

SAFETY DATA SHEET

SECTION 1. IDENTIFICATION

Great Lakes Dental Technologies, Ltd
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CHEMTREC: 800-424-9300

Product Name: Stardust Polymer
Product Number: 045-061, 045-062

Effective Date: 8/22/23

SECTION 2. HAZARDOUS IDENTIFICATION

Classification

Skin sensitization – Category 1

Signal Word

Warning

Hazard Statements

May cause an allergic skin reaction



Precautionary Statements – Prevention

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

Precautionary Statements - Response

IF ON SKIN: Wash with soap and water.
If skin irritation or rash occurs: Get medical advice / attention.
Wash contaminated clothing before use.

Precautionary Statements - Disposal

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

SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Hazardous Components</u>	<u>CAS #</u>	<u>Weight - %</u>	<u>Trade Secret</u>
Polymer	25685-29-4	>99	*
Benzoyl Peroxide	94-36-0	< 2	

* Specific CAS No and chemical weight have been withheld as a trade secret.

SECTION 4. FIRST AID MEASURES

Eye Contact

Rinse immediately with plenty of water, including under the eyelids, for at least 15 minutes. If irritation persists, get medical advice / attention.

Skin Contact

Wash with soap and water. If irritation persists, call a physician. Take off contaminated clothing and was before reuse.

Inhalation

Remove to fresh air. Get medical help if discomfort persists.

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.

Symptoms

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

Not to Physicians

Treat symptomatically

SECTION 5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media

Water, Dry chemical, Carbon Dioxide (CO₂). Avoid extinguishing methods which may generate dust clouds.

Special Fire Fighting Procedures

Self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

Unusual Fire / Explosion Hazards

For bulk size, 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 up spills. Clean up in accordance with all applicable regulations. Wash all affected areas with plenty of warm water and soap.

Personal Precautions

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

Methods for containment and clean-up

Prevent further leakage or spillage if safe to do so.

SECTION 7. HANDLING & STORAGE

Handling Precautions

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

Storage Precautions

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. Temperature not to exceed 35 °C.

Further Info on Storage Conditions

Keep in original container.

Incompatible materials

Strong oxidizing agents

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<u>Chemical Name</u>	<u>ACGIH TLV</u>	<u>OSHA PEL</u>	<u>NIOSH IDLH</u>
Benzoyl Peroxide	TWA: 5 mg/m ³	TWA: 5 mg/m ³ TWA: 5 mg/m ³ (vacated)	IDLH: 1500 mg/m ³ TWA: 5 mg/m ³

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.

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 SS1910.134 or applicable US state regulations, or the appropriate standards of Canada, its provinces, EC member states or Australia. VENTILATION: Local exhaust at processing equipment.

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.

Eye 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.

General Hygiene

Handle in accordance with good industrial hygiene and safety practice.

SECTION 9. PHYSICAL & CHEMICAL PROPERTIES

- **Physical State** – Powder
- **Appearance** – Fine
- **Color** - Pigmented
- **Odor** – Faint odor in bulk
- **Flash Point** - 304 °C (579 °F)
- **Flammability (solid, gas)** – Non - flammable
- **Water Solubility** – Insoluble in water

Not Determined – Odor Threshold, PH, Melting/Freezing Point, Specific Gravity, Solubility in other solvents, Partition coefficient, Auto Ignition Temperature, Decomposition Temperature, Kinematic Viscosity, Dynamic Viscosity, Explosive Properties, and Oxidizing Properties

Not Applicable – Boiling Point / Range, Evaporation Rate, Upper and Lower Flammability Limits, Vapor Pressure, and Vapor Density

SECTION 10. STABILITY & REACTIVITY

Hazardous Reactions – None under normal conditions. Hazardous polymerization will not occur under normal processing.

Stability – Stable under recommended storage conditions.

Materials to Avoid – Strong oxidizing agents.

Conditions to Avoid – Heating above 240 °C / 464 °F

Hazardous Decomposition Products – Methyl Methacrylate monomer and oxides of carbon when burned.

SECTION 11. TOXICOLOGICAL INFORMATION

Routes of Exposure

Inhalation

Eye Contact

Ingestion

Benzoyl Peroxide

Oral - 6400 mg/kg (rat)

Symptoms

See Section 4

Delayed and immediate effects as well as chronic from short and long-term exposure

Carcinogenicity – Not classifiable as a human carcinogen (IARC group 3)

Numerical measures of toxicity – Product

Not determined

SECTION 12. ECOLOGICAL INFORMATION (non-mandatory)

Ecotoxicity

There is no specific data available for this product; however, very large releases may be harmful or fatal to overexposed aquatic life.

Persistence and Degradability

Not determined

Bioaccumulation

Not determined

Mobility

Not determined

Other adverse effects

Not determined

SECTION 13. DISPOSAL CONSIDERATIONS (non-mandatory)

Waste Disposal Method

Follow all local and national government regulations in disposing material or contaminated packaging.

California Hazardous Waste Status

Benzoyl Peroxide - 6400 mg/kg (rat)

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.

California Hazardous Waste Status

Benzoyl Peroxide – toxic, ignitable, reactive

SECTION 14. TRANSPORT INFORMATION (non-mandatory)

DOT }
IATA } Not Regulated
IMDG }

SECTION 15. REGULATORY INFORMATION (non-mandatory)

International Inventories

TSCA – For use in FDA regulated products only. Unites States Toxic Substances Control Act, Section 8(b) Inventory.

DSL – Listed. Canadian Domestic Substances List

EU Regulations – EC. No 1272/2008 (CLP) Classification, Labeling, Packaging. Medical Devices Directive 93/42/EEC – Class 1 Medical Devices

US Federal Regulations

Benzoyl Peroxide Weight – 1% SARA 313 Threshold Value % - 1.0

US State Regulations

US State Right – To – Know - Regulations

Benzoyl Peroxide

New Jersey

Massachusetts

Pennsylvania

SECTION 16. OTHER INFORMATION (non-mandatory)

HMIS Rating:

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

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

* = Chronic Health Hazard