

Material Safety Data Sheet

Polyethylene JA Series, PE380, PE400

MSDS No. 16001.4

Date of Preparation: 5/4/05

Revision: 9/29/11

Section 1 - Chemical Product and Company Identification

Product: Polyethylene JA Series, PE380, PE400

Manufacturer: Marshall Additive Technologies

Division of the R. J. Marshall Company

26776 W. 12 Mile Road

Southfield, MI 48034-7807

Phone: (248) 353-4100, Fax: (248) 948-6460

Emergency Phone: (800) 424-9300

Date Revised: 9/29/11

Preparer: Stephanie Nichols

Section 2 - Composition / Information on Ingredients

Ingredient Name	CAS Number	Percent by Weight
Polyethylene	9002-88-4	>95%
Polyvinyl Alcohol	9002-89-5	<5%

Trace Impurities:

Ingredient	OSHA PEL		ACGIH TLV	
	TWA	STEL	TWA	STEL
Polyethylene	none estab.	none estab.	none estab.	none estab.
Polyvinyl Alcohol	none estab.	none estab.	none estab.	none estab.

Section 3 - Hazards Identification

☆☆☆☆☆ Emergency Overview ☆☆☆☆☆

HMIS

H 0

F 1

R 0

PPE† E

†Sec. 8

Potential Health Effects

Primary Entry Routes: Inhalation, Eye, and Skin.

Acute Effects

Inhalation: Some individuals, e.g. with asthma or bronchitis, are likely to be intolerant of high concentrations of airborne fibers or fiber dust when processing.

Eye: Fibers or fiber dust may cause irritation or scratch the surface of the eyes.

Skin: Contact with fibers may cause mechanical abrasion.

Ingestion: None known.

Carcinogenicity: NTP, IARC, or OSHA does not consider this product carcinogenic.

Medical Conditions Aggravated by Long-Term Exposure: n/a

Section 4 - First Aid Measures

Inhalation: If overcome by high dust concentrations, remove to a ventilated area. Seek medical attention if coughing or other symptoms occur.

Eye Contact: Flush with water to remove particles.

Skin Contact: Wash skin thoroughly with soap and water for at least 15 minutes. Consult a physician if irritation persists.

Ingestion: No treatment required.

After first aid, get appropriate in-plant, paramedic, or community medical support.

Note to Physicians: Fibers can be regarded as physiologically inert since no poisoning or other injurious effects have been observed in cases where this material has been used internally (surgical sutures, replacement of blood vessels, etc.). On external contact, no signs of dermatitis or other skin injury have been observed.

Special Precautions/Procedures: n/a

Section 5 - Fire-Fighting Measures

Flash Point: >200C

Flash Point Method: n/a

Burning Rate: Not determined.

Auto-ignition Temperature: Not determined.

Flammability Classification: Non-flammable.

Extinguishing Media: Water, CO2, Dry Chemical.

Unusual Fire or Explosion Hazards: As with many solids, any dust that is generated may be explosive if mixed with air in critical proportions and in the presence of a source of ignition.

Hazardous Combustion Products: None known.

Fire-Fighting Instructions: Do not release runoff from fire control methods to sewers or waterways.

Fire-Fighting Equipment: Because fire may produce toxic thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full face-piece operated in pressure-demand or positive-pressure mode.

Section 6 - Accidental Release Measures

Spill /Leak Procedures: Sweep up or vacuum and place in appropriate disposal container. Dispose of at an approved landfill or reuse.

Regulatory Requirements: Follow applicable OSHA regulations (29 CFR 1910.120).

Section 7 - Handling and Storage

Handling Precautions: None.

Storage Requirements: Do not store near flame or incompatible materials. Maintain good housekeeping to control dust accumulations. Store at temperatures below 60C (150F).

Section 8 - Exposure Controls / Personal Protection

Engineering Controls:

Ventilation: Local exhaust for fiber dust only.

Administrative Controls:

Respiratory Protection: For operations where inhalation exposure can occur, a NIOSH approved respirator recommended by an industrial hygienist may be necessary.

Protective Clothing/Equipment: For operations where eye or face contact can occur, eye protection such as goggles or a face shield is recommended.

Section 9 - Physical and Chemical Properties

Physical State: solid

Appearance and Odor: white solid.

Odor Threshold: n/e

Vapor Pressure: n/e

Vapor Density (Air=1): n/a

Formula Weight: n/a

Density: n/a

Specific Gravity (H₂O=1, at 4 °C): 0.96

pH: 5.19

Water Solubility: Negligible

Other Solubilities: n/a

Boiling Point: n/a

Freezing/Melting Point: 135C (320F)

Viscosity: n/a

Refractive Index: n/a

Surface Tension: n/a

% Volatile: <2% (water)

Evaporation Rate: Negligible

Section 10 - Stability and Reactivity

Stability: This product is stable at room temperature in closed containers under normal storage and handling conditions.

Polymerization: None anticipated under normal or recommended handling and storage conditions.

Chemical Incompatibilities: Tends to decompose in strong acids and bases.

Conditions to Avoid: Excessive heat shall be avoided. Small quantities of fumes are evolved at about 225C (435F). These gradually increase until at above 300C decomposition and oxidative pyrolysis take place. Above 300C the heat of oxidation may produce a rapid rise in temperature which accelerates the pyrolysis. Under these circumstances hazardous substances such as carbon monoxide, formaldehyde, and acrolein can be evolved.

Hazardous Decomposition Products: None anticipated under normal or recommended handling and storage conditions.

Section 11- Toxicological Information

Toxicity Data:*

No specific data available.

Section 12 - Ecological Information

Cleaned up material is not known to pose any significant ecological problems. Always comply with Federal, State, and local regulations.

Section 13 - Disposal Considerations

Disposal: Dispose as solid waste in sanitary landfill or incinerate according to Federal, State, and local regulations. Do not incinerate closed containers.

Section 14 - Transport Information

DOT Transportation Data (49 CFR 172.101):

Polyethylene Fiber
 NFMN No. 68555
 Class: 85

Section 15 - Regulatory Information

EPA Regulations:

RCRA Hazardous Waste Number: Not listed (40 CFR 261.33)
 RCRA Hazardous Waste Classification: Not classified
 CERCLA Hazardous Substance (40 CFR 302.4) Not listed
 SARA Toxic Chemical (40 CFR 372.65): Not listed
 SARA EHS (Extremely Hazardous Substance) (40 CFR 355): Not listed

OSHA Regulations:

Air Contaminant (29 CFR 1910.1000, Table Z-1, Z-1-A): Not listed

TSCA

This substance or all of its components are on the Chemical Substances Inventory of the Toxic Substance Control Act (TSCA Inventory [USA]). Please note that this product is not subject to any legal reporting requirements under these acts.
 WHMIS: Not a controlled product.
 Canadian DSL: This product, or all its ingredients, is certified for inclusion on the Canadian Domestic Substance List.

Section 16 - Other Information

Prepared By: Stephanie Nichols

Revision Notes: Updated product codes.

Product Grades Available from the R. J. Marshall Company (this list may be incomplete):

24JA	25JA	26JA	27JA	PE380	PE400
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