

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

### 1.1 Product identifier

Trade name/designation

### 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

#### Importer/Only Representative

Envisiontec GmbH

Brusseler str., 51

Germany-D45968 Gladbeck

Telephone: 49204398750

Telefax: 492043987599

E-mail: info@envisiontec.com

Information telephone: 49204398750

www.envisiontec.com

### 1.4 Emergency telephone number

Only available during office hours.

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## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

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

#### health hazards

Acute Tox. 4

#### hazard statements for health hazards

H302 Harmful if swallowed.

#### health hazards

Skin Irrit. 2

#### hazard statements for health hazards

H315 Causes skin irritation.

#### 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

STOT RE 2

#### hazard statements for health hazards

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

#### Environmental hazards

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## hazard statements for environmental hazards

H411 Toxic to aquatic life with long lasting effects.

## 2.2 Label elements

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

#### Hazard components for labelling

Acrylated monomer

#### Hazard pictograms



GHS07



GHS05



GHS08



GHS09

#### Signal word

Warning

Danger

#### Hazard statements

##### hazard statements for health hazards

H302 Harmful if swallowed.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

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

##### 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.

P264 Wash thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

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

### 3.1/3.2 Substances/Mixtures

#### Hazardous ingredients

CAS Proprietary Skin Sens. 1, H317 / Aquatic Chronic 2, H411	5 - 10 %
CAS Proprietary Skin Irrit. 2, H315 / Skin Sens. 1, H317	50 - 60 %
CAS Proprietary Acute Tox. 4, H302 / Skin Sens. 1B, H317 / Eye Dam. 1, H318 / STOT RE 2, H373	20 - 30 %
CAS Proprietary Skin Sens. 1, H317 / Aquatic Chronic 2, H411	5 - 10 %

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General information

Remove contaminated, saturated clothing immediately.

#### Following inhalation

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

Extinguishing powder

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

#### 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 (CO<sub>2</sub>)

### 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

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.

#### 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

Absorbing material, organic

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

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

#### Advices on general occupational hygiene

Provide eye shower and label its location conspicuously

#### 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.

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## 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 against:

UV-radiation/sunlight

## 7.3 Specific end use(s)

### Recommendation

Observe instructions for use.

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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

##### Suitable gloves type

Disposable gloves

##### Suitable material

NBR (Nitrile rubber)  
Butyl caoutchouc (butyl rubber)

##### Unsuitable material

NR (natural rubber, natural latex)

##### 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

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## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### Appearance

#### Physical state

liquid

**Colour**

opaque  
light yellow

**Odour**

Acrylate

	parameter	Method - source - remark
Evaporation rate		not determined
Melting point/freezing point		not determined
Boiling point or initial boiling point and boiling range	>100 °C	
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
pH		not determined
Soluble (g/L) in		Alcohol
Fat solubility		not determined
Water solubility		practically insoluble
Partition coefficient: n-octanol/water		not determined
Vapour pressure		not determined
Vapour density		not determined
Relative density	1.05 - 1.12 g/cm <sup>3</sup> Temperature 25 °C	
particle characteristics		not determined
Dynamic viscosity	400 - 700 mPa*s Temperature 25 °C	
flow time		not determined
Kinematic viscosity		not determined

**9.2 Other information**

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

##### Materials to avoid

Oxidising agent, strong

Radical former

Peroxides

Alkali (lye)

Heavy metals

#### 10.6 Hazardous decomposition products

Carbon monoxide

Carbon dioxide

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## SECTION 11: Toxicological information

### Additional information

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

#### 11.1 Information on toxicological effects

##### Acute toxicity

**Acute dermal toxicity** >2000 mg/kg

##### Effective dose

LD50:

##### Species:

Rat

##### Method

OECD 402

##### source

Literature

**Acute inhalation toxicity (vapour)** 5.28 mg/kg

##### Effective dose

LC50:

**Exposure time** 4 h

##### Species:

Rat

**Acute oral toxicity** 588 mg/kg

##### Effective dose

LD50:

##### Species:

Rat

##### skin corrosion/irritation

##### Assessment/classification

Irritant.

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## Respiratory or skin sensitisation

### Sensitisation to the respiratory tract

#### Assessment/classification

May cause sensitization by inhalation and skin contact.

### Skin sensitisation

#### Assessment/classification

May cause an allergic skin reaction.

### STOT-repeated exposure

#### STOT RE 1 and 2

### Other information

May cause damage to organs through prolonged or repeated exposure if swallowed.

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## 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** >200 mg/L

##### Effective dose

LC50:

**Test duration** 96 h

##### species

Danio rerio (zebrafish)

**Acute (short-term) toxicity to crustacea** >200 mg/L

##### Effective dose

EC50

**Test duration** 48 h

##### species

Daphnia pulex (water flea)

##### Method

OECD 202

**Acute (short-term) toxicity to algae and cyanobacteria** 120 mg/L

##### Effective dose

EC50

**Test duration** 72 h

#### 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.

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## 12.5 Results of PBT and vPvB assessment

The product has not be tested.

## 12.6 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

##### Appropriate disposal / Package

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

**Waste code product** 070208

**hazardous waste** Yes.

##### Waste name

other still bottoms and reaction residues

##### 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 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	not applicable	not applicable	not applicable
14.3 Class(es)	not applicable	not applicable	not applicable
14.4 Packing group	not applicable	not applicable	not applicable
14.5 ENVIRONMENTALLY HAZARDOUS	not applicable	not applicable	not applicable
14.6 Special precautions for user	not applicable	not applicable	not applicable
14.7 Maritime transport in bulk according to IMO instruments	not applicable	not applicable	not applicable

### Additional information - Land transport (ADR/RID)

#### remark

No dangerous good in sense of this transport regulation.

### Additional information - Sea transport (IMDG)

#### remark

No dangerous good in sense of this transport regulation.

## Additional information - Air transport (ICAO-TI / IATA-DGR)

### remark

No dangerous good in sense of this transport regulation.

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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

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

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## 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, R20 Harmful if swallowed.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H320 Causes eye irritation.

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

H411 Toxic 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.