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**BioMed Black Resin** 

## **SECTION 1: Identification**

#### **Product identifier**

Product name: BioMed Black Resin

Product code: FLBMBL01

#### Recommended use of the product and restriction on use

**Relevant identified uses:** For use in Formlabs SLA Printers **Uses advised against:** Not determined or not applicable.

Reasons why uses advised against: Not determined or not applicable.

## Manufacturer or supplier details

## Manufacturer:

**United States** 

Formlabs Ohio, Inc 27800 Lemoyne Rd. Suite O Millbury, Ohio 43447 +1 419-837-9783 sds@formlabs.com

#### **Emergency telephone number:**

1-800-424-9300 (24/7)

## Medical Emergency telephone number:

13 11 26 (24/7)

## SECTION 2: Hazard(s) identification

#### **GHS** classification:

Skin irritation, category 2 Eye irritation, category 2A Skin sensitization, category 1

Specific target organ toxicity - single exposure, category 3, respiratory tract irritation

#### **Label elements**

## Hazard pictograms:



Signal Word: Warning

#### **Hazard statements:**

H315 Causes skin irritation

H319 Causes serious eye irritation

H317 May cause an allergic skin reaction

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H335 May cause respiratory irritation

## **Precautionary statements:**

P264 Wash skin thoroughly after handling

P280 Wear face protection

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray

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

P271 Use only outdoors or in a well-ventilated area

P302+P352 IF ON SKIN: Wash with plenty of soap and water

P332+P313 If skin irritation occurs: Get medical advice/attention

P362 Take off contaminated clothing and wash before reuse

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P337+P313 If eye irritation persists: Get medical advice/attention

P333+P313 If skin irritation or rash occurs: Get medical advice/attention

P363 Wash contaminated clothing before reuse

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

P403+P233 Store in a well-ventilated place. Keep container tightly closed

P405 Store locked up

P501 Dispose of contents/container in accordance with local/regional/national regulations

#### Hazards not otherwise classified:

None

## **SECTION 3: Composition and information on ingredients**

| Identification         | Name  | Weight % |
|------------------------|---|----------|
| CAS number: 41637-38-1 | Bisphenol A dimethacrylate                      | 50-70    |
| CAS number: 72869-86-4 | Urethane dimethacrylate                         | 25-45    |
| CAS number: 868-77-9   | 2-hydroxyethyl methacrylate                     | 7-10     |
| CAS number: 7631-86-9  | Silicon dioxide (amorphous)                     | 4-7      |
| CAS number: 84434-11-7 | Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate | <2       |

**Additional Information: None** 

## **SECTION 4: First aid measures**

## **Description of first aid measures**

#### **General notes:**

Show this Safety Data Sheet to the doctor in attendance.

## After inhalation:

If inhaled, remove person to fresh air and place in a position comfortable for breathing. Keep person at

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rest. If breathing is difficult, administer oxygen. If breathing has stopped, provide artificial respiration. If experiencing respiratory symptoms, seek medical advice/attention.

## After skin contact:

Remove contaminated clothing and shoes. Rinse skin with copious amounts of water [shower] for several minutes. Launder contaminated clothing before reuse. If symptoms develop or persist, seek medical advice/attention.

## After eye contact:

Rinse eyes with plenty of water for several minutes. Remove contact lenses if present and easy to do so. Protect unexposed eye. If symptoms develop or persist, seek medical advice/attention.

## After swallowing:

If swallowed, DO NOT induce vomiting unless told to do so by a physician or poison control center. Rinse mouth with water. Never give anything by mouth to an unconscious person. If spontaneous vomiting occurs, place on the left side with head down to prevent aspiration of liquid into the lungs. If symptoms develop or persist, seek medical advice/attention.

## Most important symptoms and effects, both acute and delayed

## **Acute symptoms and effects:**

Skin contact may result in redness, pain, burning and inflammation.

Dermal exposure may cause an allergic skin reaction. Symptoms may include irritation, redness, pain, rash, inflammation, itching, burning and dermatitis.

Inhalation may have adverse effects on the respiratory tract. Symptoms may include cough, breathing difficulties, sore throat and inflammation of the mucous membrane lining the respiratory tract.

Eye contact may result in irritation, redness, pain, inflammation, itching, burning and tearing.

## **Delayed symptoms and effects:**

Effects are dependent on exposure (dose, concentration, contact time).

## Immediate medical attention and special treatment

## **Specific treatment:**

If respiratory symptoms persist, seek medical attention.

#### Notes for the doctor:

Treat symptomatically.

## **SECTION 5: Fire fighting measures**

#### **Extinguishing media**

## Suitable extinguishing media:

Water mist/fog, carbon dioxide, dry chemical or alcohol resistant foam.

## Unsuitable extinguishing media:

Do not use water jet.

## Specific hazards during fire-fighting:

Thermal decomposition may produce irritating/toxic fumes/gases.

## Special protective equipment for firefighters:

Not determined or not applicable.

## Special precautions:

Avoid contact with skin, eyes, hair and clothing. Do not breathe fumes/gas/mists/aerosols/vapors/dusts. Move containers from fire area if safe to do so. Use water spray/fog for cooling fire exposed containers.

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Avoid unnecessary run-off of extinguishing media which may cause pollution.

#### **SECTION 6: Accidental release measures**

## Personal precautions, protective equipment and emergency procedures:

Evacuate unnecessary personnel. Ventilate area. Extinguish any sources of ignition. Wear recommended personal protective equipment (see Section 8). Avoid contact with skin, eyes and clothing. Avoid breathing mist, vapor, dust, fume and spray. Do not walk through spilled material. Wash thoroughly after handling.

## **Environmental precautions:**

Prevent further leakage or spillage if safe to do so. Prevent from reaching drains, sewers and waterways. Discharge into the environment must be avoided.

## Methods and material for containment and cleaning up:

Do not touch damaged containers or spilled material unless wearing appropriate personal protective clothing. Stop leak if you can do it without risk. Contain and collect spillage and place in suitable container for future disposal. Dispose of in accordance with all applicable regulations (see Section 13).

#### Reference to other sections:

For personal protective equipment see Section 8. For disposal see Section 13.

## SECTION 7: Handling and storage precautions

## Precautions for safe handling:

Use appropriate personal protective equipment (see Section 8). Use only with adequate ventilation. Avoid breathing mist/vapor/spray/dust. Do not eat, drink, smoke, or use personal products when handling chemical substances. Avoid contact with skin, eyes and clothing. Wash affected areas thoroughly after handling. Keep away from incompatible materials (See Section 10). Keep containers tightly closed when not in use.

#### Conditions for safe storage, including any incompatibilities:

Store in cool, dry, well-ventilated location out of direct sunlight. Keep away from food and beverages. Protect from freezing and physical damage. Store away from heat, open flames and other sources of ignition. Keep container tightly sealed. Store away from incompatible materials (See Section 10).

#### SECTION 8: Exposure controls and personal protection

Only those substances with limit values have been included below.

## Occupational Exposure limit values:

| Country (Legal Basis) | Substance                   | Identifier | Permissible concentration   |
|-----------------------|-----------------------------|------------|---|
| Australia             | Silicon dioxide (amorphous) | 7631-86-9  | 8-Hour TWA: 10 mg/m³ (Silica amorphous, precipitated silica, & silica gel)              |
|                       | Silicon dioxide (amorphous) | 7631-86-9  | 8-Hour TWA: 2 mg/m³ (inhalable dust containing no asbestos and < 1% crystalline silica) |

## **Biological limit values:**

No biological exposure limits noted for the ingredient(s).

#### Information on monitoring procedures:

Not determined or not applicable.

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## **Appropriate engineering controls:**

Emergency eye wash stations and safety showers should be available in the immediate vicinity of use or handling. Provide adequate ventilation to maintain the airborne concentrations of vapor, mists, and/or dusts below the applicable workplace exposure limits, while observing recognized national standards (or equivalent).

## Personal protection equipment

## Eye and face protection:

Safety glasses or goggles. Use eye protection equipment that has been tested and approved by recognized national standards (or equivalent).

## Skin and body protection:

Chemical resistant, impervious gloves approved by the appropriate standards. Gloves must be inspected prior to use. Avoid skin contact with used gloves. Appropriate techniques should be used to remove used gloves and contaminated clothing. Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Ensure that all personal protective equipment is approved by recognized national standards (or equivalent).

#### **Respiratory protection:**

If engineering controls do not maintain airborne concentrations below the applicable workplace exposure limits, or to an acceptable level (if exposure limits have not been established), a respirator approved by recognized national standards (or equivalent) must be worn.

## General hygienic measures:

When handling chemical products, do not eat, drink or smoke. Wash hands after handling, before breaks, and at the end of the workday. Avoid contact with skin, eyes and clothing. Wash contaminated clothing before reuse. Perform routine housekeeping.

#### **SECTION 9: Physical and chemical properties**

## Information on basic physical and chemical properties

| Appearance                         | Black Opaque Liquid              |
|------------------------------------|----------------------------------|
| Odor                               | Characteristic acrylate          |
| Odor threshold                     | Not determined or not available. |
| рН                                 | Not determined or not available. |
| Melting point/freezing point       | Not determined or not available. |
| Initial boiling point/range        | > 100°C                          |
| Flash point (closed cup)           | > 93.5°C                         |
| Evaporation rate                   | Not determined or not available. |
| Flammability (solid, gas)          | Not Flammable                    |
| Upper flammability/explosive limit | Not determined or not available. |
| Lower flammability/explosive limit | Not determined or not available. |
| Vapor pressure                     | Not determined or not available. |
| Vapor density                      | Not determined or not available. |
| Density                            | 1.13 g/cm3                       |
| Relative density                   | Not determined or not available. |
| Solubilities                       | Not determined or not available. |

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| Partition coefficient (n-octanol/water) | Not determined or not available. |
|---|----------------------------------|
| Auto/Self-ignition temperature          | Not determined or not available. |
| Decomposition temperature               | Not determined or not available. |
| Dynamic viscosity                       | 950 cps @ 30°C                   |
| Kinematic viscosity                     | Not determined or not available. |
| Explosive properties                    | Not determined or not available. |
| Oxidizing properties                    | Not determined or not available. |

## SECTION 10: Stability and reactivity

## **Reactivity:**

Not reactive under recommended handling and storage conditions.

## Chemical stability:

Stable under recommended handling and storage conditions.

## Possibility of hazardous reactions:

Hazardous reactions are not anticipated under recommended conditions of handling and storage.

#### Conditions to avoid:

Incompatible materials.

Avoid storage >38°C (100°F) and exposure to light/direct sunlight and heat

## Incompatible materials:

Strong oxidizing agents.

Polymerization initiators, including peroxides, strong oxidizing agents, alcohols, copper, copper alloys, carbon steel, iron, rust, and strong bases.

## **Hazardous decomposition products:**

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## **SECTION 11: Hazard information**

## Acute toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data:

| Name  | Route      | Result                      |
|---|------------|-----------------------------|
| 2-hydroxyethyl methacrylate                     | oral       | LD50 Rat: 5564 mg/kg        |
| Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate | oral       | LD50 Rat: >5000 mg/kg       |
| Urethane dimethacrylate                         | oral       | LD50 Rat: >5000 mg/kg       |
|   | dermal     | LD50 Rat: >2000 mg/kg       |
| Silicon dioxide (amorphous)                     | oral       | LD50 Rat: > 5000 mg/kg      |
|   | dermal     | LD50 Rat: > 5000 mg/kg      |
|   | inhalation | LC50 Rat: > 58.8 mg/L (4hr) |

## Skin corrosion/irritation

## **Assessment:**

Causes skin irritation.

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## **BioMed Black Resin**

## Product data: No data available. Substance data:

| Name                        | Result                  |
|-----------------------------|-------------------------|
| Bisphenol A dimethacrylate  | Causes skin irritation. |
| 2-hydroxyethyl methacrylate | Causes skin irritation. |

## Serious eye damage/irritation

## **Assessment:**

Causes serious eye irritation.

# **Product data:** No data available.

#### **Substance data:**

| Name                        | Result                         |
|-----------------------------|--------------------------------|
| Bisphenol A dimethacrylate  | Cause serious eye irritation.  |
| 2-hydroxyethyl methacrylate | Causes serious eye irritation. |

## Respiratory or skin sensitization

## **Assessment:**

May cause an allergic skin reaction.

# Product data:

No data available.

#### Substance data:

| Name  | Result                               |
|---|--------------------------------------|
| Bisphenol A dimethacrylate                      | May cause an allergic skin reaction. |
| 2-hydroxyethyl methacrylate                     | May cause an allergic skin reaction. |
| Urethane dimethacrylate                         | May cause an allergic skin reaction. |
| Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate | May cause an allergic skin reaction. |

## Carcinogenicity

**Assessment:** Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data: No data available.

## International Agency for Research on Cancer (IARC):

| Name                        | Classification |
|-----------------------------|----------------|
| Urethane dimethacrylate     | Not Applicable |
| Bisphenol A dimethacrylate  | Not Applicable |
| Silicon dioxide (amorphous) | Group 3        |

National Toxicology Program (NTP): None of the ingredients are listed.

## Germ cell mutagenicity

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:**No data available.

Substance data: No data available.

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## **BioMed Black Resin**

#### Reproductive toxicity

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:**No data available.

Substance data: No data available.

#### Specific target organ toxicity (single exposure)

#### **Assessment:**

May cause respiratory irritation.

Product data: No data available. Substance data:

| Name                       | Result                            |
|----------------------------|-----------------------------------|
| Bisphenol A dimethacrylate | May cause respiratory irritation. |

## Specific target organ toxicity (repeated exposure)

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:**No data available.

Substance data: No data available.

## **Aspiration toxicity**

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:**No data available.

**Substance data:** No data available.

## Information on likely routes of exposure:

No data available.

## Symptoms related to the physical, chemical and toxicological characteristics:

No data available.

## Other information:

No data available.

## **SECTION 12: Ecological information**

#### Acute (short-term) toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

**Substance data:** 

| Name                    | Result   |
|-------------------------|--|
| Urethane dimethacrylate | Fish LC50 Danio rerio: 10.1 mg/L (96 hr)                     |
|                         | Aquatic Invertebrates EC50 Daphnia magna: > 1.2 mg/L (48 hr) |

## Chronic (long-term) toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

#### **Substance data:**

| Name                    | Result   |
|-------------------------|--|
| Urethane dimethacrylate | Aquatic Plants NOEC Desmodesmus subspicatus: 0.21 mg/L (72 hr) |

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## Persistence and degradability

Product data: No data available.

**Substance data:** 

| Name  | Result   |  |
|---|--|--|
| 2-hydroxyethyl methacrylate                     | This substance is considered readily biodegradable.  |  |
| Urethane dimethacrylate                         | The substance is not readily biodegradable (22% degradation in 28 days).                                 |  |
| Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate | The substance is not readily biodegradable.  |  |
| Bisphenol A dimethacrylate                      | The substance is inherently biodegradable (>24% degradation in 28 days and >60% degradation in 60 days). |  |

## **Bioaccumulative potential**

Product data: No data available.

Substance data:

| Name  | Result   |  |
|---|--|--|
| 2-hydroxyethyl methacrylate                     | This substance has low potential to bioaccumulate.                         |  |
| Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate | This substance is not expected to bioaccumulate because of log Kow (2.91). |  |
| Bisphenol A dimethacrylate                      | The substance is not expected to bioaccumulate (BCF: 7.9 L/Kg).            |  |
| Silicon dioxide (amorphous)                     | BCF: 3.16 L/kg   |  |

## Mobility in soil

Product data: No data available.

**Substance data:** 

| Name  | Result   |
|---|--|
| 2-hydroxyethyl methacrylate                     | This substance has low potential to be adsorbed by the soil.   |
| Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate | This substance is expected to be adsorbed by the soil.   |
| Urethane dimethacrylate                         | The substance has moderate potential to adsorb to organic soil and sediment particles (log Koc: 3.66 dimensionless). |
| Silicon dioxide (amorphous)                     | Mobile (log Koc: 1.337)  |

## Results of PBT and vPvB assessment

#### **Product data:**

**PBT assessment:** This product does not contain any substances that are assessed to be a PBT. **vPvB assessment:** This product does not contain any substances that are assessed to be a vPvB.

# Substance data: PBT assessment:

| 2-hydroxyethyl methacrylate                         | This substance is not PBT. |
|---|----------------------------|
| Urethane dimethacrylate                             | This substance is not PBT. |
| Ethyl phenyl(2,4,6-<br>trimethylbenzoyl)phosphinate | This substance is not PBT. |
| Bisphenol A dimethacrylate                          | The substance is not PBT.  |
| Silicon dioxide (amorphous)                         | This substance is not PBT. |

## vPvB assessment:

| 2-hydroxyethyl methacrylate | This substance is not vPvB. |
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| Urethane dimethacrylate                             | This substance is not vPvB. |
|---|-----------------------------|
| Ethyl phenyl(2,4,6-<br>trimethylbenzoyl)phosphinate | This substance is not vPvB. |
| Bisphenol A dimethacrylate                          | The substance is not vPvB.  |
| Silicon dioxide (amorphous)                         | This substance is not vPvB. |

Other adverse effects: No data available.

## **SECTION 13: Disposal considerations**

## **Disposal methods:**

Do not discharge into public wastewater or surface waters. It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities.

## Contaminated packages:

Dispose contaminated packages in a safe manner in accordance with local and national regulations. Do not allow the product to be released into the environment.

## **SECTION 14: Transport information**

## **Australian Dangerous Goods (ADG)**

| UN number                     | UN 3082   |  |
|-------------------------------|---|--|
| UN proper shipping name       | Environmentally hazardous liquid, N.O.S. Methacrylate Polymer   |  |
| UN transport hazard class(es) | 9   |  |
| Packing group                 | III   |  |
| Environmental hazards         | Marine Pollutant  |  |
| Special precautions for user  | None  |  |
| Additional Information        | This product is not regulated as a dangerous good when transported in sizes of <5L or <5 kg provided the packaging meets the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8. |  |

## **International Maritime Dangerous Goods (IMDG)**

| UN number                     | UN 3082   |  |
|-------------------------------|---|--|
| UN proper shipping name       | Environmentally hazardous liquid, N.O.S. Methacrylate Polymer   |  |
| UN transport hazard class(es) | 9   |  |
| Packing group                 | III   |  |
| Environmental hazards         | Marine Pollutant  |  |
| Special precautions for user  | None  |  |
| Additional Information        | This product is not regulated as a dangerous good when transported in sizes of <5L or <5 kg provided the packaging meets the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8. |  |

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## International Air Transport Association Dangerous Goods Regulations (IATA-DGR)

| UN number                     | UN 3082   |  |
|-------------------------------|---|--|
| UN proper shipping name       | Environmentally hazardous liquid, N.O.S. Methacrylate Polymer   |  |
| UN transport hazard class(es) | 9   |  |
| Packing group                 | III   |  |
| Environmental hazards         | Marine Pollutant  |  |
| Special precautions for user  | None  |  |
| Additional Information        | This product is not regulated as a dangerous good when transported in sizes of $\leq 5L$ or $5\leq kg$ provided the packaging meets the general provisions of $5.0.2.4.1$ , $5.0.2.6.1$ and $5.0.2.8$ . |  |

| Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code |      |  |
|---|------|--|
| Bulk Name   | None |  |
| Ship type   | None |  |
| Pollution category  | None |  |

## **SECTION 15: Regulatory information**

## Australia regulations

## Australian Inventory of Chemical Substances (AICS):

| 41637-38-1 | Bisphenol A dimethacrylate                      | Listed        |
|------------|---|---------------|
| 868-77-9   | 2-hydroxyethyl methacrylate                     | Listed        |
| 72869-86-4 | Urethane dimethacrylate                         | Listed        |
| 84434-11-7 | Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate | Not<br>Listed |
| 7631-86-9  | Silicon dioxide (amorphous)                     | Listed        |

## Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP):

| Ingredient Name                                 | CAS        | Schedules      |
|---|------------|----------------|
| Bisphenol A dimethacrylate                      | 41637-38-1 | Not Applicable |
| 2-hydroxyethyl methacrylate                     | 868-77-9   | 5              |
| Urethane dimethacrylate                         | 72869-86-4 | Not Applicable |
| Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate | 84434-11-7 | 4              |
| Silicon dioxide (amorphous)                     | 7631-86-9  | Not Applicable |

Additional information: Not determined.

## **SECTION 16: Other information**

**Abbreviations and Acronyms: None** 

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**End of Safety Data Sheet**