

SAFETY DATA SHEET

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: Biocryl Ice Polymer

Product Number: 047-003, 047-005 **Kits:** 047-001, 047-002

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	> 85	*

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

4. FIRST AID MEASURES

First aid measures

Inhalation	Remove to fresh air. Get medical attention if discomfort persists.
Eye contact	Rinse immediately with plenty of water, including under the eyelids, for at least 15 minutes. If irritation persists, get medical advice / attention.
Ingestion	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.
Skin Contact	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 (CO₂).

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

Storage Conditions 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.

Packaging materials
Incompatible materials

Keep in original container.
Strong oxidizing agents

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Industrial Hygiene Practices

Follow good laboratory practices.

Ventilation Measures

Local exhaust at processing equipment

Respiratory Protection

Nuisance dust type if needed

Hand Protection

Protective gloves not generally needed

Eye Protection

Safety glasses

Skin and Body Protection

High temperature processing equipment should be ventilated

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state	Powder	Odor	Faint odor in bulk
Appearance	Fine		
Color	White		

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

10. STABILITY AND REACTIVITY

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

11. TOXICOLOGICAL INFORMATION

Not available

12. ECOLOGICAL INFORMATION

Not available

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

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.

SAFETY DATA SHEET

SECTION 1. IDENTIFICATION



Great Lakes Orthodontics
200 Cooper Ave
Tonawanda, NY 14150

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

Product Name: Biocryl Ice Monomer Kits
Product Number: 047-004, 047-006 047-001, 047-002

Effective Date: 8/9/17

SECTION 2. HAZARDOUS IDENTIFICATION

Physical Hazards:

Class – Flammable Liquid
Category – Category 2
H-Code – H225

Health Hazards:

Class:	Category:	H-Code
Skin Corrosion / Irritation	Category 2	H315
Skin Sensitization	Category 1	H317
Specific Target Organ Toxicity – Single Exposure – Respiratory	Category 3	H335

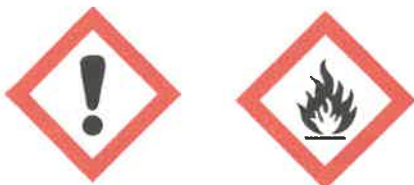
Environment Hazards:

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>ACGIH TLV</u>	<u>% (Optional)</u>
Methyl Methacrylate Monomer	100ppm	90 - 95
Diauryid Methylammonium Chloride		5

SECTION 4. FIRST AID MEASURES

Eye Contact

Flush with water for 15 minutes.

Skin Contact

Wash with soap and water.

Inhalation

Move to fresh air.

Ingestion

Do not induce vomiting.

SECTION 5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media

Chemical foam, Carbon Dioxide, Dry Chemicals, and Water Fog.

Special Fire Fighting Procedures

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

Other Precautions – Use gloves and safety glasses.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Ventilation Measures

Local exhaust – Keep concentration below 100ppm.

Mechanical (general) – Explosion proof exhaust at point of operations.

Respiratory Protection

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

Hand Protection

Wear protective gloves – Impervious, neoprene-type.

Eye Protection

Splash proof goggles.

Work / Hygienic Practices

Follow good laboratory practices

Additional Protective Measures

Eyewash, safety shower, coveralls, and overshoes.

SECTION 9. PHYSICAL & CHEMICAL PROPERTIES

- **Appearance** – Colorless liquid
- **Odor** – Characteristic acrid odor
- **Flash Point** - 50 °F (TCC)
- **Flammable Limits** – 77 °F 1 ATM
- **Lower Explosion Limit** – 2.1
- **Upper Explosion Limit** – 12.5
- **Vapor Pressure (mm Hg)** – 29 (20 °C)
- **Vapor Density (AIR = 1)** – 3.46 (60 °F, 1 ATM)
- **Solubility in Water** – 1.6g / 100g (68 °F)
- **Boiling Point** – 214 °F (760 mm Hg)
- **Specific Gravity (H₂O – 1)** - .095 (60 °F)
- **Melting Point** – -54 °F
- **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 – Heat and ignition sources. Contamination with foreign materials.

Hazardous Decomposition Products – Not applicable.

SECTION 11. TOXICOLOGICAL INFORMATION

Not applicable.

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