

Date last revised 02/27/2015 By M. Lykins

MSDS-36

**I. Chemical Product and Company Identification**

<b>Chemical Name &amp; Synonyms</b> Polypropylene	<b>Trade Name &amp; Synonyms</b> Proteus® Black Homopolymer Polypropylene
<b>Chemical Family</b> Homopolymer Polypropylene	<b>Formula</b> [Ch (ch3) ch2-]
<b>Proper DOT Shipping Name:</b> N/A	<b>DOT Hazard Classification:</b> N/A
<b>Manufacturer:</b> Plastruct Polyzone Canada Inc. 4305 Springcreek Rd. Vineland ON CA L0R 2C0 1 800 642 7797	<b>Chemtrec Phone Number</b>  1-800-424-9300

**II. Ingredients**

Principal Components	Percent	Threshold Limit Value	OSHA PEL
Polypropylene (9003-07-0)	>90%	10mg/m3	15mg/m3
Carbon black (CAS # 1333-86-4)	<5%	3.5 mg/m3	5 mg/m3

**III. Physical Data**

<b>Boiling Point (Deg. F.)</b> N/A	<b>Specific Gravity (H20=1)</b> .90-.91
<b>Vapor Pressure (mm Hg)</b> N/A	<b>Percent Volatile By Volume (%)</b>
<b>Vapor Density (Air=1)</b> N/A	<b>Evaporation Rate (Air =1)</b> N/A
<b>Solubility in Water</b> Negligible	<b>pH</b> N/A
<b>Appearance &amp; Odor</b> Black, solid, no odor	

**IV. Hazard Identification/Fire & Explosion Hazard**

<b>Flash Point (Test Method) - &gt;350°C (662° F.) (ASTM-D-1929 Method B)(Setchkin)</b>		
<b>Auto Ignition Temperature - &gt;350°C (662° F.)</b>		
<b>Flammable Limits</b> N/A	<b>LEL</b> N/A	<b>UEL</b> N/A
<b>Extinguishing Media</b> Water, Foam, Carbon Dioxide, Dry Chemical		
<b>Special Fire Fighting Procedures</b> Firefighters should be equipped with positive pressure, self-contained breathing apparatus in enclosed area. NFPA Code: Fire 1, Health 1, Reactivity 0 HMIS Code: Fire 1, Health 0, Reactivity 0		
<b>Unusual Fire &amp; Explosion Hazards: Special conditions to avoid</b> Dust is flammable and explosive when finely divided and suspended in air.		

**V. Health Hazard Data**

**Carcinogen - NTP Program**  
NO

**Carcinogen - IARC Program**  
NO

**Route of Exposure**  
Eye contact

**Physical health Hazards:**

Dust may form explosive mixtures with air. Avoid dust formation and control ignition sources. Polyolefin dust particles suspended in air are combustible and may be explosive. Keep away from heat, sparks, flame, and other ignition sources. Prevent dust accumulations and dust clouds. Employ grounding, venting, and explosive relief provisions in accordance with accepted engineering practices and NFPA provisions in any process capable of generating dust and/or static electricity. Explosion hazards apply only to dusts, not granular forms of this product. See also Special Precautions section below.

**Signs and Symptoms of Acute Exposure:**

Molten polymer may cause thermal burns. At process temperatures, irritating fumes may cause soreness of the nose and throat. Mechanical irritation is possible.

**Primary Route(s) of Entry**  
Inhalation of particulates.

**Emergency First Aid**

**Inhalation:** If symptoms are experienced, move victim to fresh air. If symptoms persist, obtain medical attention.  
**Eye Contact:** Wash eyes with clean, low pressure water. If irritation persists, seek medical advice.  
**Skin Contact:** Molten material. If molten material comes in contact with the skin, cool under running water. Do not attempt to remove the molten material from the skin. Get medical attention immediately.

**VI. Reactivity Data**

**STABILITY**    \_\_\_ Unstable  
                  \_\_\_ **X** Stable

**INCOMPATIBILITY**

**Hazardous**        \_\_\_ May Occur  
**Polymerization**    **X** Will Not Occur

Conditions To Avoid

None Known

Materials To Avoid

Strong oxidizing agents.

Conditions To Avoid

None Known

**Hazardous Decomposition Products:** Carbon Monoxide, Carbon Dioxide, organic oxidation products, acrid smoke, and fumes.

**VII. Environmental Protection Procedures**

**Spill Response**

Sweep up for Disposal or reuse.

**Waste Disposal Method:** Incineration or landfill - dispose of in accordance with Federal, State and Local regulations.

**VIII. Special Protection Information**

**Eye Protection:** Glasses with side shields.

**Skin Protection:** When handling molten material protective clothing such as long sleeves or laboratory coat should be worn. Use heat-resistant gloves, boots and face protection.

**Respiratory Protection (Specific Type):** NIOSH approved dust respirator recommended. If material is being burned wear an organic respirator.

**Ventilation Recommended:** Local ventilation in dusty conditions, or if thermal decomposition occurs.

**Other Protection:** Gloves and protective garments when handling molten material.

**Handling:** The handling of powder in both loading and unloading operations, as well as fabrication, may cause dust to be formed, and necessary precautions for personal protection (See Section VIII) should be used. As with all finely divided materials, precautions should be taken to avoid inhalation and eye contact.

**IX. Special Precautions/Information**

**Hygienic Practices In Handling & Storage:** Wash with soap and water.

**Precautions For Repair & Maintenance Of Contaminated Equipment:** Eliminate ignition sources.

Transfer from storage with a minimum amount of dusting. Ground all transfer, blending, and dust collecting equipment to prevent static sparks in accordance with NFPA 70 "national Electric Code". Review and comply with all relevant NFPA provisions, including but not limited to NFPA 484 and NFPA 654 related to combustible dust hazards. Remove all ignition sources from material handling, transfer, and processing areas where dust may be present. Local exhaust ventilation should be provided in work area.

**Other Precautions**

Store in a sprinkler protected warehouse. Since Black Homopolymer Polypropylene products are polypropylene they will burn with a hot flame if ignited. Avoid contact with ignition sources such as open flames. Keep a fire extinguisher near if welding is done in the area of Black Homopolymer Polypropylene Black Homopolymer Polypropylene products. If a heat source is present, keep the area well ventilated.

**X. Regulatory Information**

**OSHA Status:** Polypropylene is not considered hazardous under OHSA.

**TSCA Inventory Status:** All ingredients are listed.

**CERCLA Reportable Quantity (RQ):** None

**SARA Title III:**

Section 302/304.No extremely hazardous substances

Section 311/312.No reporting requirements although it is suggested that storage of >10,000 lbs of polypropylene in one facility should be listed on a Tier II report.

Section 313: No reporting requirements.

**XI. Warning Labels**

**CAUTION:** Please consult the product MSDS sheet for important information.

**NFPA Code:** Fire 1, Health 1, Reactivity 0

**HMIS Code:** Fire 1, Health 0, Reactivity 0

Hazard data contained herein was obtained from raw material suppliers. The information presented is believed to be factual, as it was derived from the works and opinions of persons believed to be qualified. However, no facts contained in the information are to be taken as a warranty, or representation, for which Plastruct Polyzone Canada Inc. bears legal responsibility. The user should review any recommendation in the specific context of the intended use to determine if they are appropriate.

N.A.= Not Applicable N.E.= Not Established