



# Safety Data Sheet

Revision Date: 11 Dec 2017

## 1. Identification

**Product name/GHS identifier:** Polyethylene  
**Product use/description:** Meter boxes  
**Manufacturer/supplier:** Sigma Corporation  
700 Goldman Drive  
Cream Ridge, New Jersey 08514  
**Emergency Telephone:** 800.999.2550 (M-F 8:00 - 5:00 EST)

## 2. Hazards Identification

Routes of Entry	Category	Hazard Statement / Additional Information
Skin Contact	None	Not a probable route of exposure under normal conditions
Eye Contact	None	Not a probable route of exposure under normal conditions
Inhalation	None	Not a probable route of exposure under normal conditions. Under normal conditions and use, product is not expected to generate significant dust.
Carcinogen	2B	IARC: Possibly carcinogenic to humans (carbon black)

NFPA Label	Product Classifications and Additional Information
	GHS Classification: Non-hazardous
	GHS Pictogram: Not applicable
	GHS Signal Word: Not applicable
	GHS Labeling Requirement: None
	Other hazards: In the event of a fire or high temperature environment, thermal decomposition may occur. Potentially harmful chemicals may be formed, including carbon monoxide and/or carbon dioxide. See Section 5 Fire Fighting Measures for more details.

## 3. Composition / Information on Ingredients Hazards Identification

Ingredient Name	CAS No.	% by Weight
Polyethylene Monomer	9003-07-0	98.5 - 100
Carbon Black	1333-86	0 - 1.5

## 4. First Aid Measures

**If inhaled:** If symptoms are experienced, remove source of contamination or move victim to fresh air. Obtain medical advice immediately.

**If in eyes:** DO NOT allow exposed to rub eye(s). Let the eye(s) water naturally for a few minutes. Have exposed look right and left, and then up and down. If particle/dust does not dislodge flush with lukewarm, gently flowing water for 5 minutes or until particle/dust is removed, while holding the eyelid(s) open. If irritation persists, obtain medical attention.

**If ingested:** Not an expected route of exposure. If irritation or discomfort occurs, obtain medical advice immediately

**If skin contact:** No health effects expected. If irritation occurs, wash gently and thoroughly with water and non-abrasive soap. If irritation persists, obtain medical advice immediately. Molten material will cause skin burns and may adhere strongly to the skin. If exposed to molten material, seek medical attention and DO NOT attempt to remove material from skin.

## 5. Fire Fighting Measures

**Suitable extinguishing media:** Dry chemical powder, carbon dioxide, appropriate foam, water spray or fog may be used.

**Combustion products:** Carbon dioxide, carbon monoxide, styrene monomer, smaller amounts of oxidized aromatic compounds. The smoke may contain polymer fragments or toxic and/or irritating chemicals depending on combustion conditions.

**Special protective actions for fire fighters:** May form hazardous combustion and decomposition products. Firefighters may enter the area if positive pressure self-contained breathing apparatus and full Bunker Gear is worn.

## 6. Accidental Release Measures

- Personal precautions:** Restrict access to area until completion of clean-up. Ensure clean-up is conducted by trained personnel only. Extinguish or remove all ignition sources.
- Containment and cleanup:** Scoop up pellets or collect with vacuum equipment. Avoid generating dust. Dispose of in accordance with applicable federal, state/provincial, and local regulations. If material enters a sewer or waterway, notify responsible authorities.

## 7. Handling and Storage

- Handling:** This material can generate combustible dust. Avoid generating dusts. Prevent the release of dusts into the workplace air. Use dust tight containers and manufacturing processes. Keep material away from sparks, flames, and other ignition sources. Do not use near welding operations, flames or hot surfaces. Ground and electrically bond containers and equipment to prevent electrostatic charges.
- Storage:** Store material in a cool area, out of direct sunlight and away from heat and ignition sources and combustible materials. Manufacturing process equipment should include a dust collection system.

## 8. Exposure Controls / Personal Protection

Occupational Exposure Limits				
Component	OSHA PEL	ACGIH TLV	Applicable International	
Polyethylene	5 mg/m <sup>3</sup> (respirable)	3 mg.m <sup>3</sup> (respirable)	UK WEL: 4 mg/m <sup>3</sup> (respirable)	BC: 3.0 mg/m <sup>3</sup> (respirable)
	1.5 mg/m <sup>3</sup> (total)	10 mg/m <sup>3</sup> (total)	10 mg/m <sup>3</sup> (total)	10 mg/m <sup>3</sup> (total)
Carbon Black	3.5 mg/m <sup>3</sup>	3.5 mg/m <sup>3</sup>	UK WEL: 3.5 mg/m <sup>3</sup>	BC: 3.0 mg/m <sup>3</sup>

- Engineering Controls:** Engineering controls include mechanical ventilation, process or personnel enclosure and control of process conditions. Design process equipment to minimize and control dust generation. Use of this material in an elevated temperature process should be thoroughly evaluated to determine safe operating conditions.
- Personal Protective Equipment (PPE):**
- Eye Protection:* Wear adequate eye protection; safety glasses, or goggles. If working with molten product, a faceshield may be necessary. Have a safety eyewash station readily available in the available in the immediate work area.
- Skin Protection:* No specific requirement. If working with molten product, ensure that skin is fully protected thermal burns.
- Respiratory Protection:* No requirements for intended use. A NIOSH/MSHA-approved air-purifying respirator with dust/mist filters or organic vapor cartridge/canisters should be used when airborne particles or vapor concentrations are expected to exceed exposure limits.

## 9. Physical and Chemical Properties

Appearance / odor	Solid odorless black or white		
Odor threshold:	Not applicable	Lower Flammability Limit:	Unknown
pH:	Not applicable	Upper Flammability Limit:	Unknown
Melting/freezing point:	Not applicable	Auto-ignition temperature:	349° C or 660° F
Initial boiling point/range:	Not applicable	Vapor density:	<sup>3</sup>
Flash point:	Not applicable	Vapor pressure:	
Evaporation rate:	Not applicable	Specific gravity:	
Molecular weight:	Varies	Solubility:	
Flammability (solid/gas):	Not applicable	Partition coefficient:	
Viscosity:	Not applicable	Decomposition temperature:	

## 10. Stability and Reactivity

- Reactivity:** Not reactive
- Chemical stability:** Stable
- Possibility of hazardous reaction:** None
- Conditions to avoid** Excessive heat, sparks, flames, other ignition sources and accumulation of dust.

<b>Incompatible materials:</b>	Strong oxidizing agents
<b>Hazardous decomposition products:</b>	Carbon dioxide, carbon monoxide, dense smoke, styrene monomer, benzene, and other hydrocarbons. The smoke may contain polymer fragments or toxic and/or irritating chemicals depending on combustion conditions.

### 11. Toxicological Information

<b>Likely routes of exposure:</b>	Eye and skin contact.
<b>Acute toxicity:</b>	Carbon Black: Inhalation LC50 (rat): 6750 ppm. Oral LD50 (rat): >15400 mg/kg.
<b>Skin corrosion / irritation:</b>	Not expected
<b>Eye damage / irritation:</b>	Dust may cause mild eye irritation. Molten material can cause eye damage.
<b>Respiratory pr skin sensitization:</b>	None
<b>Germ cell mutagenicity:</b>	Positive and negative results have been obtained in somatic cells following live animal inhalation exposures to carbon black. There is no human information available.
<b>Carcinogenity:</b>	Carbon Black: There is limited evidence in humans and test animals for the carcinogenicity of styrene and carbon black. IARC group 2B possibly carcinogenic to humans.
<b>Reproductive toxicity:</b>	None
<b>Potential for accumulation:</b>	Carbon black dust is extremely fine and light and can be breathed deeply into the lungs, where it can be accumulate. Normally the dust is cleared gradually from the lungs and has no harmful effects.

### 12. Ecological Information

<b>General information:</b>	Not expected to pose a significant ecological hazard but maybe mechanically harmful to wildlife if ingestion is attempted. Keep out of waterways.
<b>Toxicity:</b>	No relevant studies identified.
<b>Persistence and degradability:</b>	Not easily biodegradable.
<b>Bio-accumulation potential:</b>	Not expected.
<b>Mobility:</b>	Insoluble in water.

### 13. Disposal Considerations

<b>Disposal methods:</b>	This product as supplied is not a hazardous waste. Product should be disposed of in accordance to all local, State / Provincial and federal regulations.
<b>RCRA Waste Code:</b>	Does not meet RCRA criteria for US hazardous waste. Not listed and does not contain any TCLP compounds.

### 14. Transport Information

<b>UN Number:</b>	None. Also no CHRIS or DOT Hazard Number
<b>Proper shipping name:</b>	Polyethylene
<b>Transport hazard classes:</b>	Not considered a hazardous classification
<b>Packaging group (if applicable):</b>	No specific hazardous material packaging requirements
<b>US Department of Transportation:</b>	Not regulated
<b>Transportation of Dangerous Goods:</b>	Not regulated
<b>International Maritime Organization:</b>	Not regulated
<b>International Air Transport Association:</b>	Not regulated

## 15. Regulatory Information

US Federal Regulations Applicable to Regulations	
Regulation	Components
Hazard Communication	Articles are not hazardous under the US OSHA Hazard Communication Standard 29 CFR 1910.1200.
SARA Title III	Not regulated in product form, contains no reportable quantity substances.
TSCA Inventory List	All components are included in the EPA Toxic Substances Control Act Chemical Substance Inventory.
CERCLA	None listed.
FDA	Not intended for use as a food additive or indirect food contact item.

US State Regulations Applicable to Regulations	
<b>California Prop 65:</b> None Carbon black in the colorant for this material is bound in a polymeric matrix. As supplied, the carbon black in this material does not meet the criteria of the Prop 65 list.	
<b>New Jersey Right to Know Law:</b> This product does not contain any chemicals on the New Jersey Workplace Hazardous Waste List.	
<b>Massachusetts Right to Know Law:</b> All components have been checked for inclusion on the Massachusetts Substance List. Those components present at the de minimus concentration have been identified in Section 2 of the SDS.	
<b>Pennsylvania Right to Know Law:</b> This product does not contain any chemicals on the Pennsylvania Workplace Hazardous Waste List. Those components present at the de minimus concentration have been identified in Section 2 of the SDS.	

## 16. Other Information

**Revision Indicator:** SDS Version 1.0 11 December 2017

**Preparer:** SMOsys LLC, PO Box 661333, Birmingham, Alabama 35266-1333 sepp@smosys.com 205.907.5632  
The information for this SDS was derived from an SDS for a similar product from Denton Plastics, Inc. Portland, Oregon.

### Abbreviations and acronyms:

HMIS - hazardous materials information system, NFPA - US National Fire Protection Agency, CAS - Chemical Abstracts Service Registry, EC - European Commission, NIOSH - National Institute of Occupational Safety and Health, SCBA - self-contained breathing apparatus, OSHA - US Occupational Safety and Health Act, PEL - Permissible Exposure Limit, ACGIH - American Conference of Governmental Industrial Hygienists, UK WEL - United Kingdom Health and Safety Executive Workplace Exposure Limit, GER MAK - Germany Maximum Workplace Concentration, TLV - Threshold Limit Value, PNOR - particulates not otherwise regulated (nuisance, or "inert" dust), PNOS - particulates not otherwise specified, ATSDR - Agency for Toxic Substances and Disease Registry, NTP - National Toxicology Program, IARC - International Agency for Research on Cancer, IUCLID - International Uniform Chemical Information Database

*This Safety Data Sheet (SDS) meets the requirements of Global Harmonization System (GHS) Rev. 4, OSHA Hazard Communication Standard (29 CFR 1910.1200), and Health Canada's WHMIS. The information presented herein has been compiled from sources considered to be reliable and is accurate and reliable to the best of our knowledge and belief but is not guaranteed to be so. No warranty of any kind, expressed or implied, is made concerning the safe use of this material in your process or in combination with other substances.*

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