

CeramixGrey

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

1.1 Product identifier

Trade name/designation CeramixGrey

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 ResiniFy Technology's family Computer Aided Modeling Devices

1.3 Details of the supplier of the safety data sheet Importer/Only Representative

ResiniFy Technology LLC

22350 W. Warren Ave.

Detroit MI 48239 USA

support@ResiniFyTechnology.com

1.810.888 7373

www.ResiniFyTechnology.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** 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

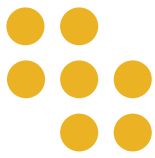
H315 Causes skin irritation.

health hazards

Eye Irrit. 2

hazard statements for health hazards

H319 Causes serious eye irritation.



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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 components for labelling

hexane-1,6-diol diacrylate
Isobornyl acrylate

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 Dispose of contents/container to industrial incineration plant.

Product identifiers hexane-1,6-diol diacrylate



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Isobornyl acrylate
Titanium Dioxide

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 H- and EUH-statements: see section 16.

3.1/3.2 Substances/Mixtures Hazardous ingredients

hexane-1,6-diol diacrylate	1 - 3 %
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	
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

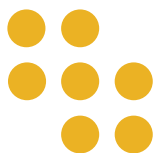
4.1 Description of first aid measures General information

Change contaminated, saturated clothing.

Following inhalation

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

If breathing is irregular or stopped, administer artificial respiration. **Following skin contact**



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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

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.

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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

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 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



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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)

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
dark silver

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

Print date	26.10.2021
Revision date	22.07.2015



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Version 1.3

		parameter	Method - source - remark
Flash point (°C)	>100 °C		
Auto-ignition temperature			not determined
Decomposition temperature			not determined
pH	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/water			not determined
Vapour pressure	0.0017 mm Hg	Temperature 25 °C	
Vapour density			not determined
Relative density	1.2 - 1.35 g/cm ³	Temperature 25 °C	
particle characteristics			not determined
Dynamic viscosity	400 - 900 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 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



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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.

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

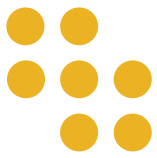
Acute oral toxicity >4890 mg/kg

Effective dose

LD50:

Species:

Rat.



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THE ULTIMATE 3D PRINTING SOLUTION

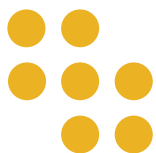
**Safety Data Sheet according to
Regulation (EC) No. 1907/2006**

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Serious eye damage/irritation In vitro eye test

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



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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:

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. Waste name

name

other still bottoms and reaction residues



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SECTION 14: Transport information

	Land transport (ADR/RID)	Sea transport (IMDG)	Air transport (ICAO-TI / IATADGR)
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 - 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.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

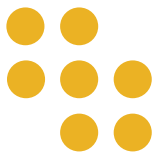
H302 Harmful if swallowed.

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.



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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.