (Big water flea)

**ingredient** Titanium Dioxide

**Acute (short-term) toxicity to crustacea** >1000 mg/l

**Effective dose**

EC0

**Test duration** =48 h

**species**

Daphnia magna (Big water flea)

### 12.2 Persistence and degradability

No data available

**12.3 Bioaccumulative potential**

**Assessment/classification**

not readily biodegradable (according to OECD criteria)

**12.4 Mobility in soil**

No data available

**12.5 Results of PBT and vPvB assessment**

No data available

**12.6 Other adverse effects**

No data available

**SECTION 13: Disposal considerations**

**13.1 Waste treatment methods**

**Appropriate disposal / Product**

**Appropriate disposal/Product:**

Waste disposal according to official state regulations.

**Appropriate disposal / Package**

**Contaminated packaging:**

Handle contaminated packaging in the same way as the substance itself.

**Waste code packaging** 070208

**Waste requires special monitoring:** Yes.

**Waste name**

other still bottoms and reaction residues

**Waste code product** 070208

**Waste requires special monitoring:** Yes.

**Waste name**

other still bottoms and reaction residues

**SECTION 14: Transport information**

	Land transport (ADR/RID)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1 UN-No.	not applicable	not applicable	not applicable
14.2 Proper Shipping Name			
14.3 Class(es)			
14.4 Packing group			
14.5 ENVIRONMENTALLY HAZARDOUS			
14.6 Special precautions for user			
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code			

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**remark - Land transport (ADR/RID)**

No dangerous good in sense of this transport regulation.

**remark - Air transport (ICAO-TI / IATA-DGR)**

Not a hazardous material with respect to these transportation regulations.

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**SECTION 15: Regulatory information**

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

No data available

**15.2 Chemical Safety Assessment**

Irritant

Harmful

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**SECTION 16: Other information**

**Additional information**

**Further remarks:**

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)**

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

H302 Harmful if swallowed.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H312 Harmful in contact with skin.

**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.