

## **SAFETY DATA SHEET**

### **1. IDENTIFICATION OF THE SUBSTANCE/ THE COMPANY/ UNDERTAKING**

- 1.1 Product Name:** ROXEL3D Model Resin  
**Synonyms:** ROXEL3D Clear, ROXEL3D Ivory, ROXEL3D Grey, ROXEL3D Black, ROXEL3D Green, ROXEL3D Red, ROXEL3D White
- 1.2 Intended Use:** UV curing photopolymer resin for stereolithography 3D printing
- 1.3 Supplier Information:** DIGITAL POLYMERS, LLC.  
17595 Harvard Avenue Ste C #2170  
Irvine California, 92614
- 1.4 Phone number:** 844-416-4288 (during business hours Pacific Standard Time)  
**E-mail:** [support@roxel3d.com](mailto:support@roxel3d.com)  
**Website:** <http://www.roxel3d.com>

### **2. HAZARDS IDENTIFICATION**

#### **2.1 Classification of the product:**

|                   |   |  |
|-------------------|---|--|
| Skin Sensitivity. | 1 | Skin sensitization                             |
| Aquatic Chronic   | 4 | Hazardous to the aquatic environment – chronic |

# ROXEL3D

## 2.2 Label Elements



Signal Word: **WARNING**

## 2.3 Other Hazards

H317 May cause an allergic skin reaction

H413 May cause long lasting harmful effects to the aquatic life.

### Precautionary statements (Prevention):

P280 Wear protective gloves

P261 avoid breathing dust/fumes/gas/mist/vapors/spray

P273 avoid release to the environment

P272 Contaminated work clothing should not be allowed out of the workplace.

P303+P352 IF ON SKIN (or hair): wash with plenty of soap and water

P333+P311 If skin irritation or rash occurs: Call a POISON CENTER or doctor/physician.

P362+P364 Take of contaminated clothing and wash before reuse.

### Precautionary statements (Disposal):

P501 Dispose of contents/container to hazardous or special waste collection point.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Methacrylate ester based monomer and oligomer, colorants, stabilizer and weak photosensitive accelerant.

| HAZARDOUS INGREDIENT(S) | CAS No.     | % w/w  | Classification                          | H&P phrases |
|-------------------------|-------------|--------|---|-------------|
| Methacrylate Oligomers  | Proprietary | > 90.0 | Aquatic 4                               | H413        |
| Photoinitiator          | Proprietary | < 3.0  | Skin Sensitivity 1<br>Aquatic Chronic 4 | H317; H413  |

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## 4. FIRST AID MEASURES

- 4.1 Inhalation:** Remove patient from exposure and to fresh air. Obtain immediate medical attention.
- Skin Contact:** Remove contaminated clothing and other vestment. Wash skin with soap and warm water. If any irritation or other symptoms occur, seek medical attention immediately.
- Eye Contact:** Irrigate with buffered saline eyewash or purified water for a minimum of 15 minutes while holding eyelids apart. After initial irrigation, remove contact lenses if present. Avoid exposure to UV light. Immediately obtain medical attention.
- Ingestion:** Do not induce vomiting. Immediately drink water or milk. Should vomiting occur, continue drinking water or milk. Never give anything by mouth to an unconscious person. Seek medical attention.

## 5. FIRE-FIGHTING MEASURES

- 5.1 Extinguishing media:** Foam, dry chemicals or CO<sub>2</sub>
- 5.2 Special hazards arising from product:** Spontaneous polymerization may occur in high temperatures creating additional heat and gas expansion. Closed containers may rupture under uncontrolled polymerization condition. Vapor or smoke is deemed toxic and should be directed away from responders.
- 5.3 Advice for Firefighters:** Full protective gear and breathing apparatus (SCBA / CABA) strongly advised.

## 6. ACCIDENTAL RELEASE MEASURES

- 6.1 Personal Precautions and Protective Equipment:** Safety glasses with side shields, nitrile gloves and laboratory coat recommended.
- 6.2 Environmental Precautions:** Avoid releases to the environment. Report releases as required by local and national authorities. Use non-combustible absorbent material such as clean sand, earth, diatomaceous earth or non-acidic clay to contain the spill and place into non-absorbent and properly labeled containers appropriate disposal.

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## 7. HANDLING AND STORAGE

### 7.1 Handling Precautions:

Avoid contact with skin, eyes nose and mouth. Wear gloves of a suitable material, ie. non-porous nitrile or neoprene of at least 3 mil thickness. Change gloves frequently when in prolonged exposure. Wear safety glasses with side shields. Avoid high concentrations of vapor, and atomized mist or dust. Wear a respirator mask with a filter of type A or better when exposed to vapor, mist or dust above the occupational safety limit. Use only in well ventilated areas. Keep away from food, drinks and other products intended for human or animal consumption.

### 7.2 Storage:

Store in a dark location that is not below 39 degrees Fahrenheit or (4 degrees Celsius) or above 79 degrees Fahrenheit (26 degrees Celsius). Keep out of reach of children and animals. Keep container closed to prevent water absorption and/or other contaminates from becoming mixed with the product.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Exposure Limits Values:

This product contains no material with occupational exposure limits established by known regulatory agencies.

### 8.2 Exposure Controls:

#### Engineering Controls:

Only use in a well ventilated and climate-controlled environment. Dim or non-ultraviolet light sources recommend.

#### Respiratory Protection

Avoid breathing processing vapor, mist or dust. Use a NIOHS approved respiratory protection equipment appropriate for this material.

#### Eye Protection

Wear tight fitting chemical goggles with side shields. When splashing or misting is likely it is recommended to wear a full-face shield in addition.

#### Skin Protection

Wear glove of an appropriate material. Nitrile or neoprene gloves of 3 mil or better strongly recommended. Change glove frequently during prolonged exposure. When splashing or misting is likely, use of a non-porous apron or lab coat recommended. Always wash hands and exposed skin after handling product.

#### General Environmental Considerations

To prevent cross contamination or contact contamination with unintended surfaces and equipment, work area should be regularly cleaned of drips, spills and films of product.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

|                            |  |
|----------------------------|--|
| Color:                     | Clear to opaque                            |
| Physical state:            | viscous liquid                             |
| Odor:                      | Slightly fruity and ester like             |
| pH:                        | Not applicable                             |
| Boiling point:             | >100°C                                     |
| Melting point:             | Not applicable                             |
| Flash point:               | >93°C                                      |
| Flammable limits (LFL):    | Not applicable                             |
| Auto ignition temperature: | No data available                          |
| Explosive properties:      | Not applicable                             |
| Oxidizing properties:      | Not applicable                             |
| Vapor pressure:            | No data available                          |
| Relative density:          | 1.07-1.15 (water = 1)                      |
| Solubility:                | Good solubility with most organic solvents |
| Water solubility:          | Slightly soluble                           |
| Viscosity:                 | 800-1500 mPa•s                             |

## 10. STABILITY AND REACTIVITY

- 10.1 Stability:** Product has been stabilized and is stable at specified environmental conditions inside of the expiration date. Prolonged exposure to heat and or UV light will cause polymerization.
- 10.2 Conditions to avoid:** Heat, flames, sparks, sunlight, strong UV sources
- 10.3 Hazardous reactions:** None under normal conditions
- 10.4 Incompatible materials:** Strong oxidizers, acids and bases.

## 11. TOXICOLOGICAL INFORMATION

|              |   |
|--------------|---|
| Inhalation   | No data available   |
| Eye contact  | High vapor concentration may cause irritation   |
| Skin contact | May cause sensitizing reaction and or irritation. Repeated or prolonged exposure may cause dermatitis |
| Ingestion    | Low oral toxicity. Ingestion may cause irritation of the gastrointestinal track                       |

## 12. ECOLOGICAL INFORMATION

- 12.1 Environmental Fate & Pathway:** Liquid is toxic to aquatic life. Liquid product has low volatility and is slightly soluble in water. It also has low potential for bioaccumulation.
- 12.2 Environmental Exposure Controls:** Product should never be allowed into sewer or runoff drainage systems

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## 13. DISPOSAL CONSIDERATIONS

### 13.1 Waste Treatment Methods:

Dispose of this product in accordance with all applicable laws and regulations. Incinerate, recycle (fuel blending) or reclaim may be preferred methods when conducted in accordance with federal, state and local regulations.

## 14. TRANSPORT INFORMATION

### 14.1

|         |               |
|---------|---------------|
| UN No.: | Not regulated |
| DOT     | Not regulated |
| TDG     | Not regulated |
| IATA    | Not regulated |
| IMDG    | Not regulated |
| ADR     | Not regulated |

## 15. REGULATORY INFORMATION

### 15.1 Safety, health & environmental regulations/legislation Chemical safety assessment

California Prop 65

This product does not contain any Prop 65 chemicals

US Right-To-Know Regulations

This product does not contain any substances regulated by SARA Title III right-to-know regulations

## 16. OTHER INFORMATION

### 16.1 Last revision of document

12-15-2017