



# MATERIAL SAFETY DATA SHEET

Product Name  
**COPOLYMER SIDING, SHUTTERS & ACCESSORIES**

## Section 1: Chemical Product and Company Information

**Chemical Formula:** Mixture  
**Product Use:** Exterior decorative building product  
**Other Designations:** Shutters, siding, gable vents, ridge vents, fixture mounts, dryer vents, and door & window parts

**Manufacturing Company** Ply Gem Industries 1-800-788-1964  
2600 Grand Blvd., Suite 900  
Kansas City, MO 64108

**Manufacturer:** Mastic Home Exteriors 1-864-489-8136  
100 Cellwood Place  
Gaffney, SC 29340

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

## Section 2: Chemical Composition

CAS #	Component Name	Percent
9002-88-4	Polyethylene	*
9003-07-0	Polypropylene	*
9003-53-6	Polystyrene	*
* Products are composed of a varying mixture of the polymers ranging from 100% of a single material to combinations of all three.		

## Section 3: Hazards Identification

### Emergency Overview:

Solid, Various colors. Not hazardous under recommended conditions of use. Material will burn if ignited. 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

This product is considered an article and does not pose any health hazard under normal conditions of use. The health effects listed below are not likely to occur unless processing or combustion of this product generates dust or fumes.

### If dust or fumes are generated by processing:

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

Skin: Prolonged or repeated contact with skin can cause irritation. Contact with molten material can cause thermal burns.

Inhalation: Can cause irritation of upper respirator tract

Carcinogenicity and Reproductive Hazard: Does not present any cancer or reproductive hazards.

Medical conditions aggravated by exposure to product, components or compounds formed during processing: Asthma, chronic lung disease, and skin rashes



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## Section 4: First Aid Measures

### First Aid: Eyes:

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

### First Aid: Skin:

Dust or fume from processing: Wash skin with soap and water for at least 15 minutes. Consult a physician if irritation persists.

Molten material: 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 or fume 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

While not considered "flammable" or "combustible" as defined by OSHA or DOT, the material will burn vigorously if exposed to a strong ignition source.

### Fire/Explosion:

Dust or fines dispersed in the air can be explosive if subjected to a strong ignition source.

### Extinguishing Media

Use dry chemical, water spray (fog) or foam. 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

No special procedures. Recover using mechanical means.

## Section 7: Handling and Storage

### Handling/Storage:

Avoid generating dust. Store in a cool, dry area.

## Section 8 Exposure Controls / Personal Protection

### Engineering Controls:

Engineering controls are generally not required under recommended conditions of use.

### Personal Protective Equipment

Respiratory Protection: Generally not required under recommended conditions of use.

Eye Protection: When cutting, wear safety glasses and/or goggles to prevent foreign particles from being projected in the eyes.

Skin Protection: Wear appropriate gloves to avoid any skin injury.

### Component Exposure Limits

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



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## Section 9: Physical & Chemical Properties

<b>Physical State:</b> Solid	<b>Appearance:</b> Various colors
<b>Boiling Point:</b> Not applicable	<b>Melting Point:</b> 250-284°F (121-140°C)
<b>Vapor Pressure:</b> Not applicable	<b>Solubility in Water:</b> Insoluble
<b>Density:</b> 1.04 g/cm <sup>3</sup>	<b>pH Level:</b> Not applicable
<b>Odor:</b> None	<b>Octanol-Water Coefficient:</b> Not applicable

## Section 10: Chemical Stability & reactivity Information

<b>Stability:</b> Stable under normal conditions of use, storage, and transportation.
<b>Incompatibility:</b> Strong oxidizers. Some chlorinated and non-chlorinated hydrocarbon solvents.
<b>Hazardous Decomposition:</b> Thermal decomposition products include carbon monoxide and carbon dioxide, and low molecular weight hydrocarbons. During thermal processing, trace amounts of aldehydes, organic acids, and alcohols can also be produced
<b>Hazardous Polymerization:</b> Will not occur.

## Section 11: Toxicological Information

### Acute Toxicity of Ingredients/Formed Compounds

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

B: Component Analysis - **LD50/LC50**

#### Polyethylene (9002-88-4)

Inhalation LC50 Mouse: 12 g/m<sup>3</sup>/30M

C: Formed Compound Toxicity - **LD50s/LC50s:** This material has no components listed.

### Carcinogenicity of Ingredients

A: Ingredient Carcinogenicity - IARC/NTP

Component	CAS	IARC 1	IARC 2A	IARC 2B	IARC 3	IARC 4	NTP K	NTP RA
Polyethylene	9002-88-4	No	No	No	Yes	No	No	No
Polypropylene	9003-07-0	No	No	No	Yes	No	No	No
Polystyrene	9003-53-6	No	No	No	Yes	No	No	No

B: Ingredient Carcinogenicity – ACGIH: None of this product's components are listed by ACGIH.

C: Ingredient References

#### Polyethylene (9002-88-4)

IARC Supplement 7 [1987], Monograph 19 [1979]

#### Polypropylene (9003-07-0)

IARC Supplement 7 [1987], Monograph 19 [1979]

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

IARC Supplement 7 [1987], Monograph 19 [1979]

### Descriptions of IARC and NTP Classifications

**IARC 1:** The agent is carcinogenic to humans. There is sufficient evidence that a causal relationship existed between exposure to the agent and human cancer.

**IARC 2A:** The agent is probably carcinogenic to humans. Generally includes agents for which there is limited evidence of carcinogenicity in humans and sufficient evidence of carcinogenicity in experimental animals.

**IARC 2B:** The agent is possibly carcinogenic to humans. Generally includes agents for which there is limited evidence in humans and less than sufficient evidence in experimental animals.



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## Section 12: Ecological Information

### Ecotoxicity

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

B: Component Analysis - Ecotoxicity - Aquatic Toxicity: No ecotoxicity data was found for this product's components.

C: 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 an industrial landfill.

### US EPA Waste Number & Descriptions

A: General Product Information: RCRA Status: Not federally regulated in the U.S. if disposed of "as is". Otherwise, characterize in accordance with applicable regulations (40 CFR 261 or state equivalents 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 equivalents in the U.S.

## Section 14 - Transportation Information

Special Transportation				
	PSN #1	PSN #2	PSN #3	PSN #4
Notes:	(1)			
UN NA Number:	-			
Proper Shipping Name:	Not regulated			
Hazard Class:	-			
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
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## 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



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**Fire Hazard:** No  
**Sudden Release of Pressure:** No  
**Reactive:** No

## 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.	MTI
Polyethylene	9002-88-4	Yes	Yes	No	Yes	Yes
Polypropylene	9003-07-0	Yes	Yes	No	Yes	Yes
Polystyrene	9003-53-6	Yes	Yes	No	Yes	Yes

## Section 16 - Other Information

**MSDS History:** Original: December 4, 1997  
Supersedes: July 17, 2007  
Revised: December 18, 2007

### MSDS Status

- 02/03/2010: Changes to section 1, manufacturer name, address and phone number.
- 12/18/07: Changes to section 1, manufacturer name, address and phone number.
- 07/17/07: Changes to section 1, manufacturer name, address and phone number.
- 10/19/06: Reviewed on a periodic basis in accordance with Alcoa policy. Changes in Sections 1, 2, 3, 4, 9, 11, 14 and 15.
- 09/04/03: Change in Section 1.

### Prepared By

Preparer: Jesse D. Aiken, 937-498-6117

### 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  
LC50 Lethal concentration (50 percent kill)  
LCLo Lowest published lethal concentration  
LD50 Lethal dose (50 percent kill)  
LDLo 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  
NORM Naturally occurring radioactive materials  
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, NOWARRANTY, EXPRESS OR IMPLIED, CAN BE MADE.

This is the end of MSDS # 868