



# Safety Data Sheet

Product Name: ORIENTED POLYSTYRENE SHEET AND FILM

ID: 1388

**\*\*\* Section 1 - Chemical Product and Company Identification \*\*\***

**Chemical Formula:** Styrene Resin Blend  
**Product Use:** Food and Non Food Related packaging  
**Other Designations:** OPS

**MULTI PLASTICS, INC.**  
7770 N Central Drive  
Lewis Center, OH 43035

**Phone:** 740-548-4894  
**Fax:** 740-548-5177

**Manufacturer/Supplier**  
Multi-Plastics Extrusion  
600 Dietrich Ave.  
Hazleton, Pa. 18201

**Emergency Information:** USA: Chemtrec: 1-800-424-9300 or 1-703-527-3887

**\*\*\* Section 2 - Hazards Identification \*\*\***

## EMERGENCY OVERVIEW

Solid, flexible plastic. Clear or various colors. Plastic odor. Dust clouds generated during processing may be explosive. Material burns vigorously and releases a dense, black smoke.

Dust and fume from processing can cause irritation of eyes, skin, and upper respiratory tract. Contact with molten material can cause thermal burns.

## POTENTIAL HEALTH EFFECTS

**If dusts or fumes are generated by processing or if polymer is heated to melting:**

### Eyes

Can cause irritation

### Skin

Can cause irritation. Contact with molten material can cause thermal burns.

### Inhalation

Can cause irritation of upper respiratory tract.

## Health Effects of Ingredients

As supplied, the colorants in this material are bound into the polymeric matrix and will not be released through skin contact or under anticipated conditions of use. However, if the material is processed in such a manner (i.e., grinding) that large quantities of fine dusts are generated or the material is burned, a potential for exposure to dust containing the colorants may be created.

## Medical Conditions Aggravated By Exposure to the Product and/or Components

Dust from processing: Asthma, chronic lung disease, and skin rashes.

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## \*\*\* Section 3 - Composition / Information on Ingredients \*\*\*

Complete composition is provided below and may include some components classified as non-hazardous.

CAS #	Component	Percent
9003-53-6	Polystyrene	40-98
9003-55-8	Styrene-butadiene copolymer	0-60
8042-47-5	White mineral oil	0-3
	Colorants	0-5
Proprietary	Proprietary colorants	<1
Proprietary	Proprietary topical coating	<1

## \*\*\* Section 4 – First Aid Measures \*\*\*

### First Aid: Eyes

Dust from processing: Flush eyes with plenty of water or saline for at least 15 minutes. Consult a physician.

### First Aid: Skin

Dust from processing: Wash skin with soap and water for at least 15 minutes. Consult a physician if irritation persists. Molten polymer: If molten material gets on skin, cool rapidly with cold water. Do not attempt to peel material from skin. Get medical treatment for thermal burns.

### First Aid: Inhalation

Dust from processing: Remove to fresh air. If unconscious or severely injured, check for clear airway, breathing and presence of pulse. Perform CPR if there is no pulse or respiration. Consult a physician.

## \*\*\* Section 5 – Fire Fighting Measures \*\*\*

### Flammable/Combustible Properties

Material burns vigorously and releases a dense, black smoke.

### Fire/Explosion

Dust or fines dispersed in the air can be explosive.

### Extinguishing Media

Use dry chemical, water spray (fog), foam or carbon dioxide extinguishing agents. Manual fire fighting may be difficult due to the presence of thick smoke.

### Fire Fighting Equipment/Instructions

Fire fighters should wear NIOSH approved, positive pressure, self-contained breathing apparatus and full protective clothing when appropriate.

## \*\*\* Section 6 – Accidental Release Measures \*\*\*

### Small/Large Spill

Use dry cleaning procedures. Recover using mechanical means.

## \*\*\* Section 7 – Handling and Storage \*\*\*

### Handling/Storage

Good housekeeping practices should be employed. Avoid generating dust.

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## \*\*\* Section 8 – Exposure Controls / Personal Protection \*\*\*

### Engineering Controls

If dust is generated through processing: Use with adequate ventilation to meet the limits listed in Section 8, Exposure Guidelines.

### Personal Protective Equipment

#### Respiratory Protection

If dust is generated through processing: Use NIOSH-approved respiratory protection as specified by an Industrial Hygienist or other qualified professional. Suggested respiratory protection: N95

#### Eye Protection

Wear safety glasses/goggles to avoid eye injury.

#### Skin Protection

Wear appropriate gloves to avoid any skin injury.

### Exposure Guidelines

#### A: General Product Information

The ACGIH and OSHA have not developed exposure limits for this product.

#### B: Component Exposure Limits

ACGIH and OSHA have not developed exposure limits for any of this product's components.

## \*\*\* Section 9 – Physical & Chemical Properties \*\*\*

**Physical State:** Solid

**Boiling Point:** Not applicable

**Vapor Pressure:** Not applicable

**Solubility in Water:** Insoluble

**Density:** Not determined

**Odor:** Plastic odor

**Octanol-Water Coefficient:** Not applicable

**Appearance:** Clear or colored plastic

**Melting Point:** Not determined

**Vapor Density:** Not applicable

**Specific Gravity:** Not determined

**pH Level:** Not applicable

**Odor Threshold:** Not determined

## \*\*\* Section 10 – Chemical Stability & Reactivity Information \*\*\*

### Stability

Stable under normal conditions of use, storage, and transportation.

### Conditions to Avoid

Strong oxidizers, and aromatic and chlorinated hydrocarbons.

### Hazardous Decomposition

Carbon monoxide, carbon dioxide, aldehydes and other partially oxidized hydrocarbons.

**Hazardous Polymerization:** Will not occur.

## \*\*\* Section 11 – Toxicological Information \*\*\*

### Health Effects of Ingredients

**A: General Product Information:** No information available for product. **B:**

#### Component Analysis - LD50/LC50

**White mineral oil (8042-47-5)**

Oral LD50 Rat: >5000 mg/kg

### Carcinogenicity

#### A: General Product Information

None of the components of this product are listed as carcinogenic by IARC, NTP or OSHA. References to studies are listed below.

#### B: Component Carcinogenicity Classifications and References

##### Polystyrene (9003-53-6)

IARC Supplement 7, 1987; Monograph 19, 1979

##### Styrene-butadiene copolymer (9003-55-8)

IARC Supplement 7, 1987; Monograph 19, 1979

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## \*\*\* Section 12 – Ecological Information \*\*\*

### Ecotoxicity

**A: General Product Information:** No information available for product. **B:**

### Component Analysis - Ecotoxicity - Aquatic Toxicity

White mineral oil (8042-47-5) 96 Hr LC50 Lepomis macrochirus: >10000 mg/L

**Environmental Fate:** No information available for product.

## \*\*\* Section 13 – Disposal Considerations \*\*\*

### Disposal Instructions

Reuse or recycle material whenever possible. Material may be disposed of at a sanitary landfill.

### US EPA Waste Number & Descriptions

#### A: General Product Information

Not federally regulated in the U.S. if disposed of "as is." Otherwise, characterize in accordance with applicable regulations (40 CFR 261 or state equivalent in the U.S.)

#### B: Component Waste Numbers

RCRA waste codes other than described under Section A may apply depending on use of product. Refer to 40 CFR 261 or state equivalent in the U.S.

## \*\*\* Section 14 – Transportation Information \*\*\*

### Special Transportation

	PSN #1	PSN #2	PSN #3	PSN #4
Notes:	(1)			
Proper Shipping Name:	Not regulated			
Hazard Class:	-			
UN NA Number:	-			
Packing Group:	-			
RQ:	-			
Other - Tech Name:	-			
Other - Marine Pollutant:	-			

### Notes:

(1) When "Not regulated", enter the proper freight classification, "MSDS Number", and "Product Name" on the shipping paperwork.

Canadian TDG Hazard Class & PIN: Not regulated

## \*\*\* Section 15 – Regulatory Information \*\*\*

### US Federal Regulations

#### A: General Product Information

In reference to Title VI of the Clean Air Act of 1990, this material does not contain nor was it manufactured using ozone-depleting chemicals.

#### B: Component Analysis

None of the components are listed under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), or CERCLA (40 CFR 302.4).

#### SARA 311/312 Physical and Health Hazard Categories:

Immediate (acute) Health Hazard: No

Delayed (chronic) Health Hazard: No

Fire Hazard: No

Sudden Release of Pressure: No

Reactive: No

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## State Regulations

### A: General Product Information

No information available for product.

### B: Component Analysis - State

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS #	CA	FL	MA	MN	NJ	PA
Polystyrene	9003-53-6	No	No	No	No	Yes	No

## Other Regulations

### A: General Product Information

No information available for product.

### B: Component Analysis - WHMIS IDL

No components are listed in the WHMIS IDL.

### C: Component Analysis - Inventory

Component	CAS #	TSCA	DSL	EINECS	AUST.	MITI
Polystyrene	9003-53-6	Yes	Yes	No	Yes	Yes
Styrene-butadiene copolymer	9003-55-8	Yes	Yes	No	Yes	Yes
White mineral oil	8042-47-5	Yes	Yes	Yes	Yes	No

## \*\*\* Section 16 – Other Information \*\*\*

### MSDS History

Original: March 15, 2008

Revised: April 24, 2015

Supersedes: July 20, 2013

### Other Information

\* Guide to Occupational Exposure Values-2006, Compiled by the American Conference of Governmental Industrial Hygienists (ACGIH).

\* Documentation of the Threshold Limit Values and Biological Exposure Indices, Sixth Edition, 1991, Compiled by the American Conference of Governmental Industrial Hygienists, Inc. (ACGIH).

\* NIOSH Pocket Guide to Chemical Hazards, U.S. Department of Health and Human Services, February 2004.

\* Patty's Industrial Hygiene and Toxicology: Volume II: Toxicology, 4th ed., 1994, Patty, F. A.; edited by Clayton, G. D. and Clayton, F. E.: New York: John Wiley & Sons, Inc.

\* expub, www.expub.com, Expert Publishing, LLC.

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## Key-Legend:

ACGIH	American Conference of Governmental Industrial Hygienists
AICS	Australian Inventory of Chemical Substances
CAS	Chemical Abstract Service
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CFR	Code of Federal Regulations
CPR	Cardio-pulmonary Resuscitation
DOT	Department of Transportation
DSL	Domestic Substances List (Canada)
EC	Effective Concentration
ED	Effective Dose
EINECS	European Inventory of Existing Commercial Chemical Substances
EPA	Environmental Protection Act
IARC	International Agency for Research on Cancer
LC <sub>50</sub>	Lethal concentration (50 percent kill)
LC <sub>Lo</sub>	Lowest published lethal concentration
LD <sub>50</sub>	Lethal dose (50 percent kill)
LD <sub>Lo</sub>	Lowest published lethal dose
LFL	Lower Flammable Limit
MITI	Ministry of International Trade & Industry
NFPA	National Fire Protection Association
NIOSH	National Institute for Occupational Safety and Health
NTP	National Toxicology Program
OEL	Occupational Exposure Limit
OSHA	Occupational Safety and Health Administration
PEL	Permissible Exposure Limit
PIN	Product Identification Number
PSN	Proper Shipping Name
RCRA	Resource Conservation and Recovery Act
SARA	Superfund Amendments and Reauthorization Act
STEL	Short Term Exposure Limit
TCLP	Toxic Chemicals Leachate Program
TDG	Transportation of Dangerous Goods
TLV	Threshold Limit Value
TSCA	Toxic Substance Control Act
TWA	Time Weighted Average
UFL	Upper Flammable Limit
WHMIS	Workplace Hazardous Materials Information System
atm	atmosphere
cm	centimeter
g, gm	gram
in	inch
kg	kilogram
lb	pound
m	meter
mg	milligram
ml, ML	milliliter
mm	millimeter
mppcf	million particles per cubic foot
n.o.s.	not otherwise specified
ppb	parts per billion
ppm	parts per million
psia	pounds per square inch absolute
u	micron
ug	microgram

INFORMATION HEREIN IS GIVEN IN GOOD FAITH AS AUTHORITATIVE AND VALID; HOWEVER, NO WARRANTY, EXPRESS OR IMPLIED, CAN BE MADE.

This is the end of SDS # 1388