



SAFETY DATA SHEET

SDS No: 0012

Section 1. Product and Company Identification

Product Name: Heavy Weights

Trade Name: Polyolefin

Recommended Use: Signage, Other

Restrictions on Use: None

Manufacture: Rowmark
5409 Hamlet Drive
Findlay, OH 45840

In Case of Emergency: Call: Medcal: 911
Poison Control: 800-589-3897
Email:
Information: Call: 1-877-ROWMARK
Email: techhelp@rowmark.com

Section 2. Hazard Identification

GHS Classification: Not Classified

GHS Label Elements: Not Applicable

Emergency Overview:

APPEARANCE: Various colors; Various odors

Potential Health Effects:

EYE: Solid or dust may cause irritation or corneal injury due to mechanical action.

SKIN: Essentially non-irritating to the skin. Mechanical injury only. If heated, contact with the material may cause thermal burns. No adverse effects anticipated by skin absorption.

INGESTION: Very low toxicity if swallowed. Harmful effects not anticipated from swallowing small amounts.

INHALATION: Dust may cause irritation to upper respiratory tract (nose and throat).

NEW GHS Hazard Categories

Category 1 = Severe Hazard

Category 2 = Serious Hazard

Category 3 = Moderate Hazard

Category 4 = Slight Hazard

Category 5 = Minimal Hazard

GHS Rating

Health	5
Flammability	4
Instability	5
Other	

HMIS Rating

Health	0
Flammability	1
Physical Hazard	0

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

Other Hazards: Not Applicable

Section 3. Composition / Information on Ingredients

Name	CAS #	% by Weight
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Polyethylene	9002-88-4	>=99%
Additives	N/A	0-1%

* Remaining components are proprietary, non-hazardous, and/or present at amounts below reportable limits.

Section 4. First Aid Measures

Inhalation:	Process vapors may be irritation to the nose, throat and respiratory tract. Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get Medical attention.
Eyes:	Process vapors may irritate the eyes. Immediately flush eyes with water for at least 15 minutes. Get medical attention.
Skin:	Exposure to molten plastic may cause thermal burns. If molten material comes in contact with the skin, cool under ice water or a running stream.
Ingestion:	No adverse health effects expected from ingestion.

Section 5. Fire-Fighting Measures

Suitable Extinguishing Methods:	Dry Chemical, Water Spray, Foam Carbon Dioxide, or Foam
Unsuitable Extinguishing Methods:	None known.
Hazards During Fire-fighting:	Carbon monoxide, carbon dioxide, original monomer other hydrocarbon oxidation products.
Protective Equipment:	Wear self-contained breathing apparatus and protective suit.

Section 6. Accidental Release Measures

Personal Precautions:	See Section 8 - Exposure Controls / Personal Protection.
Environmental Precautions:	No Special environmental precautions required.

Methods and Materials for Containment and Cleaning Up

Spill / Leak:	Containment of this material should not be necessary. Sweep up or gather material and place in appropriate
If Molten:	Allow material to cool and place into an appropriate marked container for disposal.

Section 7. Handling and Storage

Handling:	Keep away from heat, flame and strong oxidizing agents. Good housekeeping and controlling dusts/vapors are necessary for safe handling of product.
Storage:	Keep away from heat, sparks, and flame. Store horizontally in cool, dry place in original container and protect from sunlight.

Section 8. Exposure Control and Personal Protection

Exposure Limits:

1) Effects of Acute Exposure:	See section 11, Toxicological Information		
2) Effects of Chronic Over Exposure:	See section 11, Toxicological Information		
3) OSHA Permissible Exposure Limits:	Chemical	OSHA PEL	ACGIH TLV
	Total Dust	15 mg/m ³ TWA	Not Assigned
	Repairable Fraction	5 mg/m ³ TWA	Not Assigned
	Inhalable Particulate	Not Assigned	10 mg/m ³ TWA
	Respirable Particulate	Not Assigned	3 mg/m ³ TWA
4) Carcinogen Potential:	See section 11, Toxicological Information		

Engineering Controls:

Use recommended safe handling practices to minimize unnecessary exposure.
General room ventilation is adequate for storage and ordinary handling.
Use local exhaust at points of fume generation or if dusty conditions prevail.

Personal Protective Equipment:

Wear safety glasses with side shields or chemical goggles to prevent eye contact.
Have eye-washing facilities readily available where eye contact can occur.
Wear impervious gloves and protective clothing to prevent skin contact.

Section 9. Physical and Chemical Properties

Appearance: Various colors,	Various colors	Vapor Pressure:	Not applicable
Odor:	Characteristic Odor	Vapor Density:	Not applicable
pH:	Not applicable	Relative Density:	.941-.965 (water = 1)
Melting Point / Freezing Point:	126° to 135°C	Solubility (ies):	Insoluble
Boiling Point:	Not applicable	Partition Coefficient (N-Octanol/Water):	Not applicable
Flash Point:	Not applicable	Auto-Ignition Temperature:	>300°C
Evaporation Rate:	Not applicable	Decomposition Temperature:	Varies, >300°C
Flammability (solid, gas):	Not classified. Burns but does not easily ignite.	Viscosity:	Not applicable
Upper Explosive Limit:	Not established	Specific Gravity:	.950-.965
Lower Explosive Limit:	Not established	Percent Volatile:	Not applicable

Section 10. Stability Reactivity

Reactivity:	Stable
Chemical Stability:	Stable
Possibility of Hazardous Reactions:	Unlikely to occur
Conditions to Avoid:	Avoid contact with oxidizing agents. Avoid open flames and temperatures over 400°F
Incompatible Materials:	Acids and ammonium salts of acids
Hazardous Decomposition Products:	Thermal decomposition can produce irritating and toxic fumes and gases, including carbon monoxide, hydrogen cyanide, aldehydes, organic acids and polynuclear aromatic compounds.

Combustion Products:

Section 11. Toxicological Information

Irritation Effects

Eye Irritation:	Solid particles may cause transient irritation from mechanical abrasion.
Skin Irritation:	Not expected to cause skin irritation. Molten material may cause thermal burns.
Inhalation:	Not a likely route of exposure. Process fumes may cause irritation.
Ingestion:	May cause a choking hazard if swallowed.

General Effects of Exposure

Symptoms (characteristic)

	Hot material may cause thermal burns. Mechanical irritation to skin, eyes, and throat may occur with exposure to dust and small particles.
Physical:	
Chemical:	Inhalation of process fumes and vapors may cause soreness in the nose and throat and coughing.
Toxicological:	This material is considered essentially inert and non-toxic. It has no known acute health effects.
Delayed and Immediate effects:	Coughing, throat soreness, possible redness of skin, eyes, or throat.

Chronic effects: (short and long term exposure)

Product has minimal chronic effect. There are no known or reported reproductive or genetic effects.

Acute Toxicity - L050/LC50

Polyethylene (Ethene homopolymer) (-) Inhalation LC50 Mouse: 12 g/m³/30M

Polyethylene (1-Butene, polymer with ethene) (-) Oral LD50 Rat: 4 g/kg

Acute Toxicity - Effects

Inhalation: Rats inhaling polyethylene dust developed mild inflammatory changes in the lungs. Prolonged inhalation of thermal degradation products from polyethylene caused neurological effects in rats.

Ingestion: No adverse health effects were noted on the digestive system of test animals when fed up to 20% polyethylene.

Repeated Dose Toxicity

Sub chronic, 50-90 day, feeding studies conducted on rats, dogs and swine showed no effects from dietary levels of 20% powdered and shredded polyethylene.

Carcinogenicity

Not listed by IARC, NTP, OSHA or EPA

Section 12. Ecological Information

Eco-toxicity:	Not expected to be toxic, but chilps may mechanically cause adverse effects
Persistence and Degradability:	This material is not expected to be readily biodegradable.
Bio-accumulate Potential:	Not Assigned
Mobility in Soil:	Material is expected to remain in the soil.
Other Adverse Effects:	Not Assigned

Section 13. Disposal Considerations

Disposal Methods

Product Recommendation:

1. Recycle (Reprocess) if product has not been contaminated so as to make it unsuitable for its intended use.
2. Disposal through controlled incineration or authorized waste dump in accordance with Local, State or Federal Regulations.

Uncleaned Packaging Recommendation:

1. Disposal must be done in accordance with Local, State, or Federal Regulation.

Section 14. Transportation Information

UN Number: Not Relevant

UN Proper Shipping Name: Not Relevant

Transportation Hazard Class(es)

DOT: Not Regulated/classified

TDG: Not Regulated/classified

Packing Group: Not Applicable

Environmental Hazards: Not Relevant

Transportation in Bulk (According to Annex II of MARPOL 73/78 and IBC Code): Not Relevant

Special Precautions for User: No special precautions

Section 15. Regulatory Information

(Not meant to be all-inclusive – selected regulations represented)

US EPA Resource Conservation and Recovery Act (RCRA) Composite List of Hazardous Wastes and Appendix VIII Hazardous Constituents (40 CFR 261):

If discarded in 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).

OSHA HazCom: This Material is not Hazardous b OSHA Hazardous Communication Standard 29 CFR 1910.1200

SARA 313:

Immediate Hazard: NO	Fire Hazard: NO	Reactivity Hazard: NO
Delayed Hazard: NO	Pressure Hazard: NO	

Section 16. Other Information

No Additional Information

NOTICE: The information presented in this Safety Data Sheet is based on data considered to be accurate as of the date this Safety Data Sheet was prepared. However, no warranty or representation, expressed or implied, is made as to the accuracy or completeness of the foregoing data and safety information, nor is any authorization given or implied to practice any patented invention without a license. In addition, no responsibility can be assumed by vendor for any damage or injury resulting from abnormal use, from any failure to adhere to recommended practices, or from any hazards inherent in the nature of the product.

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