



MATERIAL SAFETY DATA SHEET

SECTION 1: INFORMATION ON COMPOSITION

PRODUCT NAME: EMA Thermoforming Disc

PRODUCT USE: Myerson's sleep better products

COMPANY NAME: MYERSON LLC

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USA

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REVISION DATE: April 29th 2011

CHEMICAL FAMILY: Thermoplastic Polymer Sheet

CHEMICAL NAME: Co polyester



MATERIAL SAFETY DATA SHEET

SECTION 2: HAZARDS IDENTIFICATION

Emergency Overview

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

Melted product is flammable and produces 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 SYMPTOMS OF OVEREXPOSURE

Skin : Contact with heated material can cause thermal burns

Eye: May cause mechanical irritation.



MATERIAL SAFETY DATA SHEET

General Effects of Exposure

Acute Effects of Exposure

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

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

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Components

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

SECTION 4: FIRST AID MEASURES

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



MATERIAL SAFETY DATA SHEET

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

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 (CO₂)

Special Fire Fighting Procedures



MATERIAL SAFETY DATA SHEET

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.

SECTION 6: ACCIDENTAL RELEASE MEASURES

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

SECTION 7: HANDLING AND STORAGE

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.



MATERIAL SAFETY DATA SHEET

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

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 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-m³ – total dust, 5 mg/m³ - respirable fraction is recommended. In addition, the ACGIH recommend 3 mg/m³ – respirable particles and 10mg/m³ - 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



MATERIAL SAFETY DATA SHEET

use and handling of this product. Purgings should be collected as small flat thin shapes or thin strands to allow for rapid cooling.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Form:	Solid
Appearance:	Sheets
Color:	Tint
Odor:	Slight
pH:	Not applicable
Melting Point:	220 – 250° C (428 – 482°F)
Boiling Point/Range:	Not applicable
Flash Point:	>450° C (>842 °F)
Lower Explosion Limit:	Not Established
Upper Explosion Limit:	Not Established
Vapor Pressure:	Not applicable
Specific Gravity:	Approximately 1.1 – 1.2



MATERIAL SAFETY DATA SHEET

Solubility in Water:	Insoluble
Auto-ignition Temperature:	>450 °C (>842° F)
Decomposition Temperature:	380°C (716 °F)
Softening Point:	102 – 113° C (215.6 – 235.4°F)
Bulk Density:	38 – 42 lb/ft ³

SECTION 10: STABILITY AND REACTIVITY

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



MATERIAL SAFETY DATA SHEET

SECTION 11: TOXICOLOGICAL INFORMATION

Toxicity Data for Copolyester

Acute Oral Toxicity

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

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

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



MATERIAL SAFETY DATA SHEET

SECTION 12: ECOLOGICAL INFORMATION

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)

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal Method

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



MATERIAL SAFETY DATA SHEET

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



MATERIAL SAFETY DATA SHEET

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:

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



MATERIAL SAFETY DATA SHEET

SECTION 16: OTHER INFORMATION

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