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: Mouthguard Material, Boil and Bite
Product Number: 191-021, 191-022, 191-023, 191-024, 191-025, 191-026, 191-027

Effective Date: 12/21/17

SECTION 2. HAZARDOUS IDENTIFICATION

Physical State
Solid (pellets).
Odor
Odorless
Emergency Overview
Process vapours may cause respiratory tract, eye and skin irritation.
Routes of Entry
Inhalation and Ingestion.

Potential Acute Health Effects
Inhalation – Slightly irritating to the respiratory system.
Ingestion – No known significant effects or critical hazards.
Skin – Slightly irritating to the skin.
Eyes – Slightly irritating to the eyes.

Potential Chronic Health Effects
Chronic Effects – Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.
Carcinogenicity – No known significant effects or critical hazards.
Mutagenicity - No known significant effects or critical hazards.
Tenogenicity - No known significant effects or critical hazards.
Developmental Effects - No known significant effects or critical hazards.
Fertility Effects - No known significant effects or critical hazards.
Get Organs – Not available.

Over Exposure Signs / Symptoms
Inhalation – Adverse symptoms may include the following: Respiratory tract infection, coughing.
Ingestion – No specific data.
Skin – Adverse symptoms may include the following: irritation, redness.
Eyes – Adverse symptoms may include the following: irritation, watering, redness.

SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Components

This material is not hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29 CFR 1910.1200.

SECTION 4. FIRST AID MEASURES

Eye Contact

In case of contact, flush eyes with plenty of lukewarm water.

Skin Contact

Cool melted product on skin with plenty of water. Do not remove solidified product. Get medical attention if thermal burn occurs.

Inhalation

Move to fresh air in case of accidental inhalation of dust or fumes from overheating or combustion.

Ingestion

Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention.

Other Measures

To physician – No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

SECTION 5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media

Water, Dry chemical, Carbon Dioxide (CO2)

Special Fire Fighting Procedures

Firefighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Unusual Fire / Explosion Hazards

Dense black smoke emitted when burned without sufficient oxygen. Products of combustion are toxic. This product is not flammable and will not burn without external flame. May accumulate a static charge which could act as an ignition source and is insensitive to impact.

Special Exposure Hazards

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Wear self-contained breathing apparatus and complete personal protective equipment when entering confined areas where potential for exposure to vapors or products of combustion exists. Disperse vapor with water spray. Use water spray to cool fire-exposed containers and structures.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Spill and Leak Procedures

Avoid dust accumulation. Sweep, shovel, or vacuum spilled resins into a labeled waste container for reuse or disposal. Move containers from spill area.

Personal Precautions

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing dust. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see section 8).

Environmental Precautions

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains, and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil, and air).

SECTION 7. HANDLING & STORAGE

Handling Precautions

Put on appropriate personal protective equipment (section 8). Eating, drinking, and smoking should be prohibited in areas where this material is handled, stored, and processed. Workers should wash hands and face before eating, drinking, and smoking. Do not ingest. Avoid contact with eyes, skin, and clothing. Avoid breathing dust. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Storage Precautions

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool, and well-ventilated area away from heat, ignition sources, food, and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Industrial Hygiene

Wash hands, forearms, and face thoroughly after handling chemical products, before eating, smoking, and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Ventilation Measures

Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor, or mist, use exposure to airborne contaminates below any recommended or statutory limits.

Respiratory Protection

Use a properly fitted air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. Atmospheric levels should be maintained below the exposure guidelines.

Hand Protection

Chemical resistant impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Eye Protection

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts. If operating conditions cause high dust concentrations to be produced, use dust goggles. Recommended: safety glasses with side shields.

Skin and Body Protection

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. Lab coat recommended.

Additional Exposure Controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters, or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels. PVC contains trace amounts of residual VCM (A cancer suspect agent) which may accumulate by volatilization in enclosed bulk rail, cars, bulk trucks, storage silos, bag storage areas and in and around blenders or equipment where heat is applied. Vent the air space above the resin. Other areas should be suitably ventilated and monitored for VCM exposure compliance. Suitable respiratory equipment may be required.

Monitoring Procedures

If this product contains ingredients with exposure limits, persona, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.

SECTION 9. PHYSICAL & CHEMICAL PROPERTIES

- **Form –** Solid
- **Appearance –** Pellets
- **Color –** White
- **Odor –** Faint, characteristic
- **Flash Point –** Not available
- **Lower Explosion Limit –** Not Available
- **Upper Explosion Limit –** Not Available
- **Vapor Pressure –** Not Applicable
- **Solubility in Water –** Insoluble in the following materials: cold water.
- **Bulk Density –** 0.93 to 0.96 g/cm3
- **Specific Gravity (water=1) -** > 1.2

SECTION 10. STABILITY & REACTIVITY

Hazardous Reactions – Hazardous polymerization does not occur.
Stability – Stable
Materials to Avoid – Oxidizing materials, mineral acids.
Conditions to Avoid – Do not heat above 200 °C to avoid possible release of hydrogen chloride.
Hazardous Decomposition Products – Carbon Monoxide, Carbon Dioxide, Hydrogen Chloride gas.
Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11. TOXICOLOGICAL INFORMATION

Toxicity Data for Copolyester:
Acute oral toxicity

- LD50: 30 G/KG (Rat)
- LD50: G/KG Dermal (rabbit)

SECTION 12. ECOLOGICAL INFORMATION (non-mandatory)

Not applicable.

SECTION 13. DISPOSAL CONSIDERATIONS (non-mandatory)

- **Waste Disposal Method**
  The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recycle products via a licensed waste disposal contractor. Disposal of this product, solutions and any by products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilled material, runoff, and contact with soil, waterways, drains, and sewers. Should be disposed of in accordance with Federal, Municipal, and Provincial regulations.

SECTION 14. TRANSPORT INFORMATION (non-mandatory)

- **Land Transport (DOT):** Non - regulated
- **Sea Transport (IMDG):** Non – regulated
- **Air Transport (ICAO/IATA):** Non – regulated

SECTION 15. REGULATORY INFORMATION (non-mandatory)

This is not a controlled product under WHMIS (Canada).

SECTION 16. OTHER INFORMATION (non-mandatory)

Not applicable.