

# SAFETY DATA SHEET

## SECTION 1. IDENTIFICATION

Great Lakes Dental Technologies, Ltd  
200 Cooper Ave  
Tonawanda, NY 14150

716-871-1161  
800-828-7626  
CHEMTREC: 800-424-9300

**Product Name:** Product Biocryl XR Kit – Monomer  
**Number:** 048-002

Effective Date: 8/22/23

## SECTION 2. HAZARDOUS IDENTIFICATION

### Physical Hazards:

**Class** – Flammable Liquid

**Category** – Category 2

**H-Code** – H225

### Health Hazard:

#### **Class**

Skin Corrosion / Irritation

Skin Sensitization

Specific Target Organ Toxicity – Single Exposure – Respiratory

#### **Category**

Category 2

Category 1

Category 3

#### **H-Code**

H315

H317

H335

### Environment Hazards:

**Class** – Not classifiable (None)

**Category** – N/A

**H-Code** – N/A

### OSHA Defined Hazards:

Not classifiable (None)

### Pictograms



### Signal Word

**Danger**

### SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Hazardous Components</u>	<u>CAS #</u>	<u>ACGIH TLV</u>
Methyl Methacrylate Monomer	80-62-6	100 ppm

### SECTION 4. FIRST AID MEASURES

#### **Eye Contact**

Flush with water for 15 minutes.

#### **Skin Contact**

Wash with soap and water.

#### **Inhalation**

Remove to fresh air.

#### **Ingestion**

Do not induce vomiting.

### SECTION 5. FIRE FIGHTING MEASURES

#### **Suitable Extinguishing Media**

Water fog, Dry chemical, Chemical Foam, Carbon Dioxide (CO<sub>2</sub>)

#### **Special Fire Fighting Procedures**

Fight fires from safe distance or protected areas. Cool containers of material exposed to heat with cold spray.

#### **Unusual Fire / Explosion Hazards**

Sealed containers exposed to elevated temperatures may rupture explosively due to polymerization. Vapors are heavier than air.

### SECTION 6. ACCIDENTAL RELEASE MEASURES

#### **Spill and Leak Procedures**

Eliminate ignition sources. Wear an approved respirator for high vapor concentration. Absorb spills with inert material. Transfer to a suitable container.

### SECTION 7. HANDLING & STORAGE

#### **Handling / Storage Precautions**

Regulations related to storage of flammable liquids should be followed. Permit air space to exist inside containers.

#### **Further Info on Storage Conditions**

None.

## SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### **Industrial Hygiene**

Follow good laboratory practices.

### **Ventilation Measures**

Keep concentration below 100 ppm. Explosion proof exhaust at point of operations.

### **Respiratory Protection**

When vapors exceed 100ppm, use self-contained breathing apparatus.

### **Hand Protection**

Wear impervious, neoprene-type gloves.

### **Eye Protection**

Wear splash proof goggles.

### **Additional Protective Measures**

Eyewash, safety shower, coveralls, and overshoes.

## SECTION 9. PHYSICAL & CHEMICAL PROPERTIES

- **Form** – Liquid
- **Color** – Colorless
- **Odor** – Characteristic acid acrylic odor
- **Boiling Point** – 760 mm/Hg (approximately 214 °F)
- **Flash Point** - 50 °F (TCC)
- **Flammable Limits** – 77 °F, 1 ATM
- **Lower Explosion Limit** – 2.1
- **Upper Explosion Limit** – 12.5
- **Vapor Pressure** – (mmHg) – 29 (20 °C)
- **Solubility in Water** – g/100 g, 68 °F 1.6
- **Vapor Density (AIR-1)** - 60 °F, 1 ATM (Approximately 3.0)
- **Specific Gravity** – (H<sub>2</sub>O – 1) - .095 (60 ° F)
- **Melting Point** – 54 °C
- **Evaporation Rate (Butyl Acetate – 1)** – 3.00

## SECTION 10. STABILITY & REACTIVITY

**Hazardous Reactions** – Hazardous polymerization may occur.

**Stability** – Stable

**Materials to Avoid** – Reducing and oxidizing agents.

**Conditions to Avoid** – Temperatures above 90 °F. Heat and ignition sources. Contamination with foreign materials.

**Hazardous Decomposition Products** – Not available.

## SECTION 11. TOXICOLOGICAL INFORMATION

Not available.

**SECTION 12. ECOLOGICAL INFORMATION (non-mandatory)**

Not applicable

**SECTION 13. DISPOSAL CONSIDERATIONS (non-mandatory)**

Dispose of in accordance with Federal, State, and local regulations.

**SECTION 14. TRANSPORT INFORMATION (non-mandatory)**

Flammable liquid, hazard class 3, packing group II (DOT)

**SECTION 15. REGULATORY INFORMATION (non-mandatory)**

SARA 313 – Extremely hazardous, acute and chronic health, fire hazard.

**SECTION 16. OTHER INFORMATION (non-mandatory)**

HMIS Rating:

- **Health** – 2
- **Flammability** – 3
- **Reactivity** – 2

0 = Minimal, 1 = Slight, 2 = Moderate, 3 = Serious, 4 = Severe

\* = Chronic Health Hazard

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Great Lakes Dental Technologies, Ltd  
200 Cooper Ave  
Tonawanda, NY 14150

716-871-1161  
800-828-7626  
CHEMTREC:800-424-9300

Product Name **Biocryl Polymer, Biocryl XR Kit and Biocryl X Kit**

Product Numbers: 048-004    Kits: 048-002,    048-002

Effective Date: 8/22/23

## 2. HAZARDS IDENTIFICATION

### Classification of the substance or mixture

Skin sensitization	1
Eye irritation	2B

**Signal word**      Warning

**Hazard statements**    H317 May cause an allergic skin reaction.  
H320 Causes eye irritation



**Physical State**      Powder                      **Appearance**      Fine, white                      **Odor**      Faint odor in bulk

### Precautionary Statements – Prevention

- P261 Avoid breathing dust, fumes, gas, mist, vapors or spray.
- P264 Wash hands and exposed skin thoroughly after handling.
- P272 Contaminated work clothing should not be allowed out of the workplace.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.

### Precautionary Statements – Response

- P302+P352 IF ON SKIN: Wash with soap and water.
- P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
- P363 Wash contaminated clothing before reuse.
- P305+P351 IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.
- +P338      easy to do – continue rinsing.
- P337+P313 If eye irritation persists, get medical advice/attention.

### Precautionary Statements – Disposal

- P501 Dispose of contents/container to an approved waste disposal plant.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight - %	Trade Secret
Polymer	9011-14-7	< 99	*
Triphenylbismuth	603-33-8	< 10	*

\*Specific chemical weight has been withheld as a trade secret.

### 4. FIRST AID MEASURES

#### First aid measures

<b>Inhalation</b>	Remove to fresh air. Get medical attention if discomfort persists.
<b>Eye contact</b>	Rinse immediately with plenty of water, including under the eyelids, for at least 15 minutes. If irritation persists, get medical advice / attention.
<b>Ingestion</b>	Do NOT induce vomiting. Drink plenty of water or milk immediately. If vomiting, continue to offer water or milk. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately and provide an estimate of when and how much material was ingested.
<b>Skin Contact</b>	Wash with soap and water. If irritation persists, call a physician. Take off contaminated clothing and wash before reuse.

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

**Symptoms** Skin contact may aggravate an existing dermatitis. Direct contact with eyes may cause temporary irritation.

#### Indication of any immediate medical attention and special treatment needed

**Note to physicians** Treat symptomatically.

### 5. FIRE-FIGHTING MEASURES

#### Extinguishing Media

**Suitable:** Chemical (alcohol-resistant) foam, dry chemical, or carbon dioxide (CO<sub>2</sub>).

**Unsuitable:** Water may not be effective in extinguishing this fire.

#### Specific hazards arising from the chemical

For bulk size: Polymers are combustible dusts, care should be taken to avoid creating explosive concentrations in the air. Follow grounding and bonding procedures.

#### Special Fire Fighting Procedures:

Avoid extinguishing methods, which may generate dust clouds. Water stream can disperse dust into air producing a fire hazard and possible explosion hazard if exposed to ignition source. Firefighters should wear self-contained breathing apparatus.

#### Protective equipment and precautions for firefighters

For bulk size: Polymer dust is combustible. The explosive limits of the polymer particles suspended in air are approximately those of coal dust. Polymers are sensitive to static discharge, follow grounding and bonding procedures. Polymers are not sensitive to mechanical impacts.

### 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures

**Personal precautions** Use personal protective equipment as required. Remove any contaminated clothing and wash thoroughly before reuse.

#### Methods and material for containment and clean-up

**Method for containment** Prevent further leakage or spillage if safe to do so. Dike and contain spill with inert material, sand or earth. May contaminate water supply.

**Method for clean-up** Sweep up to avoid slipping hazard. Keep airborne particulates at a minimum when cleaning up spills. Clean up in accordance with all applicable regulations. Wash all affected areas with plenty of warm water and soap.

### 7. HANDLING AND STORAGE

#### Precautions for safe handling

**Advice on safe handling** Use only in well-ventilated areas. Avoid contact with skin, eyes or clothing. Avoid breathing dust. Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly after handling. Do not eat, drink or smoke when using this product.

**Conditions for safe storage, including any incompatibilities**

<b>Storage Conditions</b>	Keep containers tightly closed to prevent water absorption and contamination. Store in a dry, cool and well-ventilated place away from direct sunlight or other sources of light or intense heat. Preferable storage temperature not to exceed 35°C.
<b>Packaging materials</b>	Keep in original container.
<b>Incompatible materials</b>	Strong oxidizing agents

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Appropriate engineering controls** Apply technical measures to comply with the occupational exposure limits. When working with large quantities of product, provide adequate ventilation (e.g. local exhaust ventilation, fans). Ensure that an eyewash station, sink or washbasin is available in case of exposure to eyes. Use good local exhaust at processing equipment, including buffers, sanders, grinders and polishers.

**Individual protection measures, such as personal protective equipment**

**Eye / face protection** Depending on the use of this product, safety glasses or goggles may be worn. If necessary, refer to US OSHA 29 CFR SS1910.133, Canadian standards or the European Standard EN 166. Ensure that an eyewash station, sink or washbasin is available in case of exposure to eyes.

**Skin and body protection** If anticipated that prolonged and repeated skin contact will occur during use of this product, wear gloves for routine industrial use. If necessary, refer to US OSHA 29 CFR SS1910.138 or the appropriate standards of Canada or the EC member states.

**Respiratory protection** No special respiratory protection is required under typical circumstances of use or handling. If necessary, use only respiratory protection authorized per US OSHA requirement in 29 CFR SS 1910.134, or applicable US state regulations, or the appropriate standards of Canada, its provinces, EC member states or Australia. VENTILATION: Local exhaust at processing equipment.

**General hygiene considerations** Handle in accordance with good industrial hygiene and safety practice.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**Information on basic physical and chemical properties**

<b>Physical state</b>	Powder	<b>Odor</b>	Faint odor in bulk
<b>Appearance</b>	Fine		
<b>Color</b>	White		

<b>Property</b>	<b>Values</b>	<b>Remarks / Method</b>
<b>Boiling point / boiling range</b>	Not applicable	
<b>Flash point</b>	304°C / 579°F	
<b>Flammability limits in air</b>		
Upper flammability limit	Not applicable	
Lower flammability limit	Not applicable	
<b>Specific gravity</b>	Not determined	

**10. STABILITY AND REACTIVITY**

<b>Reactivity</b>	Not reactive under normal conditions
<b>Chemical stability</b>	Stable under recommended storage conditions
<b>Possibility of hazardous reactions</b>	None under normal processing
<b>Hazardous polymerization</b>	Does not occur.
<b>Incompatible materials</b>	Strong oxidizing agents
<b>Hazardous decomposition products</b>	Methacrylate monomer, oxides of carbon when burned

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposures

<b>Product information</b>	This product has not been tested on animals to obtain toxicology data.
<b>Inhalation</b>	May cause irritation of respiratory tract.
<b>Eye contact</b>	Avoid contact with eyes.
<b>Skin contact</b>	May cause temporary irritation on skin contact.
<b>Ingestion</b>	May cause gastrointestinal irritation, nausea, diarrhea and vomiting

**Component information**      There is no specific data available for this product.

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity**      There is no specific data available for this product.

## 13. DISPOSAL CONSIDERATIONS

### Waste treatment methods

**Disposal of wastes**      Follow all local and national government regulations in disposing material or contaminated packaging.

**Contaminated Packaging**      For bulk only: Reuse of empty drums or containers is not recommended. Employees should be advised of the potential hazards due to residual material associated with empty containers. Dispose of all empty containers properly in accordance with federal, state and local regulations.

## 14. TRANSPORTATION INFORMATION

**DOT**      Not regulated  
**IATA**      Not regulated  
**IMDG**      Not regulated

## 15. REGULATORY INFORMATION

### International Inventories

**EINECS**      This product is a medical device and not subject to chemical notification requirements.

### US Federal Regulations

**TSCA**      This product is an FDA regulated device and not subject to TSCA regulations.

**SARA 302 – Extremely Hazardous – Not Listed**

**SARA 311 / 312 Hazard Categories – This product is an FDA regulated device and not subject to reporting requirements.**

## 16. OTHER INFORMATION

HMIS	Health Hazards	Flammability	Physical Hazards
	1	1	0

**Effective Date**      27-Oct-2021

### Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release. It is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet