

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Iconic Retainer Material

Manufactured for: DB Orthodontics Ltd
Ryefield Way
Silsden
West Yorkshire
BD20 0EF

Chemical Name: Polyethylene terephthalate Glycol (PETG)

Molecular Formula: $C_{10}H_8O_4$

2. HAZARDS IDENTIFICATION

Caution Molten Material Will Produce Thermal Burns

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Characterisation:

CAS No. Description

Polyethylene Terephthalate Glycol (PETG)

Identification No: Not Applicable

4. FIRST AID MEASURES

Inhalation: If symptomatic, move to fresh air. Get medical attention if symptoms persist

Eyes: If molten material contacts the eyes, immediately flush with plenty of water for at least 10-15 minutes. Get medical attention immediately

Skin: If burned by contact with molten material, cool as quickly as possible. Do not attempt to peel material from skin. Get medical attention.

Notes to Physicians: Burns should be treated as thermal burns. The material will remove as healing occurs; therefore, immediate removal from skin is not necessary.

5. FIRE FIGHTING MEASURES

Extinguishing Media: Water spray, dry chemical

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

Hazardous Combustion Products: carbon dioxide, carbon monoxide

Unusual Fire and Explosion Hazards: Powdered material may form explosive dust-air mixtures.

6. ACCIDENTAL RELEASE MEASURES

Person-related safety precautions: Avoid contact with skin and eyes

Measures for environment protection: Do not allow to enter sewers/surface or ground water

Measures for cleaning/collecting: Pick up mechanically

Additional Information: No dangerous substances are released

7. HANDLING AND STORAGE

Handling:

Information for safe handling:

When using do not eat, drink or smoke.

Provide suction extractors if dust is formed.

Information about fire - and explosion protection: No special measures required.

Storage:

Requirements to be met by storerooms and receptacles: Keep container tightly sealed

Information about storage in one common storage facility: Not required

Further information about storage conditions: None

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Country specific exposure limits have not been established or are not applicable unless listed below.

Ventilation: Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions.

Respiratory Protection: If engineering controls do not maintain airborne concentrations to an acceptable level, an approved respirator must be worn.

Eye Protection: Wear a face shield when working with molten material.

Skin Protection: When material is heated, wear gloves to protect against thermal burns.

Recommended Decontamination Facilities: eye bath, washing facilities

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical Form: solid (sheets)

Color: varies with formulation

Odor: odorless

Specific Gravity: >1

Softening Point: varies with formulation

Solubility in Water: Insoluble

Density at 20°C: 1.27g/cm³

Flash Point: not applicable, combustible solid

10. STABILITY AND REACTIVITY

Stability: Stable

Incompatibility: Material Reacts with strong oxidizing agents

Hazardous Polymerization: Not applicable

11. TOXICOLOGICAL INFORMATION

Acute toxicity:

Primary irritant effect:

on the skin: No irritant effect.

on the eye: No irritating effect.

Sensitization: No sensitizing effects known.

Additional toxicological information:

When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us. The substance is not subject to classification according to the latest version of the EU lists.