

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: Medical: 911  
Poison Control: 800-589-3897  
**Information:** Call: 1-877-ROWMARK  
Email: [techhelp@rowmark.com](mailto:techhelp@rowmark.com)
**Section 2. Hazard Identification**

GHS Classification: Not Classified

GHS Label Elements: Not Applicable

**GHS Rating**

|              |   |
|--------------|---|
| Health       | 5 |
| Flammability | 4 |
| Instability  | 5 |
| Other        |   |

Other Hazards: Not Applicable

**NEW GHS Hazard Categories**

Category 1 = Severe Hazard  
Category 2 = Serious Hazard  
Category 3 = Moderate Hazard  
Category 4 = Slight Hazard  
Category 5 = Minimal Hazard

**Section 3. Composition / Information on Ingredients**

| Name         | CAS #     | % by Weight |
|--------------|-----------|-------------|
| 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:** appropriate container for disposal.  
**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 Limit | Chemical               | OSHA PEL                 | ACGIH TLV                |
|------------------------------------|------------------------|--------------------------|--------------------------|
|                                    | Total Dust             | 15 mg/m <sup>3</sup> TWA | Not Assigned             |
|                                    | Respirable Fraction    | 5 mg/m <sup>3</sup> TWA  | Not Assigned             |
|                                    | Inhalable Particulate  | Not Assigned             | 10 mg/m <sup>3</sup> TWA |
|                                    | Respirable Particulate | Not Assigned             | 3 mg/m <sup>3</sup> 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

|                                 |                                                   |                                     |                       |
|---------------------------------|---------------------------------------------------|-------------------------------------|-----------------------|
| characteristic odor             | 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/Wa | 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.                                        |

**Physical:** Hot material may cause thermal burns. Mechanical irritation to skin, eyes, and throat may occur with exposure to dust and small particles.

**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.

## Section 12. Ecological Information

|                                |                                                                            |
|--------------------------------|----------------------------------------------------------------------------|
| Eco-toxicity:                  | Not expected to be toxic, but chips 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

The information herein is presented in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied is given. Regulatory requirements are subject to change and may differ from one location to another; it is the buyer's responsibility to ensure that its activities comply with federal, state or provincial, and local laws. The following specific information is made for the purpose of complying with numerous federal, state or provincial, and local laws and regulations. See other sections for health and safety information.

### 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).

SARA 313:

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

## Section 16. Other Information

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.

Revision Date: January 2020

## CSI Manufacturing Limited

Unit 5 Millers Court, Windmill Road,  
Kenn Business Park, Clevedon BS21 6UL  
Tel: 0117 911 4367 Email: info@csionline.co.uk

## CSI Manufacturing Limited

Unit 5 Redcow Interchange Estate, Turnpike Road,  
Ballymount, Dublin 22  
Tel: 01 4641488 Email: info@csionline.ie