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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.

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







GHS08



GHS09

GHS07 GHS05

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.



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SECTION 3: Composition / information on ingredients

3.1/3.2 Substances/Mixtures

Hazardous ingredients

CAS Proprietary 5 - 10 %

Skin Sens. 1, H317 / Aquatic Chronic 2, H411

CAS Proprietary 50 - 60 %

Skin Irrit. 2, H315 / Skin Sens. 1, H317

CAS Proprietary 20 - 30 %

Acute Tox. 4, H302 / Skin Sens. 1B, H317 / Eye Dam. 1, H318 /

STOT RE 2, H373

CAS Proprietary 5 - 10 %

Skin Sens. 1, H317 / Aquatic Chronic 2, H411

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 (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:



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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.

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

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.

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

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state

liquid



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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/cm³	Temperature 25 °C	
particle characteristics			not determined
Dynamic viscosity	400 - 700 mPa*s	Temperature 25 °C	
flow time			not determined
Kinematic viscosity			not determined
.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



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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

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.

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

FC50

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 use	r 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.



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

remark

No dangerous good in sense of this transport regulation.

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.

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.