



W2031

Safety Data Sheet

Section 1 Product and Company Identification

Product Name: Polyethylene
Chemical Family: Polymer
Synonym: Polyethylene
CAS Registry Number: 9002-88-4 or 25213-02-9 or 25087-34-7 or 26221-73-8
Supplied by: Woodstock International, Inc.
PO Box 2027, Bellingham, WA 98227

Validation Date: 1/1/2016

This MSDS is applicable to all SM Polymers Polyethylene grades.

Section 2 Hazards Identification

Emergency Overview: Irritating vapors to respiratory system and eyes may form when polymer is processed at high temperatures. Molten or heated material in skin contact can cause severe burns.

Routes of Entry: FOR HOT MATERIAL: Skin contact. Eye contact. Inhalation.

Potential Acute Health Effects:

Eyes: Dust may cause mechanical irritation to eye.
Heated Polymer: Eye contact can cause serious thermal burns. Vapors formed when polymer is heated may be irritating to the eye.

Skin: No known acute effects of this product resulting from skin contact at room temperature.
Heated Polymer: skin contact can cause serious thermal burns.

Inhalation: Negligible at room temperature. Nuisance dusts can be irritating to the upper respiratory tract. Irritating vapors may form when the polymer is processed at high temperatures.

Ingestion: No effects are expected for ingestion of small amounts. May be a choking hazard.

Potential Chronic Health Effects: CARCINOGENIC EFFECTS: Polyethylene is not a known carcinogen.
Not listed as a carcinogen by OSHA, NTP or IARC.

Medical Conditions Aggravated by Overexposure: There is no known effect from chronic exposure to this product. Repeated or prolonged exposure is not known to aggravate medical condition.

Overexposure /Signs/Symptoms: No adverse health effects anticipated from the solid pellet.

See Toxicological Information (Section 11)

Section 3	Composition and Information on Ingredients
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Occupational exposure limits, if available, are listed in Section 8.

Substance Name	CAS#	% by Weight
Polyethylene Homopolymer, or	9002-88-4	~ 100
Ethylene-1-butene Copolymer, or*	25087-34-7	
Ethylene-1-hexene Copolymer, or*	25213-02-9	
Ethylene-1-octene Copolymer*	26221-73-8	

*This product may also be described as polyethylene (ethylene homopolymer) (CAS #9002-88-4).

Ethylene and ethene are interchangeable.

Section 4	First Aid Measures
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Eye Contact: Rinse with water for a few minutes. Seek medical attention if necessary.

Skin Contact: Polymer: NO known EFFECT on skin contact, rinse with water for few minutes.
Heated Polymer: For serious burns from heated polymer, get medical attention. In case of skin contact, immediately immerse in or flush with clean, cold water.

Inhalation: Allow the victim to rest in a well-ventilated area.

Ingestion: No First Aid procedures are needed.

Section 5	Fire Fighting Measures
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Flammability of the Product: May be combustible at high temperature.

Auto-ignition Temperature: 349°C (660.2°F)

Flash Points: CLOSED CUP: 341°C (645.8°F).

Flammable Limits: Not available.

Products of Combustion: Carbon oxides (CO, CO₂) and soot.

Fire Hazards in Presence of Various Substances: No specific information is available in our database regarding the flammability of this product in presence of various materials.

Explosion Hazards in Presence of Various Substances: Risks of explosion of the product in presence of mechanical impact: Not expected.
Risks of explosion of the product in presence of static discharge: Possible.
Risk of explosion from dust accumulation of this product is possible. See MSDS section 7 Handling for more information.

Fire Fighting Media and Instructions: SMALL FIRE: Dry chemical extinguisher (ABC or AB). Use water spray or fog.
LARGE FIRE: Use water spray or fog. Do not use water jet.

May re-ignite itself after fire is extinguished.

Protective Clothing (Fire): Wear MSHA/NIOSH approved self-contained breathing apparatus or equivalent and full protective gear.

Special Remarks on Fire Fire may produce irritating gases and dense smoke.

Hazards:	Flowing material may produce static discharge, igniting dust accumulations.
Special Remarks on Explosion Hazards:	Processing or material handling equipment may generate dust of sufficiently small particle size, that when suspended in air may be explosive.

Section 6 Accidental Release Measures

Small Spill and Leak:	Pellets on the floor could present a serious slipping problem. Good housekeeping must be maintained at all times to avoid this hazard. Sweep, shovel, or vacuum material into clean containers.
Large Spill and Leak:	Use a shovel to put the material into a convenient waste disposal container. Do not allow any potentially contaminated water with pellets to enter any waterway, sewer or drain.

Section 7 Handling and Storage

Handling:	Handling of plastic may form nuisance dust. Protect personnel. Pneumatic material handling and processing equipment may generate dust of sufficiently small particle size that, when suspended in air, may be explosive. Dust accumulations should be controlled through a comprehensive dust control program that includes, but is not limited to, source capture, inspection and repair of leaking equipment, routine housekeeping and employee training in hazards. See NFPA 654. When handled in bulk quantities, this product and its associated packaging may present a crushing hazard due to the large masses involved, possibly resulting in severe injury or death.
Storage:	Keep container dry. Keep in a cool place. Ground all equipment containing material. Keep container tightly closed. Keep in a cool, well-ventilated place. Combustible materials should be stored away from extreme heat and away from strong oxidizing agents.

Section 8 Exposure Controls / Personal Protection

Engineering Controls:	Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.
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Personal Protection:

<u>Eyes:</u>	Safety glasses.
<u>Body:</u>	Coveralls.
<u>Respiratory:</u>	Ventilation is normally required when handling this product at high temperatures. Wear appropriate respirator when ventilation is inadequate.
<u>Hands:</u>	Thermally insulated gloves required when handling hot material.
<u>Feet:</u>	Shoes
<u>Protective Clothing (Pictograms)</u>	

Personal Protection in Case of a Large Spill Gloves. Coveralls. Personal protective equipment

Product Name

Polyethylene Homopolymer
or
Ethylene-1-hexene Copolymer
or
Ethylene-1-butene Copolymer

Exposure Limits

Consult local authorities for acceptable exposure limits.

Section 9	Physical and Chemical Properties
Physical State and Appearance:	Solid. (Solid)
Color:	Translucent white pellets.
Odor:	Odorless.
Molecular Weight:	Not applicable.
Molecular Formula:	(-CH ₂ -CH ₂ -) _x
Melting/Freezing Point:	126 to 136°C (258.8 to 276.8°F)
Specific Gravity:	0.91 to 0.97 (Water = 1)
Volatility:	Negligible.
Solubility in Water:	Insoluble in water.
Section 10	Stability and Reactivity Information
Stability and Reactivity:	The product is stable. Avoid temperatures above 300 degrees C (570°F).
Conditions of Instability:	No additional remark.
Incompatibility with Various Substances:	May react or be incompatible with oxidizing materials.
Hazardous Decomposition Products:	Hazardous decomposition products are carbon monoxide, carbon dioxide, dense smoke, and various hydrocarbons.
Hazardous Polymerization:	No.
Section 11	Toxicological Information
Toxicity to Animals:	LD50: Not available. LC50: Not available.
Chronic Effects on Humans:	CARCINOGENIC EFFECTS: Not listed as a carcinogen by OSHA, NTP or IARC.
Other Toxic Effects on Humans:	Not considered to be dangerous to humans.
Special Remarks on Toxicity to Animals:	No additional remark.
Special Remarks on Chronic Effects on Humans:	No additional remark.
Special Remarks on Other Toxic Effects on Humans:	No additional remark.

Section 12	Ecological Information
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Ecotoxicity:	Not available.
Mobility:	Not available.
Toxicity of the Products of Biodegradation:	No additional information.
Special Remarks on the Products of Biodegradation:	No additional remark.

Section 13	Disposal Considerations
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Waste Information: Transfer to an approved disposal area in accordance with federal, state, and local regulations.

Consult your local or regional authorities.

Section 14	Transportation Information (for domestic bulk shipments, non-bulk shipments may differ)
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DOT Classification for Bulk Shipments (non-bulk shipments may differ):	Not a DOT controlled material (United States).
Proper Shipping Name/Description:	Not applicable.
UN Number:	Not applicable.
Packing Group:	Not applicable.
Marine Pollutant:	Not listed in Appendix B to 49CFR172.101
Hazardous Substances: Reportable Quantity:	Not applicable
Special Provisions for Transport:	Not applicable.
TDG Classification:	Not controlled under TDG (Canada).
IMO/IMDG Classification:	Not controlled under IMDG.
ICAO/IATA Classification	Not controlled under IATA.
USCG Proper Shipping Name	Not Available



Section 15**Regulatory Information**

HCS Classification: This product is not a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

U.S. Federal Regulations: TSCA inventory: All the ingredients are on the TSCA list.

SARA 301/302/303

No chemicals in this product are listed as extremely hazardous substances in 40 CFR 355, Emergency Planning And Notification (Appendix A to Part 355).

SARA 304

No chemicals in this product require reporting under the requirement of 40 CFR 355, Emergency Planning And Notification (SARA extremely hazardous substances listed in Appendix A to Part 355 or CERCLA hazardous substances listed in Table 302.4 of 40 CFR Part 302).

SARA 313

This product contains no chemicals in excess of the applicable de minimis concentration that are subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372 (Table 372.65).

SARA 311/312

This product is not a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200, and as such does not require reporting under the requirements of 40 CFR 370, Hazardous Chemical Reporting: Community Right-To-Know.

Specific state and local regulations should be consulted to determine if there are any additional requirements. Because many states and localities have added requirements or incorporated the Federal contents in their own forms, Tier I & II forms should be obtained from the State Emergency Response Commission (SERC).

Clean water act (CWA) 307: No products were found.

Clean water act (CWA) 311: No products were found.

Clean air act (CAA) 112 accidental release prevention: No products were found.

Clean air act (CAA) 112 regulated flammable substances: No products were found.

Clean air act (CAA) 112 regulated toxic substances: No products were found.

International Regulations

WHMIS (Canada): Not controlled under WHMIS (Canada).

CEPA Toxic substances: To the best of our knowledge, this product does not contain listed substances at reportable levels.

Canadian ARET: To the best of our knowledge, this product does not contain listed substances at reportable levels.

Canadian NPRI: To the best of our knowledge, this product does not contain listed substances at reportable levels.

Alberta Designated Substances: To the best of our knowledge, this product does not contain listed substances at reportable levels.

Ontario Designated Substances: To the best of our knowledge, this product does not contain listed substances at reportable levels.

Quebec Designated Substances: To the best of our knowledge, this product does not contain listed substances at reportable levels.

DSCL (EEC): This product is not classified according to EU legislation.

CEPA DSL/NDL: All components are listed or exempted.

State Regulations:

Connecticut Carcinogen Reporting: To the best of our knowledge, this product does not contain listed substances at reportable levels.

Connecticut Hazardous Material Survey: To the best of our knowledge, this product does not contain listed substances at reportable levels.

Florida substances: To the best of our knowledge, this product does not contain listed substances at reportable levels.

Illinois Chemical Safety Act: To the best of our knowledge, this product does not contain listed substances at reportable levels.

Illinois Toxic Substances Disclosure to Employee Act: To the best of our knowledge, this product does not contain listed substances at reportable levels.

Louisiana Reporting: To the best of our knowledge, this product does not contain listed substances at reportable levels.

Louisiana Spill: To the best of our knowledge, this product does not contain listed substances at reportable levels.

Massachusetts Spill: To the best of our knowledge, this product does not contain listed substances at reportable levels.

Massachusetts Substances: To the best of our knowledge, this product does not contain listed substances at reportable levels.

Michigan Critical Material: To the best of our knowledge, this product does not contain listed substances at reportable levels.

Minnesota Hazardous Substances: To the best of our knowledge, this product does not contain listed substances at reportable levels.

New Jersey Hazardous Substances: To the best of our knowledge, this product does not contain listed substances at reportable levels.

New Jersey Spill: To the best of our knowledge, this product does not contain listed substances at reportable levels.

New Jersey Toxic Catastrophe Prevention Act: To the best of our knowledge, this product does not contain listed substances at reportable levels.

New York Acutely Hazardous Substances: To the best of our knowledge, this product does not contain listed substances at reportable levels.

New York Toxic Chemical Release Reporting: To the best of our knowledge, this product does not contain listed substances at reportable levels.

Pennsylvania RTK Hazardous Substances: To the best of our knowledge, this product does not contain listed substances at reportable levels.

Rhode Island Hazardous Substances: To the best of our knowledge, this product does not contain listed substances at reportable levels.

California Prop. 65: There are no Proposition 65 chemicals present in our polyethylene resins at levels that would require a warning under the California Safe Drinking Water and Toxic Enforcement Act.

Label requirements:

Irritating vapors to respiratory system and eyes may form when polymer is processed at high temperatures. Molten or heated material in skin contact can cause severe burns.

Hazardous Material Information System (U.S.A.):

Health	0
Fire Hazard	1
Reactivity	0
Personal Protection	

National Fire Protection Association (U.S.A.):**References:**

Chemtox Database
Hazardous Substance Database