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Regulation (EC) No. 1907/2006
(REACH)Photopolymer D 3 (including D
3M)Print date21.10.2021
27.07.2015Revision date27.07.2015
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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name/designation Photopolymer D 3 (including D 3M)

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

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

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hazard statements for health hazards

H317 May cause an allergic skin reaction.

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.

H332 Harmful if inhaled.

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.

Disposal:

P501 Dispose of contents/container to industrial incineration plant.

Product identifiers

hexane-1.6-diol diacrvlate Isobornyl acrylate

Special rules on packaging

Tactile warning according to EN/ISO 11683.

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 R-phrases: see section 16.

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3.1/3.2 Substances/Mixtures Hazardous ingredients hexane-1,6-diol diacrylate 5 - 15 % 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 - 3 % Isobornyl acrylate CAS 5888-33-5 EC 227-561-6 Acute Tox. 4, H332 / Skin Irrit. 2, H315 / Eye Irrit. 2, H319 / STOT SE 3, H335 0.1 - 0.2 % **Titanium Dioxide** Acute Tox. 4, H332 / Skin Irrit. 2, H315 / Eye Irrit. 2, H319 / STOT SE 3, H335 Acrylated monomer 5 - 30 % Skin Irrit. 2, H315 / Eye Irrit. 2, H319 10 - 15 % Acrylated monomer Skin Irrit. 2, H315 / Eye Irrit. 2, H319 Acrylated oligomer 20 - 60 % 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. 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

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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 (CO2) Dry extinguishing powder. Foam Water sprav

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

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

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

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Protective measures

Advices on safe handling

Avoid:

Skin contact

Eve 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 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. Recommended storage temperature: Protect containers against damage.

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

Appropriate engineering controls

Structural measures to prevent exposure

Do not use above following temperatures:

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)

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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.

Environmental exposure controls

Instructional measures to prevent exposure

Do not use above following temperatures:

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state

liquid

Colour

white

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)	>100 °C		
Auto-ignition temperature			not determined
Decomposition temperature			not determined
рН	6.8 - 7.2	Temperature 25 °C	
Soluble (g/L) in			Soluble in: Isopropanol Alcohol
Soluble (g/L) in			Insoluble in:
Fat solubility			not determined
Water solubility			not determined
Partition coefficient: n-octanol/wate	r		not determined
Vapour pressure			not determined

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		parameter	Method - source - remark
Vapour density			not determined
Relative density	1.05 - 1.15 g/cm³	Temperature 25 °C	
particle characteristics			not determined
Dynamic viscosity	500 - 800 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 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 Titanium Dioxide Acute dermal toxicity >10000 mg/kg Effective dose LD50:

Species: Rat.

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ingredient Isobornyl acrylate Acute dermal toxicity >5000 mg/kg Effective dose LD50: Species: Rabbit Acute oral toxicity ingredient Titanium Dioxide Acute oral toxicity >10000 mg/kg **Effective dose** LD50: Species: Rat. ingredient hexane-1,6-diol diacrylate Acute oral toxicity >5000 mg/kg **Effective dose** LD50: Species: Rat. ingredient Isobornyl acrylate Acute oral toxicity >4890 mg/kg Effective dose LD50: Species: Rat. Serious eye damage/irritation In vitro eye test 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. **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:

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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 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. 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.

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

remark

Not a hazardous material with respect to these transportation regulations.

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

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.
- H335 May cause respiratory irritation.

H332 Harmful if inhaled.

		NT	EC
			EL

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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.