# **MATERIAL SAFETY DATA SHEET**

# Sheffield Plastics Inc.



Sheffield Plastics Inc. 119 Salisbury Road Sheffield, MA 01257

USA

TRANSPORTATION EMERGENCY

CALL CHEMTREC: (800) 424-9300 INTERNATIONAL: (703) 527-3887

NON-TRANSPORTATION

Bayer Emergency Phone: (412)-923-1800 Bayer Information Phone: (800) 662-2927

# 1. Product and Company Identification

Product Name: Vivak® Copolyester Sheet

Material Number: SH004486

Chemical Family: Thermoplastic Polymer Sheet

Chemical Name: Copolyester

#### 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**

<u>Skin</u>

Acute Skin

For Product: Vivak® Copolyester Sheet

Contact with heated material can cause thermal burns.

Eye

Acute Eye

For Product: Vivak® Copolyester Sheet

May cause mechanical irritation.

# **General Effects of Exposure**

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#### **Acute Effects of Exposure**

# For Product: Vivak® Copolyester Sheet

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**

# For Product: Vivak® Copolyester Sheet

Not expected to cause any adverse chronic health effects.

# **Carcinogenicity:**

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

# 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.

#### 4. First Aid Measures

## **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.

#### Inhalation

If inhaled, remove to fresh air.

# Ingestion

Get medical attention.

# 5. Fire-Fighting Measures

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

# **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 or thermal decomposition. Dust may form explosive mixtures with air.

## 6. Accidental release measures

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#### Spill and Leak Procedures

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

# 7. Handling and Storage

**Storage Temperature:** 

**maximum:** 77 °C (170.6 °F)

# **Storage Period**

Not Established

# **Handling/Storage Precautions**

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.

## 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, mists, dusts and thermal decomposition products below appropriate airborne concentration standards/guidelines, especially during cutting, grinding and high heat operations.

# **Respiratory Protection**

Although no exposure limit has 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 recommends 3 mg/m3 - respirable particles and 10 mg/m3 - inhalable particles for Particles (insoluble or poorly soluble) Not Otherwise Specified (PNOS).

# **Hand Protection**

Wear heat resistant gloves when handling molten material.

#### **Eve 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.

# 9. Physical and chemical properties

Form: solid Appearance: sheets

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Color: tint 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

**Solubility in Water:** Insoluble

**Autoignition 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/ft3

# 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

# 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 irritating

#### **Eve Irritation**

rabbit, Slightly irritating Guinea pig, Non-irritating

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# 12. Ecological Information

# **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 Method

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

# 14. Transportation information

# **Land transport (DOT)**

Non-Regulated

# Sea transport (IMDG)

Non-Regulated

# Air transport (ICAO/IATA)

Non-Regulated

## 15. Regulatory Information

## **United States Federal Regulations**

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

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

## US. EPA CERCLA Hazardous Substances (40 CFR 302):

#### Components

None

# SARA Section 311/312 Hazard Categories:

Non-hazardous under Section 311/312

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

None

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# US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 313 Toxic Chemicals (40 CFR 372.65) - Supplier Notification Required: **Components**

None

# US. EPA Resource 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 product specific health and safety data in other sections of the MSDS may also be applicable for state 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:

Weight % **Components** CAS-No.

1 - 100% Copolyester CAS# is a trade secret

## 16. Other Information

**HMIS Rating** 

Health	0
Flammability	1
Physical Hazard	0

0=Minimal 1=Slight 2=Moderate 3=Serious 4=Severe

The method of hazard communication for Sheffield Plastics Inc. is comprised of Product Labels and Material Safety Data Sheets. HMIS and NFPA ratings are provided by Sheffield Plastics Inc. as a customer service.

Contact Person: **Product Safety Dapartment** 

Telephone: (412) 777-2835 MSDS Number: 000000004486 12/04/2008 Version Date:

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<sup>\* =</sup> Chronic Health Hazard