

Section 1. Identification

Bay Materials, LLC 48450 Lakeview Blvd Fremont, CA 94538 (650) 566-0800

Product Family: Thermoplastic Polymer

Trade Name(s): Zendura AT

Other Means of Identification: CAS# 111211-39-3

Recommended Uses: May be used as received, processed or thermoformed to produce other articles, or as a component of other products.

Emergency Phone Number
for Spill, Leak, Fire, Exposure, or Accident
Call CHEMTREC Day or Night
1-800-424-9300

Section 2. Hazard(s) Identification

EMERGENCY OVERVIEW			HMIS	NFPA
Hazard Classification	Non-hazardous solid	HEALTH	0	0
		FLAMMABILITY	1	1
Signal Word	No signal word	REACTIVITY	0	0
Pictogram	No Pictogram	OTHER		
Hazard Statement				
Precautionary Statement				

Primary Routes of Exposure	Eyes or skin contact
Potential Health Effects	
Acute Effects	
Inhalation	Processing fumes may cause irritation to the eyes, skin and respirator tract. In cases of severe exposure, nausea and headache can also occur. Grease-like processing fume condensates on ventilation ductwork, molds, and other surfaces
Skin Contact	Not likely to cause irritation
Eye contact	Resin particles or dust are mechanically irritating
Ingestion	Ingestion not likely due to physical form
Chronic effects	Ongoing exposure may aggravate acute effects
Carcinogenicity	See Section 11
Medical conditions aggravated by long term exposure	There are no known health effects aggravated by exposure to this product. However certain sensitive individuals or individuals with respiratory impairments may be affected by exposure to components in the processing vapors

Section 3. Composition/Information on Ingredients

Component: Carbonic dichloride, polymer with 4,4'-(1-methylethylidene)bis(phenol), 4-(1-methyl-1-phenylethyl)phenyl ester
CAS Number: 111211-39-3
Percentage: 100(+/-)

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Section 4. First-Aid Measures

- Skin Contact:** Wash with water and soap as a precaution. Get medical attention if irritation develops or persists. For hot product, immediately immerse in or flush affected area with large amounts of cold water to dissipate heat. Cover with clean cotton sheeting or gauze and get prompt medical attention.
- Eye Contact:** Immediately flush with plenty of water. After initial flushing remove any contact lenses and continue flushing for at least 15 minutes if eye irritation persists, consult a specialist.
- Inhalation:** If exposed to excessive levels of dusts or fumes, remove to fresh air and get medical attention if cough or other symptoms develop.
- Ingestion:** No hazards which require special first aid measures.

Section 5. Fire-Fighting Measures

Explosive limits:

Upper: Not applicable

Lower: Not applicable

Suitable extinguishing media:

Water spray mist or foam.

Extinguishing media not to be used for safety reasons:

Carbon dioxide or dry chemical are not recommended because of their lack of cooling capacity may permit re-ignition.

Hazard from combustion products:

Fire will produce dense black smoke containing hazardous combustion product, carbon oxides, hydrocarbon fragments.

Special Protective Equipment for Firefighters:

Do not enter fire area without proper protection including self-contained breathing apparatus and fully protective equipment. Fight fire from a safe distance and a protected location due to the potential hazardous vapors and decomposition products

Section 6. Accidental Release Measures

Refer to Section 8: Exposure Control and Personal Protection

Emergency Action:

No special environmental precautions required.

Spill/Leak Procedure:

Containment of this material should not be necessary. Sweep up or gather material and place in appropriate container for disposal

Section 7. Handling and Storage

Handling:

Handle in accordance with good industrial hygiene and safety practice. Provide for appropriate exhaust ventilation and dust collection machinery. Avoid dust formation. Accumulation of waste films, or sheets may create a slipping hazard.

Storage:

Keep away from heat, sparks, and flame. Store in a cool place in original container and protect from sunlight.

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Section 8. Exposure Controls / Personal Protection

Hand Protection:

Protective gloves

Eye Protection:

Safety glasses

Respiratory Protection:

When using this product at elevated temperatures implement engineering systems, administrative controls or a respiratory protection program (including a respirator approved for protection from organic vapors acid gases and particulate material) if processing fumes are not adequately controlled or operators experience symptoms of overexposure. If dust or powder are produced from secondary operations such as sawing or grinding, use a respirator approved for protection from dust

Skin and Body Protection:

Long sleeved clothing

Hygiene Measures:

When using, do not eat, drink or smoke.

Section 9. Physical and Chemical Properties

Appearance	Solid, clear or off-white color
Odor:	Mild, waxy
Odor threshold:	Not determined
pH:	Not applicable
Melting/freezing point:	220-250°C
Boiling Point	: Not determined
Flash point:	Not applicable
Evaporation Rate:	Not applicable
Flammability (solid, gas):	
Flashpoint:	Not applicable
Upper:	Not applicable
Lower:	Not applicable
Vapor pressure:	Not applicable
Vapor density (Air = 1):	Not applicable
Relative density:	Not determined
Solubility(ies):	Not soluble in water
Specific Gravity (@ 60F)	1.2 or greater
Partition coefficient: n-octanol/water:	Not determined
Auto-ignition temperature:	Not applicable
Decomposition temperature:	Not determined
Viscosity	: Not applicable

Section 10. Stability and Reactivity

Reactivity: Stable under normal conditions. Hazardous polymerization does not occur.

Chemical Stability: Stable under normal conditions of storage and use. Avoid exposure to open flame.

Conditions to Avoid: Do not exceed 200 C during thermoforming.

Hazardous Reactions/Decomposition Products: Materia does not decompose at ambient

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Section 11. Toxicological Information

Acute ToxicityL

LD50/oral/rat: >5000 mg/kg, estimated

LD50/dermal/rabbit: >2000 mg/kg, estimated

Inhalation: Inhalation unlikely due to physical form.

Eye Contact: Particles are mechanically irritating.

Skin Contact: Not likely to cause irritation.

Ingestion: Ingestion not likely due to physical form.

Chronic Toxicity: No information available

ACGIH Not listed

IARC: Not listed

OSHA: Not regulated

NTP: Not tested

Further information: This product has no known adverse effect on human health.

Section 12. Ecological Information

Ecotoxicity: No known or expected ecotoxicity

Persistence and Biodegradability: Not determined

Bioaccumulative Potential: Not determined

Mobility in Soil: Not determined

Section 13. Disposal Considerations

Waste disposal:

Recycling is encouraged. Landfill or incinerate in accordance with federal, state and local requirements.

Collected processing fuel condensates and incinerator ash should be tested to determine waste classification.

US EPA Waste Number: None

Section 14. Transport Information

Transportation Classification: Not regulated as hazardous for shipment.

UN Proper Shipping Name/Number: Not regulated

D.O.T. 49 CFR 172.01 Not regulated

TDG: Not regulated

IMDG: Not regulated

IATA: Not regulated

Section 15. Regulatory Information

International Inventories: These films and sheet products are considered articles and thus exempt from inventory listing.

CERCLA/SARA 311/312/313 (40 CFR 370) This product is non-hazardous article and therefore not subject to the requirements of Title III of SARA (Emergency Planning and Community Right-To-Know Act.)

WHMIS hazard class: Non-controlled

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California Proposition 65: This product does not contain components known to the State of California to cause cancer and/or reproductive effects.

RoHS EU Directive 2002/95/EC: This product complies with RoHS – It does not intentionally contain banned chemicals.

Section 16. Other Information

Zendura Thermoformable sheet is a registered trademark of Bay Materials, LLC

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