SAFETY DATA SHEET

SECTION 1. INDENTIFICATION

Great Lakes Orthodontics
200 Cooper Ave
Tonawanda, NY 14150

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

Product Name: Biocryl Ice Polymer Kits
Product Number: 047-003, 047-005 047-001, 047-002

Effective Date: 8/10/16

SECTION 2. HAZARDOUS IDENTIFICATION

- This product contains no component considered to be hazardous. No Pictogram or sign word required.

SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

Components	PEL	ACGIH TLV	%
Dialkyl Phthalate	5mpm	<15%	
Plasticized Polymethacrylate		>85%	

SECTION 4. FIRST AID MEASURES

Eye Contact
Flush with water for 5 minutes.
Skin Contact
Wash with soapy water.
Inhalation
Remove to fresh air.
Ingestion
Rinse mouth with water.

SECTION 5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media
Water, Dry chemical, Carbon Dioxide (CO2)
Special Fire Fighting Procedures
Avoid dust clouds. Water stream can disburse dust in air producing a fire hazard and possible explosion if exposed to ignition.
Unusual Fire / Explosion Hazards
Polymer dust is combustible. The explosive limits of the polymer particles suspended in air are approximately those of coal dust.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Spill and Leak Procedures
Sweep up to avoid slipping hazard. Keep airborne particulate at a minimum when cleaning spills.

SECTION 7. HANDLING & STORAGE

Handling / Storage Precautions
Store in cool dry place. Keep container closed to prevent water absorption and contamination.
Further Precautions
It is considered an inert or nuisance dust.

SECTION 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.

SECTION 9. PHYSICAL & CHEMICAL PROPERTIES

- **Appearance –** Fine powder
- **Color –** White
- **Odor –** Faint odor in bulk
- **Flash Point -** 340 °C
- **Melting Point –** Not Established
- **Lower Explosion Limit –** Not Established
- **Upper Explosion Limit –** Not Established
- **Vapor Pressure (mm Hg) –** Not Established
- **Solubility in Water –** Insoluble
- **Vapor Density (AIR=1) –** Not Established
- **Specific Gravity (H2O=1) –** Not Established
- **Evaporation Rate (Butyl Acetate=1) –** NIL

SECTION 10. STABILITY & REACTIVITY

Hazardous Reactions – Hazardous polymerization will not occur.
Stability – Stable
Materials to Avoid – Strong oxidizing agents.
Conditions to Avoid – Heating above 240 °C.
Hazardous Decomposition Products – Methylmethacrylate and Carbon Monoxide.

SECTION 11. TOXICOLOGICAL INFORMATION

Not available

SECTION 12. ECOLOGICAL INFORMATION (non-mandatory)

Not available

SECTION 13. DISPOSAL CONSIDERATIONS (non-mandatory)

Waste Disposal Method
May be disposed of in landfill or incinerated. Follow Federal, State, and local regulations for disposal.

SECTION 14. TRANSPORT INFORMATION (non-mandatory)

Not available

SECTION 15. REGULATORY INFORMATION (non-mandatory)

Not available

SECTION 16. OTHER INFORMATION (non-mandatory)

Not available

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SECTION 1. INDENTIFICATION

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: 8/10/16

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

Hazardous Components	ACGIH TLV	% (Optional)
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 that 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)

SECTION 13. DISPOSAL CONSIDERATIONS (non-mandatory)

SECTION 14. TRANSPORT INFORMATION (non-mandatory)

SECTION 15. REGULATORY INFORMATION (non-mandatory)

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