Safety Data Sheet

Report Date

11/12/2022

Last Edit

11/8/2022

Section 1 - Product Information

3D Resin Solutions, LLC. 1610 Shanahan Drive South Elgin, IL 60177

Company Phone (non emergency) (800) 254-0171

American Association of Poison Control Centers:

(800) 222-1222

Product Id # DLPLXC90-1 3D

Trade Name Digital Light Processing

Product Class Liquid Plastic
Product Description 3DRS Studio Clear

HMIS Rating

Personal Protection: G

Section 2 - Hazardous Identification





Signal Word

Warning

Acute-Hazardous to the Aquatic Environment - Category 2

Eye Damge/Irritation - Category 2A

Long Term Hazaedous to the Aquatic Environment - Category 3

Skin Corrosion/Irritation - Category 2

Skin Sensitization - Category 1

STOT-SE - Category 3

Toxic to Reproduction - Category 2

Causes skin irritation.

Causes serious eye irritation.

May cause an allergic skin reaction.

Suspected of damaging fertility or the unborn child.

May cause respiratory irritation.

Toxic to aquatic life.

Harmful to aquatic life with long lasting effects.

IF ON SKIN: Wash with plenty of soap and water. IF INHALED: Remove person to fresh air and keep comfertable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. If exposed or concerned: Get medical advice/attention. If skin irrtation or rash occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing. And wash it before reuse. Store in a well-ventilated place. Keep container tightly closed. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid breathing fumes and vapours. Wash effected areas thoroughly after handling. Use in a well-ventilated area. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wear protective gloves and eye protection. Call a Doctor if you feel unwell. See section (4) of the SDS for first aid instruction. Store in a closed container. Store locked up. Dispose of contents/container in accordance with local regulations.

Section 3 - Composition/Information on Ingredients

Chemical Name	CAS#	%
Acrylated Epoxy, Methacrylates, and/or Urethane Acrylate Oligomers	Trade Secret	45-55%
Phenyl-bis(2,4,6-trimethylbenzoyl)-phosphinoxide	162881-26-7	0.5% - 3.00 %
2,2-bis(acryloyloxymethyl)butyl acrylate	15625-89-5	.5% - 2.5% %

Last Edit

11/8/2022

Monomer Diluent Trade Secret 40 - 60 %

Section 4 - First aid measures

4.1: Description of first aid measures

Immediately remove any clothing soiled by the product. Involve doctor immediately

4.2: After Inhalation

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stable in side position for transportation.

In the case of accidental inhalation of monomers, provide fresh air, rest and warmth.

4.3: After Skin Contact

Immediately wash with water and soap and rinse thoroughly.

Avoid contact with UV - and sunlight.

4.4: After eye Contact

Rinse opened eye for several minutes under running water. Then consult a doctor.

4.5: After Swallowing

Call a doctor immediately. Rinse out mouth and then drink plenty of water

Section 5 - Fire Fighting Measures

5.1: Suitable extinguishing agents:

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Use fire fighting measures that suit the environment.

5.2: For safety reasons unsuitable extinguishing agents:

Water with full jet: Special hazards arising from the substance or mixture

5.3 Advice for fire fighters Protective equipment.

Wear self-contained respiratory protective device. Wear fully protective suit.

Section 6 - Accidental Release Measures

6.1: Personal precautions, protective equipment and emergency procedures:

Ensure adequate ventilation

Keep people at a distance and stay upwind

6.2: Environmental precautions

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/ surface or ground water.

6.3: Methods and material for containment and cleaning up

Absorb with liquid-binding material (Sand, diatomite, acid binders, universal binders, sawdust)

Section 7 - Handling and storage

7.1: Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care

7.2: Information about protection against explosions and fires

Keep ignition sources away - Do not smoke.

Protect from heat.

7.3: Conditions for safe storage

Store in cool, dry conditions in well sealed receptacles.

Protect from heat and direct sunlight.

Store receptacle in a well ventilated area.

Store under lock and key or with access restricted to technical experts or their assistants only. Do not expose to temperatures above 40 degrees Celsius

Report Date

11/12/2022

Last Edit

11/8/2022

Section 8 - Personal Protection

8.1: Personal Protective and Hygienic measures

The usual precautionary measure for handling chemicals should be followed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work

8.2: Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

Use suitable respiratory protective device only when aerosol or mist is formed

8.3: Protection of Hands:

Wear protective gloves suitable for skin protection.

8.4: Eye protection

tightly sealed goggles are recommended

8.5: Body protection:

Impervious protective clothing

Section 9 - Physical and chemical properties.

9.1 General Properties

Boiling Point: > 200°C

Vapor Pressure: (MM HG at 25°C) < 1 Appearance: Viscous solution Odor: Mild acrylate odor. Solubility in water: Insoluble.

WPG: 9.00

Evaporation Rate (n-Butyl Acetate = 1) < 1

Vapor Density (air = 1) > 1

Section 10 - Stability and Reactivity

10.1: Stability and Reactivity

Thermal decomposition / conditions to be avoided:

No decomposition if used and stored according to specifications.

Polymerization occurs when exposed to white light, ultraviolet light or heat.

Mixtures may separate over time, mixture maintenance may be required.

10.2 Incompatible materials

Avoid contact with radical forming initiators, peroxides, strong alkalis or reactive metals to prevent exothermic polymerization.

Section 11 - Toxicological Information

The toxicological information below is listed from the individual raw ingredients in this mixture. They are not representative of the mixture as a whole. This mixture has not been tested for toxicological effects.

· Information on toxicological effects

Available data are listed below; for endpoints not adressed in section 11, no data are available.

(Contd. on page 7)

Page 7/10

Safety Data Sheet

acc. to OSHA HCS

Printing date 08/23/2019 Reviewed V 401 on 08/20/2019

Trade name: DILUENT 17-659

(Contd. of page 6)

49.0

· Acute toxicity:

· Primary irritant effect:

CAS: 66492-51-1 (5-ethyl-1,3-dioxan-5-yl)methyl acrylate

Irritation of skin OECD 404 Skin irritation (rabbit)

irritating

- \cdot on the skin: Irritant to skin and mucous membranes.
- · on the eye: No irritating effect.

11/8/2022

· Sensitization:

Sensitization possible through skin contact.

CAS: 66492-51-1 (5-ethyl-1,3-dioxan-5-yl)methyl acrylate

Dermal OECD 429 (LLNA) skin sensitization (mouse)

sensitizing

- · Additional toxicological information:
- · Carcinogenic categories
- · IARC (International Agency for Research on Cancer)

Substance is not listed.

· NTP (National Toxicology Program)

Substance is not listed.

· OSHA-Ca (Occupational Safety & Dealth Administration)

Substance is not listed.

· Information on toxicological effects

Available data are listed below; for endpoints not adressed in section 11, no data are available.

- · Acute toxicity:
- · LD/LC50 values that are relevant for classification:

CAS: 162881-26-7 phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide

Oral LD50 > 2000 mg/kg (rat)

literature

Dermal LD50 > 2000 mg/kg (rat)

literature

- · Primary irritant effect:
- on the skin: No irritant effect.
- on the eye: No irritating effect.
- · Sensitization: Sensitization possible through skin contact.
- · Additional toxicological information:
- · Carcinogenic categories
- · IARC (International Agency for Research on Cancer) Substance is not listed.
- · NTP (National Toxicology Program)

Substance is not listed.

· OSHA-Ca (Occupational Safety & Delth Administration)

Substance is not listed.

· Mutagenicity studies

CAS: 162881-26-7 phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide

OECD 471 AMES negative Neg/Pos (bacteria)

Information on toxicological effects

Available data are listed below; for endpoints not adressed in section 11, no data are available.

- · Acute toxicity:
- · LD/LC50 values that are relevant for classification:

CAS: 75980-60-8 diphenyl(2,4,6- trimethylbenzoyl)phosphine oxide

Oral LD50 > 5000 mg/kg (rat)

Dermal LD50 > 2000 mg/kg (rat) (OECD 402)

· Primary irritant effect:

CAS: 75980-60-8 diphenyl(2,4,6- trimethylbenzoyl)phosphine oxide

Irritation of skin OECD 404 Skin irritation (rabbit)

nicht reizend

Irritation of eyes OECD 405 Eye irritation (rabbit)

nicht reizend

- · on the skin: No irritant effect.
- · on the eye: No irritating effect.
- · Sensitization:

CAS: 75980-60-8 diphenyl(2,4,6- trimethylbenzoyl)phosphine oxide

Dermal OECD 429 (LLNA) skin sensitization pos (pos/neg) (mouse) sensitizer cat 1B

· Subacute to chronic toxicity:

CAS: 75980-60-8 diphenyl(2,4,6- trimethylbenzoyl)phosphine oxide

reproductive toxicity (rat) (28d/90d repeated dose toxicity)

Assessment of reprotuction toxicity: The results of the animal studies suggest

a fertility impairing effect

- · Additional toxicological information:
- · Carcinogenic categories
- · NTP (National Toxicology Program)

Substance is not listed.

· OSHA-Ca (Occupational Safety & Dealth Administration)

Substance is not listed.

Report Date 11/12/2022

11/8/2022

Last Edit

CAS# 42978-66-5 Acute Toxicity:

Oral: LD50: >5000 mg/kg (rat)

Dermal LD50: >3000 mg/kg (rabbit) Literature Irritation of skin: Skin Irr OECD 404: 1.8 PII 0-8 (rabbit)

CAS# 52408-84-1 Acute Toxicity:

Oral: LD50: >5000 mg/kg (rat) Literature

Irritation of skin: Skin Irr OECD 404: 0.6 PII 0-8 (Rabbit)

Sensitization possible through skin contact.

Dermal: Sensitization OECD 406: Positive Neg/pos (guinea pigs)

This product is a mixture of several different raw materials, and has not been tested for acute, subchronic, and chronic toxicity. The acute toxicity refers information given on the raw material supplier's Safety Data Sheet.

Acute Toxicity:

Eye Effect: May cause eye irritiation.
Skin Effect: May cause skin irritiation.
Oral Effect: Not determined.
Inhalation Effect: Not determined.
Subchronic Effect: Not Determined.
Chronic Toxicity: Not determined.
Reproductive Toxicity: Not Determined

Section 12 - Ecological Information

12.1: Ecological Information

Water hazard class 2 (Self-assessment): Hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

Also poisonous for fish and plankton in water bodies.

Toxic to aquatic organisms

Section 13 - Disposal

13.1: Disposal

Can be incinerated, when in compliance with local regulations.

Disposal must be made according to official regulations.

Section 14 - Transportation Information

14.1: Transportation Information

ADR/RID Class - Not regesterd ADNR Class - Not regesterd IMDG Class - Not regesterd IATA Class - Not regestered

Section 15 - Regulatory Substances

R100 - Section 355 (Extremely hazardous Substances):

To the best of our knowledge, this product does not contain any products listed in reportable Levels.

R101 - Section 313 (Specific toxic chimical listings)

Copper Compounds 5-10%

R102 - TSCA (Toxic Substances Control Act)

Substance is Listed

Substance is Listed: CAS# 42978-66-5

R103 - Proposition 65: Chemicals Known to cause Cancer

Bisphenol A less than 0.0006%

Less than 5% TMPTA CAS# 15625-89-5

Polychlorinated Biphenyls inadvertently generated impurities less than 0.001%

Report Date

11/12/2022

Last Edit 11/8/2022

R104 - Proposition 65: Chemicals known to cause reproductive harm

Less than 0.02% Toluene

Toluene <0.1%Polychlorinated Biphenyls ilnadvertently generated impurities less than 0.001%

R105 - REACH: (SVHC) Substances of Very High Concern:

To the best of our knowledge, this product does not contain any products listed in reportable Levels.

Section 16 - Other Information

16.2 Other Information

The data are based on the current state of our knowledge, and are intended to describe the product with regard to the requirements of safety. The data should not be taken to imply any guarantee of a particular or general specification. It is the responsibility of the user of the product to ensure to his satisfaction that the product is suitable for the intended purpose and method to use. We do not accept responsibility for any harm caused by the use of this information. Furthermore nothing contained herein shall be construed as recommendation to use any product in conflict with existing patents covering any material or its use. In all cases, our general conditions of sale apply.

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