



## MATERIAL SAFETY DATA SHEET

### SECTION 1: INFORMATION ON COMPOSITION

**PRODUCT NAME:** EMA (Custom) Thermoforming Disc

**PRODUCT USE:** Components for oral mandibular advancement device

**COMPANY NAME:** MYERSON LLC

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USA

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## SECTION 2: HAZARDS IDENTIFICATION

### Emergency Overview

**CAUTION! Color:** tint **Form:** solid sheets **Odor:** slight.

Melted product is flammable and products intense heat and dense smoke during burning. Irritating gases/fumes may be given off during burning or thermal decomposition. May cause mechanical irritation (abrasion). Contact with hot material will cause thermal burns.

### Potential Health Effects

**Primary Routes of Entry:** Inhalation, Skin Contact, Eye Contact

**Medical Conditions Aggravated by** Respiratory disorders

### Exposure:

### HUMAN EFFECTS AND SYMPTIOMS OF OVEREXPOSURE

**Skin :** Contact with heated material can cause thermal burns

**Eye:** May cause mechanical irritation.

### General Effects of Exposure

#### Acute Effects of Exposure

Gases and fumes evolved during the thermal processing of decomposition of this material may irritate the eyes, skin of respiratory tract.



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### Chronic Effects of Exposure

Not expected to cause any adverse chronic health effects.

### Carcinogenicity:

No Carcinogenic substances as defined by IARC, NTP and/or OSHA

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## SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

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**CHEMICAL FAMILY:** Thermoplastic Polymer Sheet

**CHEMICAL NAME:** Co polyester

### Hazardous Components

This material is not hazardous under the criteria of the Federal OSHA Hazard Communication standard 29 CFR 1910.1200.

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## SECTION 4: FIRST AID MEASURES

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**Eye Contact:** In case of contact, flush eyes with plenty of lukewarm water.

**Skin Contact:** In case of skin contact, wash affected areas with soap and water. Get medical attention if thermal burn occurs.



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**Inhalation:** If inhaled, remove to fresh air.

**Ingestion:** Get medical attention

### SECTION 5: FIRE-FIGHTING MEASURES

#### HMIS Rating

Health 0

Flammability 1

Physical Hazard 0

0=Minimal 1=Slight 2=Moderate 3=Serious 4=Severe \*=Chronic Health Hazard

**Suitable Extinguishing Media:** water, foam, dry chemical, carbon dioxide (CO<sub>2</sub>)

#### **Special Fire Fighting Procedures**

Firefighters should be equipped with self-contained breathing apparatus to protect against potentially toxic and irritating fumes.

#### **Unusual Fire/Explosion Hazards**

Toxic and irritating gases/fumes may be given off during burning of thermal decomposition.

Dust may form explosive mixtures with air.



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### SECTION 6: ACCIDENTAL RELEASE MEASURES

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Spills and Leaks procedures: If molten, allow material to cool and place into an appropriate marked container for disposal.

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### SECTION 7: HANDLING AND STORAGE

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**Storage Temperature: Maximum:** 77° C (170.6° F)

**Storage Period:** Not Established

**Handling/Storage Precaution:** Handle in accordance with good industrial hygiene and safety practices. Wash thoroughly after handling. Avoid breathing dust.

**Further Info on Storage Conditions:** Protect equipment (e.g. storage bins, conveyors, dust collectors) with explosion vents.

### SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

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

**Industrial Hygiene/Ventilation Measures:** General dilution and local exhaust as necessary to control airborne vapors, mist, dust and thermal decomposition products



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below appropriate airborne concentration standards/guidelines, especially during cutting, grinding and high heat operations.

**Respiratory Protection:** Although no exposure limit had been established for this product, the OSHA PEL for Particulates Not Otherwise Regulated (PNOR) of 15 mg-m<sup>3</sup> – total dust, 5 mg/m<sup>3</sup> - respirable fraction is recommended. In addition, the ACGIH recommend 3 mg/m<sup>3</sup> – respirable particles and 10mg/m<sup>3</sup> - inhalable particles for Particles (insoluble or poorly soluble) Not Otherwise Specified (PNOS).

**Hand Protection:** Wear heat resistant gloves when handling molted material.

**Eye Protection:** Safety glasses with side-shields.

**Skin and body protection:** No special skin protection requirements during normal handling and use.

**Additional Protective Measures:** Employees should wash their hands and face before eating, drinking, or using tobacco products. Educate and train employees in the safe use and handling of this product. Purgings should be collected as small flat thin shapes or thin strands to allow for rapid cooling.



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### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

<b>Form:</b>	Solid
<b>Appearance:</b>	Sheets
<b>Color:</b>	Tint
<b>Odor:</b>	Slight
<b>pH:</b>	Not applicable
<b>Melting Point:</b>	220 – 250° C (428 – 482°F)
<b>Boiling Point/Range:</b>	Not applicable
<b>Flash Point:</b>	>450° C (>842 °F)
<b>Lower Explosion Limit:</b>	Not Established
<b>Upper Explosion Limit:</b>	Not Established
<b>Vapor Pressure:</b>	Not applicable
<b>Specific Gravity:</b>	Approximately 1.1 – 1.2
<b>Solubility in Water:</b>	Insoluble
<b>Auto-ignition Temperature:</b>	>450 °C (>842° F)
<b>Decomposition Temperature:</b>	380°C (716 °F)
<b>Softening Point:</b>	102 – 113° C (215.6 – 235.4°F)



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**Bulk Density:** 38 – 42 lb/ft<sup>3</sup>

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### SECTION 10: STABILITY AND REACTIVITY

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#### Hazardous Reactions

Hazardous Polymerization does not occur.

**Stability:** Stable

**Materials to avoid:** None known.

**Conditions to avoid:** None known.

**Hazardous decomposition products:** By Fire and Thermal Decomposition: Carbon Dioxide; Bisphenol A; Phenol; Carbonic Acid, Diphenyl Ester; Carbon monoxide, hydrocarbons, phenol derivatives

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### SECTION 11: TOXICOLOGICAL INFORMATION

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#### Toxicity Data for Copolyester

Acute Oral Toxicity

LD50: > 3,200 mg/kg (Rat, Male)

LD50: > 3,200 mg/kg (mouse, male)



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### Acute dermal toxicity

LD50: 1,000 mg/kg (Guinea pig)

### Skin Irritation

Guinea pig, slightly irritation

### Eye Irritation

Rabbit, Slightly irritation

Guinea pig, Non-irritation

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## SECTION 12: ECOLOGICAL INFORMATION

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### Acute and Prolonged Toxicity to Fish

LC50: > 100mg/l (Fathead minnow (*Pimephales promelas*), 96h)

### Acute Toxicity to Aquatic Invertebrates

LC50: >100 mg/l (Water flea (*Daphnia magna*), 96 h)

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## SECTION 13: DISPOSAL CONSIDERATIONS

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**Waste Disposal Method:** Waste disposal should be in accordance with existing federal, state and local environmental control laws.



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### SECTION 14: TRANSPORT INFORMATION

**Land transport (DOT):** Non-Regulated

**Sea transport (IMDG):** Non-Regulated

**Air transport (ICAO/IATA):** Non-Regulated

### SECTION 15: REGULATORY INFORMATION

#### **United States Federal Regulations**

**OSHA Hazcom Standards Rating:** Non-Hazardous

**US Toxic Substances Control Act:** listed on the TSCA Inventory.

US EPA CERCLA Hazardous Substances (40 CRF 302):

#### **Components**

None

#### **SARA Section 311/312 Hazard Categories:**

Non-hazardous under Section 311/312



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**US EPA Emergency Planning and Community Right To-Know Act (EPCRA) SARA Title III Section 302 Extremely Hazardous Substances (40 CFR 355, Appendix A):**

**US EPA Resources Conservation and Recovery Act (RCRA) Composite List of Hazardous Wastes and Appendix VIII Hazardous Constituents (40 CFR 261):**

If discarded in its purchased form, this product would not be a hazardous waste either by listing or by 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)

### **State Right-To –Know Information**

The following chemicals are specifically listed by individual states; other products specific health and safety data in other sections of the MSDS may also requirements. For details on your regulatory requirements you should contact the appropriate agency in your state.

### **Massachusetts, New Jersey or Pennsylvania Right to Know Substance Lists:**

<b><u>Weight %</u></b>	<b><u>Components</u></b>	<b><u>CAS-No.</u></b>
1 – 100%	Copolyester	Not available



## MATERIAL SAFETY DATA SHEET

### SECTION 16: OTHER INFORMATION

#### **MSDS Disclaimer**

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