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: Variflex Polymer Kit
Product Number: 046-004, 046-006 046-001, 046-002

Effective Date: 12/1/17

SECTION 2. HAZARDOUS IDENTIFICATION

Classification of the substance or mixtures **Catergory**
Hazard Class – Physical, Health, Environmental
Eye Damage / Irritation 2A

OSHA Defind Hazards
Combustible dust, may form combustible dust concentrations in air, explosion hazard

Label Elements – *Pictograms, Signal Word, Hazard Statements, Precautionary Statements, and Supplemental Information*

Signal Word – Warning

Hazard Statements
H320 Causes eye irritation

Precautionary Statements - *Prevention, Response & Disposal*
P240 Ground and bond container and receiving equipment
P264 Wash hands and exposed skin thoroughly after handling
P280 Wear protective gloves / protective clothing / eye protection / face protection
P305 /
P351 /
P338 IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and east to do – continuing rinsing.
P337 /
P313 Get medical advice / attention

SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Components	CAS #	WT / WT%	GHS Rating
2 - Propenioc Acid	9003-42-3	90 – 100	Eye damage/irritation 2B
2-Methyl-ethyl ester	9003-42-3	90 - 100	Eye damage/irritation 2B
Homopolymer	9003-42-3	90 – 100	Eye damage/irritation 2B
1 – Benzyl - 5	72846-00-5	1 – 5	Oral Toxicity 3
Phenylbarbituric Acid	72846-00-5	1 – 5	Oral Toxicity 3

SECTION 4. FIRST AID MEASURES

Eye Contact

If product gets in the eyes, flush with copious amounts of lukewarm water for at least 15 minutes. If irritation occurs, contact a physician.

Skin Contact

If irritation occurs and product is on the skin, rinse thoroughly with lukewarm water, followed by a thorough washing of the affected area with soap and water. If irritation, redness, or swelling persists, contact a physician immediately.

Inhalation

Remove to fresh air. See immediate medical attention.

Ingestion

If ingested, do not induce vomiting. If product has been swallowed, drink plenty of water or milk IMMEDIATELY. If the patient is vomiting, continue to offer water or milk. Never give anything by mouth to an unconscious person. Provide an estimate of the time at which the material was ingested and the amount of the substance that was swallowed. Get medical attention immediately.

Clothing

Remove contaminated clothing, was thoroughly before reuse. Treat symptoms conventionally, after thorough decontamination.

Treatment

Treat symptoms conventionally, after thorough decontamination.

SECTION 5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media

Water, Dry chemical, Carbon Dioxide (CO2)

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.

Unusual Fire / Explosion Hazards

Polymer dust is combustible. The explosive limits of the polymer particles suspended in air are approximately those of coal dust. Firefighters should wear self-contained breathing apparatus.

- **Sensitive to mechanical impact**: NO
- **Sensitive to static discharge**: NO

SECTION 6. ACCIDENTAL RELEASE MEASURES

Spill and Leak Procedures

Before cleaning any spill or leak, individuals involved must wear appropriate personal protective equipment (e.g.: goggles, gloves). Sweep up to avoid slipping hazard. Keep airborne particulates at a minimum when cleaning up spills. Dispose of properly in accordance with local, state, and federal regulations. Wash all affected areas with plenty of warm water and soap. Remove any contaminated clothing and wash thoroughly before use.

SECTION 7. HANDLING & STORAGE

Handling Precautions

Use in well ventilated areas. Avoid contact with skin, eyes, and clothing. Avoid breathing dust. Use good personal hygiene and housekeeping.

Storage Precautions

Store containers in a cool, dry location, away from direct sunlight, other light sources, or sources of intense heat. Keep container closed to prevent water absorption and contamination.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Industrial Hygiene

Avoid prolonged contact with product. Use good personal hygiene and housekeeping. Use in a well-ventilated location (e.g.: local exhaust ventilation, fans). After use, wash hands and exposed skin with soap and water. Do not eat, drink, or smoke while handling product.

Ventilation Measures

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.

Respiratory Protection

No special respiratory protection is required under typical circumstances of use or handling. If necessary, use only respiratory protection authorized per U.S. OSHA's requirement in 29 CFR 1910.134 or applicable U.S. state regulations, or the appropriate standards of Canada, its provinces, E.C. member states, or Australia.

Hand 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 U.S. OSHA's requirement in 29 CFR 1910.138 or other appropriate governing standards.

Eye Protection

Depending on the use of this product, safety glasses or goggles may be worn. If necessary, refer to U.S. OSHA 29 CFR 1910.133, Canadian standards, or European Standard EN166. Ensure that an eyewash station, sink, or washbasin is available in case of exposure to eyes.

Additional Protective Measures

No special body protection is required under typical circumstances of use and handling. If necessary, refer to appropriate standards of Canada, the E.C. member states, or U.S. OSHA. An eyewash station and a safety shower are recommended. High temperature processing equipment should be well ventilated.

SECTION 9. PHYSICAL & CHEMICAL PROPERTIES

- **Appearance –** Powder
- **Color –** Fine clear to pigmented
- **Odor –** Faint odor in bulk
- **PH –** Not Available
- **Flash Point –** 304 °C (580 °F)
- **Lower Explosion Limit –** Not available
- **Upper Explosion Limit –** Not available
- **Boiling Point –** Not available
- **Freezing Point –** Not available
- **Viscosity –** Not available
- **Vapor Pressure –** Not available
- **Percent Volatile W/W% -** Not available
- **Vapor Density (AIR=1) –** Not available
- **Evaporation Rate (BuAc=1) –** Not available
- **Solubility in Water –** Insoluble

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 (464 °F)
Hazardous Decomposition Products – Methacrylate Monomer and Oxides of carbon when burned.

SECTION 11. TOXICOLOGICAL INFORMATION

Toxicity Data - This product has not been tested on animals to obtain toxicology data. There is toxicology data for the components of the product, which is found in scientific literature. This data has not been presented in this document.
Mutagenicity Data – This product is not reported to produce mutagenic effects in humans.
Reproductive Toxicity Data

- Embryo toxicity – This product is not reported to produce embryo toxic effects in humans.
- Teratogenicity – This product is not reported to cause teratogenic effects in humans.
- Reproductive Toxicity – This product is not reported to cause reproductive effects in humans.

SECTION 12. ECOLOGICAL INFORMATION (non-mandatory)

Aquatic Toxicity – There is no specific data available for this product; however, very large releases of this product may be harmful or fatal to overexposed aquatic life.
Environmental Fate (Methyl Methacrylate)
There is no specific data available for this product.

SECTION 13. DISPOSAL CONSIDERATIONS (non-mandatory)

Waste Disposal Method
Dispose of properly in accordance with Federal, State, and Local regulations.
Disposal of Empty Containers
Reuse of empty drums or containers in 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.

SECTION 14. TRANSPORT INFORMATION (non-mandatory)

- **DOT / UN Shipping Name –** Polymer, NOI

SECTION 15. REGULARTORY INFORMATION (non-mandatory)

SARA Reporting Requirements – Not available
SARA Threshold Planning Quantity – There are specific threshold planning quantities for the components of this product.

TSCA Inventory Status – The components of this product are listed on the TSCA inventory. For use in FDA regulated products only.
CERCLA Reportable Quantity (RQ): Not available

Other Federal Requirements – This product complies with the appropriate sections of the Food and Drug Administration's 21 CFR subchapter G (Cosmetics).
Other Canadian Requirements – This product has been classified according to the hazard criteria of the CPR and the SDS contains all of the information required by the CPR. The components of this product are listed on the DSL/NDSL. None of the components of this product are listed on the Priorities Substances List.

State Regulatory Information – This product may contain components that are covered under specific state criteria.

RISK STATEMNTS

- R36/37/38 – Irritating to eyes, respiratory system, and skin.

SAFETY STATEMENTS

- S3 – Keep in a cool place.
- S7 – Keep container tightly closed.
- S9 – Keep container in a well-ventilated place.
- S20 – When using do not eat or drink.
- S29 – Do not empty into drains.
- S37/39 – Wear suitable gloves and eye/face protection.

SECTION 16. OTHER INFORMATION (non-mandatory)

HMIS Rating:

- **Health –** 1
- **Flammability –** 1
- **Reactivity –** 0
- **Personal Protective Equipment –** Gloves and safety glasses or Chemical Goggles.

NFPA Rating:

- **Health** – 1
- **Flammability** – 1
- **Reactivity** - 0

0 = Minimal, 1 = Slight, 2 = Moderate, 3 = Serious, 4 = Severe
* = Chronic Health Hazard