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MATERIAL SAFETY DATA SHEET LUCENT AND PRISM COMPOSITE ORTHODONTIC BRACKETS

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1-IDENTIFICATION

Composite products (Thermoplastic Polyurethanes TPUs) – Brackets, Lingual Attachments

2-HAZARDOUS INGREDIENTS / IDENTITY INFORMATION

Thermoplastic Polyurethanes (TPU) Medical Grade are made essentially from three reactants: isocyanate, long-chain macrodiol, short chain diol extender.

Ingredients that are considered hazardous are:

- Diphenylmethane Diisocyanate (MDI)
- Polyether Polyol based on Dipropylglycol

This listing is a summary of elements used in the raw material components. Trace elements may be present in minute amounts.

3-PHYSICAL / CHEMICAL CHARACTERISTICS

Boiling Point: 144°C

Vapor Pressure (mm Hg): ND

Vapor Density (Air = 1): ND

Solubility in Water: Insoluble

Appearance and Odor: Solid, odorless ceramic

Specific Gravity (H₂O=1): 1.22 g/cm³

Melting Point: Degree C: ND

Evaporation Rate (Butyl Acetate=1): ND

4-FIRE AND EXPLOSION HAZARD DATA

Flash Point: 240°C

Extinguishing Media: Foam, Dry Chemical, or NFPA Class B Extinguisher.

Special Fire Fighting Procedures: Wear self-contained breathing apparatus.

Unusual Fire and Explosion Hazards: None.

5-REACTIVITY DATA

Stability: Stable.

Conditions to Avoid: None

Incompatibilities (Materials to Avoid): None

Hazardous Decomposition or Byproducts: None

Hazardous Polymerization: Will not occur

Conditions to Avoid: None

6-HEALTH HAZARD DATA

Medical grade Polyurethane products are not generally considered hazardous in the form they are shipped.

Health Effects:

EMERGENCY AND FIRST AID PROCEDURES

Inhalation: N/A

Ingestion: While ingestion quantities large enough to cause health effects is unlikely, consult a physician if it occurs

Skin Contact: No documented irritations

Eye Contact: Flush thoroughly with water. Consult a physician

7-PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to be Taken in Case Material is Released or Spilled: Not necessary as product is a solid plastic.

Waste Disposal Method: Dispose of in accordance with EPA or local regulations.

Precautions to be Taken in Handling and Storing: N/A.

Other Precautions: Follow standard laboratory safety practices.

8-CONTROL MEASURES

Ventilation: General

Protective Gloves: Required when cutting or grinding

Eye Protection: Required when cutting or grinding

Other Protective Clothing or Equipment: Required when cutting or grinding

Work/Hygienic Practices: Follow standard laboratory practices.

9-NOTE

The information contained in the MSDS is believed to be valid and accurate. However, ODP makes no warranty, either expressed or implied, as to the completeness of information in all possible conditions.

REASONABLE SAFETY PRECAUTIONS MUST ALWAYS BE OBSERVED!