



SAFETY DATA SHEET

Complies with OSHA Standard 29 CFR 910.1200

Endura
High Performance
Chain Elastic

1. Product and Company Identification

Product Name: Endura High Performance Chain
Chemical Family: Thermosetting Polyurethane
Chemical Name: Polyurethane Polyester Elastomer
Manufacturer Name: Phoenix Orthodontics
Manufacturer Address: 3250 Palladian Village Drive
Marietta, GA 30066
Business Phone: 770-643-8896
Emergency Phone: 770-643-8896

2. Composition/Information on Ingredients

Chemical Name: Polyurethane Polyester Elastomer

Ingredients Natural Clear Material	CAS #	% Vol.
Isocyanate (4,4' diphenylmethane diisocyanate)	101-68-8	60.0
Polyol (Polyethylene Adipate)	Confidential	30.0
1, 4-Bis (B-Hydroxyethoxy) Benzene (BHEB)	104-35-1	10.0

Ingredients Grey Material	CAS #	% Vol.
Isocyanate (4,4' diphenylmethane diisocyanate)	101-68-8	59.0
Polyol (Polyethylene Adipate)	Confidential	29.7
1, 4-Bis (B-Hydroxyethoxy) Benzene (BHEB)	104-35-1	9.9
Titanium Oxide/Carbon Black Colorant	None stated	0.9

3. Hazardous Ingredients

Potential Health Effects:
Medical Conditions aggravated by Exposure: Not Applicable
Exposure Limit: Not Applicable
Possibility to Health: Not Applicable
Inhalation Route: Contact to eyes by impalpable powder
Signs and Symptoms of Overexposure: Not Applicable
Instant Inhalation: Not Applicable
Long Period Inhalation: Not Applicable
Instant Contact to Eyes: Possibility of unconscious stimuli by impalpable powder
Long Period Contact to Eyes: No available information
Carcinogenicity: Not Applicable

4. Physical Properties

Physical Form: Solid
Color: Cloudy/Grey
Odor: Odorless
pH: No data

5. Fire and Explosion Data

Flash Point: Not Applicable
Flammable Limits:
 Upper Explosive Limit (UEL) (%) Not Applicable
 Lower Explosive Limit (LEL) (%) Not Applicable
Extinguishing Media: Not Applicable
Special Fire Fighting Procedures: Not Applicable

6. Human Health Data

Route(s) of Entry:	Eye contact with fines (dust)
Human Effects and Symptoms of Overexposure:	
Acute Effects of Exposure:	None Known
Chronic Effects of Exposure:	None Known
Carcinogenicity:	None Known
Medical Conditions Aggravated by Exposure:	None Known
Exposure Limits:	None Known

7. Emergency and First Aid Procedures

First Aid for Eyes:	Flush completely with plenty of tepid water.
First Aid for Skin:	Wash with soap and water.
First Aid for Inhalation:	Remove to fresh air.
First Aid for Ingestion:	Get medical attention.

8. Employee Protection Recommendations

Eye Protection Requirements:	None
Skin Protection Requirements:	None
Respirator Requirements:	None
Additional Protection Guidelines:	None

9. Reactivity Data

Stability:	This is a stable material.
Hazardous Polymerization:	Will not occur.
Incompatibilities:	None Known
Instability Conditions:	None Known
Decomposition Products:	None Known

10. Spill and Leak Procedures

Spill or Leak Procedures:	Sweep up mechanically
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11. Special Precautions and Storage Data

Storage Temperature (Min/Max):	Normal Temperature
Shelf Life:	2 Years
Special Sensitivity:	Moisture
Handling/Storage Precautions:	Pack in the sealed receptacle and stor in a clean and dry place

12. Shipping Information

D.O.T. Shipping Name:	None
Technical Shipping Name:	Polyurethane Polyester Elastomer
D.O.T. Hazard Class:	Non-Regulated
U.N./N.A. Number:	None
Product Rq (lbs.):	None
D.O.T. Label:	None
D.O.T. Placard:	None
Freight Class Package:	None
Product Label:	Polyurethane Polyester Elastomer

13. Animal Toxicity Data

No animal toxicity information available.

14. Transport Information

OSHA Status: This product is not hazardous under the criteria of the Federal OSHA Hazard Communications Standard 29 CFR 1910.1200. However, thermal processing and decomposition fumes from this product may be hazardous as noted in Section V.

TSCA Status: Unknown

CERCLA Reportable Quantity: Unknown

SARA Title III:

Section 302 Extremely Hazardous Substances: None

Section 311/312 Hazard Categories: Non-hazardous under Section 311/312.

Section 313 Toxic Chemicals: None

SCRA Status: If discarded in its purchased form, this product would not be hazardous waste either by listing or characteristic. However, under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product, should be classified as a hazardous waste. (40 CFR 261.20-24)

15. Other Information

The information contained herein is based on the present state of our knowledge and is intended to describe our products from the point of view of safety requirements. Therefore, it should not be construed as guaranteeing specific properties.

PHOENIX
ORTHODONTICS