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

1.1 Product identifier

Trade name/designation Photopolymer E-Silicone (included E-Silicone, E-Silicone M)

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-D 45968 Gladbeck Telephone: +49204398750 E-mail: info@envisiontec.com Information telephone: +49204398750 www.envisiontec.com

1.4 Emergency telephone number

This number is serviced during office hours.

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

Additional information

No information available for acute dermal and inhalative toxicity

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

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.

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2.2 Label elements Labelling according to Regulation (EC) No. 1272/2008 [CLP] Hazard components for labelling

hexane-1,6-diol diacrylate

Hazard pictograms



GHS07 Signal word Warning

Hazard statements

hazard statements for health hazards

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye 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. P280 Wear protective gloves/protective clothing/eye protection/face protection.

Disposal:

P501 Dispose of contents/container to .

Product identifiers

hexane-1,6-diol diacrylate

2.3 Other hazards

Other adverse effects

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

Additional information

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

3.1/3.2 Substances/Mixtures

Hazardous ingredients

hexane-1,6-diol diacrylate CAS 13048-33-4 EC 235-921-9 INDEX 607-109-00-8 Eye Irrit. 2, H319 / Skin Irrit. 2, H315 / Skin Sens. 1, H317 1 - 10 %

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Acrylated monomer Skin Irrit. 2, H315 / Eye Irrit. 2, H319	5 - 30	1 %	
BIS(2,6-DIFLUORO-3-(1-HYDROPYRROL-1- YL)PHENYL)TITANOCENE CAS 125051-32-3 EC 412-000-1 INDEX 022-003-00-6 Repr. 2, H361f / STOT RE 2, H373 / Aquatic Chr Flam. Sol. 1, H228		- 0.5 %	
Methacrylated oligomer Skin Irrit. 2, H315 / Eye Irrit. 2, H319	20 - 6	0 %	

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. 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.

Following 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

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 (CO2) Dry extinguishing powder. Foam Water spray

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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.

SECTION 6: Accidental release measures

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

For cleaning up

Suitable material for diluting or neutralizing Water

6.4 Reference to other sections

No data available

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.

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Environmental precautions

See section 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. Protect containers against damage. Protect against:

UV-radiation/sunlight.

storage temperature

Value 10 - 40 °C

7.3 Specific end use(s) No data available

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)

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.

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SECTION 9: Physical and chemical properties 9.1 Information on basic physical and chemical properties Appearance Physical state liquid Colour transparent light red Odour Acrylate Method - source - remark parameter Evaporation rate not determined 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) >100 °C not determined Auto-ignition temperature not determined Decomposition temperature 6.8 - 7.2 Temperature 25 °C pН Soluble in: Soluble (g/L) in Soluble (g/L) in Insoluble in: Fat solubility not determined Water solubility not determined Partition coefficient: n-octanol/water not determined Temperature 25 °C Vapour pressure 0.0018 mm Hg not determined Vapour density 1.08 - 1.12 g/cm³ Temperature 25 °C Relative density particle characteristics not determined Dynamic viscosity 300 - 600 mPa*s Temperature 25 °C flow time not determined Kinematic viscosity not determined

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9.2 Other information

No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

No information available.

10.2 Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3 Possibility of hazardous reactions

No information 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 BIS(2,6-DIFLUORO-3-(1-HYDROPYRROL-1-YL)PHENYL)TITANOCENE Acute dermal toxicity >2000 mg/kg Effective dose LD50: Species: Rat Acute oral toxicity ingredient hexane-1,6-diol diacrylate Acute oral toxicity >5000 mg/kg Effective dose LD50: Species: Rat. ingredient BIS(2,6-DIFLUORO-3-(1-HYDROPYRROL-1-YL)PHENYL)TITANOCENE Acute oral toxicity >2000 mg/kg

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Effective dose

Species: Rat.

Serious eye damage/irritation

In vitro eye test slightly irritant

Species: Rabbit.

Respiratory or skin sensitisation

Skin sensitisation

Assessment/classification

May cause sensitization by inhalation and skin contact.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity

Acute (short-term) fish toxicity

ingredient BIŚ(2,6-DIFLUORO-3-(1-HYDROPYRROL-1-YL)PHENYL)TITANOCENE Acute (short-term) fish toxicity >180 mg/L

Effective dose

LC50:

Test duration 48 h

species

Cyprinus carpio (Common Carp)

Acute (short-term) toxicity to crustacea

ingredient BIS(2,6-DIFLUORO-3-(1-HYDROPYRROL-1-YL)PHENYL)TITANOCENE Acute (short-term) toxicity to crustacea >25 mg/L

Effective dose EC50 Test duration 48 h

species Daphnia magna (Big water flea)

12.2 Persistence and degradability

No information available.

12.3 Bioaccumulative potential

Assessment/classification

not readily biodegradable (according to OECD criteria)

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

No information available.

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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 packaging 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 Waste disposal according to official state regulations. Waste code packaging 070208 hazardous waste Yes.
Wasto namo

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

Not a hazardous material with respect to these transportation regulations.

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

remark

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

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)

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H228 Flammable solid.

H411 Toxic to aquatic life with long lasting effects.

H361f Suspected of damaging fertility.

H373 May cause damage to organs (or state all organs affected, if known) through prolonged or repeated exposure (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).

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.