

## Material Safety Data Sheet



### SECTION 1: Product and Company Identification

Avery Dennison  
Reflective Films Division  
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Monday – Friday, 8:00am – 6:00pm EST  
Company Phone Number: (847) 647-7717  
Company Toll Free: (800) 327-5917  
**24-Hour Medical Emergency: 911**  
**24-Hour Chemical Emergency: (800) 424-9300**

Product Name: T-9500 Omni-View Series  
Alternate Names: High Performance Prismatic Sheeting,

Product Codes:

T-9500, White	T-9507, Green	T-9513, Fluorescent Yellow-Green
T-9501, Yellow	T-9508, Red	W-9514, Fluorescent Orange
T-9505, Blue	T-9511, Fluorescent Yellow	

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### SECTION 2: Hazardous Identification

#### Emergency Overview

Appearance: Flexible sheets of polymer, which are White, Yellow, Blue, Green, Red, Fluorescent Yellow, Fluorescent Yellow-Green or Fluorescent Orange in color and may emit a slight odor.

**Below decomposition temperature, this product has no significant health or toxic hazards.**

#### WARNING

Effects of Over-exposure: heating above 500°F produces hazardous fumes. Fumes from decomposition are toxic when inhaled and are irritating to mucous membranes.

Potential Health Effects: (See Section 11 for more information)

Likely Routes of Exposure: Eye Contact, Skin Contact, and Inhalation

Eye: May Cause Slight Irritation

Skin: May Cause Slight Irritation

Inhalation: Dust formed by grinding sawing, cutting, etc. the OSHA-PEL for nuisance dust of 15mg/m<sup>3</sup>-total dust, 5 mg/m<sup>3</sup>-respirable dust is recommended.

Chronic Effects: None Known

Medical Conditions Aggravated by Exposure: None Known

This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

The material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Potential Environmental Effects: Not considered to be harmful to aquatic life.

### **SECTION 3: Composition / Information on Ingredients**

Ingredient	CAS #	Weight %	Exposure Limits	
			OSHA/TWA	ACGIH/TWA
P (EA/MMA)	9010-88-2	> 49%	None	None
Methyl Methacrylate	80-62-6	< 0.2%	100 ppm	100 ppm
Bisphenol A Polycarbonate	25971-63-5	> 49%	None	None
Methylene Chloride	75-09-2	< 0.1%	3 ppm	3 ppm

### **SECTION 4: First Aid Measures**

Eye or Skin Contact: Flush with water. See physician if irritation persists.

Inhalation: Remove to fresh air.

Ingestion: This is not a likely route of exposure. However, if material is ingested, do not induce vomiting. Contact a physician.

### **SECTION 5: Fire Fighting Measures**

Suitable Extinguishing Media: Foam, CO<sub>2</sub>, Dry Chemical, and Water Fog.

Unsuitable Extinguishing Media: Alcohol Foam

Products of Combustion: Carbon Monoxide, Carbon Dioxide, Bisphenol A, Diphenyl carbonate and phenol derivatives.

Protection of Firefighters: Firefighters should wear a positive pressure self-contained breathing apparatus and remain upwind when possible.

Unusual Fire and Explosion Hazards: This material is combustible. Burns vigorously with intense heat.

Auto-Ignition Temperature: 300°C \ 716°F

Flash Point: Not Applicable

UEL: Not Applicable

LEL: Not Applicable

### **SECTION 6: Accidental Release Measures**

Personal Precautions: Product is stable polymer and requires no personal protection when at room temperature.

Environmental Precautions: Not classified as hazardous waste.

Methods of Containment: Product is stable solid and can be contained by mechanical means.

Methods for clean up: Spills can be cleaned by vacuum, sweeping, or shovel.

Waste Disposal Method: In accordance with federal, state, and local regulations. Not classified as hazardous waste.

### **SECTION 7: Handling and Storage**

#### Handling

Keep away from temperatures in excess of 200 °F. Use grounding and bonding apparatus when rolling and unrolling material to prevent static discharge.

#### Storage

Store in temperatures between 68° F and 77°F (20°C and 25°C) and relative humidity of 50% ± 5%±.

### **SECTION 8: Exposure Controls / Personal Protection**

#### Exposure Guidelines

P (EA/MMA)	OSHA/TWA: None	ACGIH/TWA: None
Methyl Methacrylate	OSHA/TWA: 100ppm	ACGIH/TWA: 100ppm
Bisphenol A Polycarbonate	OSHA/TWA: None	ACGIH/TWA: None
Methylene Chloride	OSHA/TWA: 3ppm	ACGIH/TWA: 3ppm

The following are considered good industrial hygiene practices.

Engineering Controls: Local exhaust required in the vicinity of hot processing.

Eye/Face Protection: Safety glasses are recommended as a good safety and industrial hygiene practice.

Skin Protection: Wear cloth gloves if desired.

Respiratory Protection: None needed.

General Hygiene Considerations: There are no known hazards associated with this material when used as recommended. Following general hygiene considerations are recognized as common good industrial hygiene practices. Wash thoroughly after handling and before eating or drinking.

### **SECTION 9: Physical and Chemical Properties**

Appearance: Reflective, optical polymer with liner and pressure-sensitive adhesive.

Odor: Slight (Not Toxic)

Odor threshold: Not Applicable

pH: Not Applicable

Melting Point: 132°C / 270°F (Minimum pour point)

Softening Point: 150°C / 302°F

Boiling Point: Not Applicable

Flash Point: Not Applicable

Evaporation Rate: Not Applicable

Vapor Pressure: Not Applicable

Vapor Density (Air = 1): Not Applicable

Specific Gravity: 1.10 – 1.25 (Water = 1.00)

Solubility (water): None

Auto-Ignition Temperature: 716°F

Decomposition Temperature: 716°F

Volatiles: Vol %: < 1%          Wgt %: < 1%

### **SECTION 10: Stability and Reactivity**

Stability: Stable

Hazardous Polymerization: Will Not Occur

Conditions to Avoid: Excessive Heat, >500°F

Incompatible Materials: Avoid contact with acids, alkalis, and strong oxidizers.

Hazardous Decomposition Products: Methyl methacrylate monomer and Carbon Monoxide

### **SECTION 11: Toxicological Information**

Toxicity Data for: Bisphenol A Polycarbonate

Acute Effects: Gases and fumes evolved during thermal decomposition of similar products have caused respiratory irritation in mice, as reported in Toxicologic evaluation of thermoplastic resins at and above processing temperature, G.K. Sangha, M. Matijak and Y. Alarie, Department of Industrial Environmental Health Sciences, Graduate School of Public Health, University of Pittsburgh, Pittsburgh, PA, 15216, AIDA Journal (42), July 1981.

### **SECTION 12: Ecological Information**

No ecological information available.

**SECTION 13: Disposal Considerations**

Disposal: Dispose of in accordance with federal, state and local regulations. Not classified as hazardous waste.

**SECTION 14: Transportation Information**

Technical Shipping Name: Retroreflective Sheeting

DOT Domestic Hazard Class or Division: Non-Regulated

IMO/IMDG (Ocean): Non-Regulated

ICAO/IATA (Air): Non-Regulated

**SECTION 15: Regulatory Information**

OSHA Status: This material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

**SECTION 16: Other Information**

None

THE INFORMATION CONTAINED HEREIN IS CORRECT TO THE BEST OF OUR KNOWLEDGE. THE RECOMMENDATIONS AND SUGGESTIONS CONTAINED IN THIS BULLETIN ARE MADE WITHOUT GUARANTEE OR REPRESENTATION AS TO RESULTS. IF POSSIBLE, WE SUGGEST THAT YOU EVALUATE THESE RECOMMENDATIONS AND SUGGESTIONS PRIOR TO USE.