

Safety Data Sheet for Retroplast

1. Names of Material, Preparation and Company

Trade name:	Retroplast™
Manufacturer:	Endoplast ApS, Postvej 1, DK-4652 Hårlev, Denmark Phone: (+45) 23722599, E-mail: info@retroplast.com
Application	Retrograde endodontic sealing of tooth roots

2. Possible Risk

Designation of risk

Warning



Danger

H315: Causes skin irritation
H317: May cause an allergic skin reaction
H319: Causes serious eye irritation
H335: May cause respiratory irritation

Ytterbium (III) fluoride as a powder can react with an acid to form hydrogen fluoride (HF), which is toxic and corrosive. In the product Retroplast Ytterbium (III) fluoride is bound in the resin which is water-free and water-repellent (hydrophobic). Ytterbium (III) fluoride will not be able to react with acids (in water) and will therefore not be able to form hydrogen fluoride. The amount of Retroplast per operation is less than 100 mg (48 mg of Ytterbium (III) fluoride). This combined with the hydrophobic property of the product results in the classification "warning".

3. Composition/Details of Components

Preparation: Radiopaque, chemically cured two-component composite containing BisGMA, TEGDMA, ytterbiumtrifluoride, colloidal silicon dioxide, ferric oxide and a catalyst system

Hazardous ingredients	Pasta A	Pasta B	CAS-nr.	Symbol	H-categories Text: See section 16. Other Particulars
BisGMA	21,7%	21,9%	1565-94-2	Warning	H 315, H317, H319,
TEGDMA	21,7%	21,9%	109-16-0	Warning	H 315, H317, H319, H335
Ytterbium (III) fluoride	48,1%	48,7%	13760-80-0	 Danger	H301 + H311 + H331.

4. First-Aid Measures

After inhalation:	In case of indisposition or nausea - seek fresh air In case of further indisposition - contact a physician
After skin contact:	Wash thoroughly with water and soap
After eye contact:	Rinse immediately the eyes with plenty of water at least in 15 min. Open up the eyes wide during the rinsing. Contact a physician

After swallowing: First aid not necessary.

5. Fire Fighting Measures

Suitable agents: Water, carbon dioxide, powder fire extinguishers

Particular hazards: Decomposition forms carbon oxide and carbon dioxide

6. Measures in Case of Unintended Release

Spill: Take up mechanically, use napkins or clothes

Disposal: See point 13

Personal protective equipment: See point 8

7. Handling and Storage

Storage: Cool, tightly closed in well-ventilated rooms and areas. Keep out of the reach of children

Should be avoided: Heat

8. Exposition Restriction and Personal Protective Equipment:

Exposition control: Avoid contact with eyes and skin. Use only in well-ventilated rooms

Personal protective equipment: Working clothes, gloves and protective glasses is recommended

9. Physical and Chemical Properties

Appearance: Paste A: red paste. Paste B: white paste

Odour: light acrylate-like

Solubility in water: Not soluble

Density: About 2

10. Stability and Reactivity

Hazardous products of decomposition: Carbon oxide and carbon dioxide

11. Toxicological Data

Inhalation: Possible irritation of the respiratory organ

Skin contact: Possible irritation or allergic reaction

Eye contact: Possible irritation

12. Ecological Data:

Hazardous for the environment: No risk has become known

13. Disposal Instructions:

Spill/waste: Obey local regulations

14. Particulars on Transport

Additional information: Not dangerous cargo

15. Regulation

This safety datasheet is in accordance with Regulation (EU) no. 1907/2006

16. Other Particulars

Retrograde root filling

H315: Causes skin irritation.

H317: May cause an allergic skin reaction.

H319: Causes serious eye irritation.

H335: May cause respiratory irritation.

H301 + H311 + H331: Toxic if swallowed, in contact with skin or if inhaled.

Note:

All information above has been given according to our present state of knowledge. It has been compiled to the best of our knowledge. The above-mentioned data do not represent a guarantee on characteristics. They only describe the safety requirements with regard to our products. They do not represent an assurance of product characteristics in the meaning of guarantees

Revision:

This Safety Data Sheet was prepared by M.Sc Lennart Staal-Olsen on 17.03.2016 and revised by Cand. Odont Thomas Foldberg on 19.03.2020 and 15.11.2021.