

**SAFETY DATA SHEET**  
**VIVAK® Copolyester**

**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/ UNDERTAKING**

Trade Name: VIVAK® Copolyester

Other Name(s): Thermoplastic polymer sheet

Usage: Plastic sheet products including signage, point of purchase displays, and photo frames.

Supplier: Plaskolite, Inc.  
1770 Joyce Avenue, Columbus, Ohio 43219, USA  
Telephone: 614-294-3281

Contact: Plaskolite Environmental, Health & Safety

Emergency Telephone: 614-294-3281

**2. HAZARDS IDENTIFICATION**

Under normal conditions of use, this product is not expected to create any unusual industrial hazards. 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. Contact with hot material will cause thermal burns.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical Characterization: Copolyester [CAS# is a trade secret]  
Impurities: None

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

**4. FIRST AID MEASURES**

Inhalation: Move to fresh air in case of accidental inhalation of dust or fumes from overheating or combustion.

Skin Contact: Cool melted product on skin with plenty of water. Do not remove solidified product. Get medical attention if thermal burn occurs.

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

Ingestion: Get medical attention.

**5. FIRE-FIGHTING MEASURES**

Suitable Extinguishing Media: Dry water fog, dry chemical, carbon dioxide (CO2)

Specific Hazards in Case of Fire: Toxic and irritating gases/fumes may be given off during burning or thermal decomposition.

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## Special Protective Equipment and

Precaution for Fire Fighters: Firefighters should be equipped with self-contained breathing apparatus to protect against potentially toxic and irritating fumes.

**6. ACCIDENTAL RELEASE MEASURES**

Personal Precaution: If molten, allow material to cool and place into an appropriate marked container for disposal. Do not breathe vapors or dust.

Environmental Precaution: Do not release into the environment, such as into drains.

## Methods and Materials for

Containment and Cleaning Up: Sweep up and shovel into suitable containers for disposal.

**7. HANDLING AND STORAGE**

## Storage Temperature

Maximum: 120.2°F (49°C)

Precautions for Safe Handling: Handle in accordance with good industrial hygiene and safety practices. Wash thoroughly after handling. Avoid creating dust.

Conditions for Safe Storage,  
including Incompatibilities:

Containers should be tightly closed to prevent contamination with foreign materials and moisture. Protect equipment (e.g. storage bins, conveyors, dust collectors) with explosion vents.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

Control Parameters: Specific exposure limits have not been established or are not applicable

Ventilation Measures: General dilution and local exhaust as necessary to control airborne vapors, mists, dusts and thermal decomposition products below appropriate airborne concentration standards/guidelines, especially during cutting, grinding and high heat operations.

Respiratory Protection: In the case of dust or aerosol formation use respirator with an approved filter.

Hand Protection: Wear heat resistant gloves when handling molten 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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Physical State:	Solid sheets
Color:	Transparent
Odor:	Odorless
Odor Threshold:	Not applicable
pH:	Not applicable
Melting Point:	Not available
Freezing Point:	Not available
Initial Boiling Point:	Not available
Flash Point:	> 842°F (> 450°C)
Evaporation Rate:	Not applicable
Flammability (solid, gas):	Not applicable
Explosion Limits:	Not available
Vapor Pressure:	Not applicable
Vapor Density:	Not applicable
Relative Density:	Approximately 0.6087
Solubility:	Insoluble
Partition Coefficient:	Not applicable
Auto-ignition Temperature:	> 842°F (> 450°C)
Decomposition Temperature:	Approximately 716°F (380°C)

**10. STABILITY AND REACTIVITY**

Chemical Stability:	Stable
Possibility of Hazardous Reactions:	Hazardous polymerization does not occur.
Conditions to Avoid:	None known
Materials to Avoid:	None known
Hazardous Decomposition Products: <i>By Fire and Thermal Decomposition:</i>	Phenol; Carbon oxides, Hazardous decomposition products due to incomplete combustion.

**11. TOXICOLOGICAL INFORMATION***Human Effects and Symptoms of Overexposure*

Acute Skin:	Contact with heated material can cause thermal burns.
Acute Ingestion:	Ingestion is not a typical route of industrial exposure.
<i>General Effects of Exposure</i> 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

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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 irritating

Eye Irritation: Rabbit, Slightly irritating  
Guinea pig, Non-irritating

**12. ECOLOGICAL INFORMATION**

Ecotoxicity: This product should have low toxicity to aquatic and terrestrial organisms.

Persistence and Degradability: This product is non-biodegradable in soil, and there is no evidence of degradation in soil and water.

Bioaccumulative Potential: Due to the insoluble nature of this solid product, it has low potential for bioaccumulation.

Mobility in Soil: Due to the solid nature of this product, it should have low mobility in soil.

*Ecological Data for Copolyester*

Acute and Prolonged  
Toxicity to Fish: LC50: > 100 mg/l (Fathead minnow (*Pimephales promelas*), 96 h)

Acute Toxicity to Aquatic  
Invertebrates: LC50: > 100 mg/l (Water flea (*Daphnia magna*), 96 h)

**13. DISPOSAL CONSIDERATIONS**

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

**14. TRANSPORT INFORMATION**

Land Transport (DOT): Non regulated

Sea Transport (IMDG): Non regulated

Air Transport (ICAO/IATA): Non regulated

**15. REGULATORY INFORMATION**

OSHA Hazard  
Communication Standard: Non-Hazardous

Toxic Substances Control Act: Listed on the TSCA Inventory.

CERCLA Hazardous  
Substances (40 CFR 302): None

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SARA Section 311/312: Non-hazardous under Section 311/312

SARA Section 302 Extremely  
Hazardous Substances  
(40 CFR 355, Appendix A): NoneSARA Section 313 Toxic  
Chemicals (40 CFR 372.65): NoneRCRA Hazardous Wastes  
(40 CFR 261): Under RCRA, it is the responsibility of the person who generates a solid waste, as defined in 40 CFR 261.2, to determine if that waste is a hazardous waste**16. OTHER INFORMATION***Hazardous Materials Identification System (HMIS) Rating*Health: 0  
Flammability: 1  
Physical Hazard: 0

## Hazard Scale:

0 = Minimal Insignificant; 1 = Slight; 2 = Moderate; 3 = Serious/High; 4 = Extreme

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SDS Revision Date:

The information presented herein is believed to be factual and reliable. It is offered in good faith, but without guarantee, since conditions and methods for the use of our products are beyond our control. We recommend that the prospective user determine the suitability of our products and these suggestions before adopting them on a commercial scale.

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