



**2022**  
**MATERIAL SAFETY DATA SHEET**  
**RAILING PLUGS AND CAPS**

Reviewed: November 18, 2021

**1 IDENTIFICATION**

**Product Identification:** Railing plugs and caps

**USE:** Typical uses of plugs and caps are to fill a void and to keep water out

**Manufacturer:** Fortress Building Products

1720 N. 1<sup>st</sup> St.  
Garland, TX 75040

Tel: 972.231.4001

**Emergency Info:** (USA Only) 866.323.4766

[customercare@fortressbp.com](mailto:customercare@fortressbp.com)

**2 HAZARDOUS IDENTIFICATIONS**

**OSHA Classification:** Non-Hazardous

**Signal Words:** None

**Hazard Statement:** None

**Hazard Pictograms:** None

**Risk Phrases:** None

**Classification of the Substance or Mixture:**

This product is not classified according to OSHA Hazard Communication Standard (29 CFR 1910.1200)

**Information Concerning Particular Hazard for Human and Environment:**

This product is not labeled according to OSHA Hazard Communication Standard (29 CFR 1910.1200)

**Classification System:**

This classification is according to the latest edition of OSHA Hazard Communication Standard (29 CFR 1910.1200), extended by company and literature data

| 3 COMPOSITION |                                     |            |
|---------------|-------------------------------------|------------|
| CAS NUMBER    | NAME                                | PERCENTAGE |
| 32131-17-2    | Poly hexamethylenediamine Adipamide | ≥83%       |
| 65997-17-3    | Glass fiber filament                | 12-17%     |

| 4 FIRST AID   |   |
|---|---|
| <b>General First Aid:</b>                                 | No special measurements required  |
| <b>After Inhalation:</b>                                  | Supply Fresh Air; consult doctor in case of discomfort  |
| <b>After Skin Contact:</b>                                | No health risk at room temperature<br>If molten material comes in contact with skin, cool under running water<br>Do not attempt to remove from skin, Seek medical attention immediately |
| <b>After Eye Contact:</b>                                 | Rinse open eye for several minutes under running water  |
| <b>After Swallowing:</b>                                  | Rinse mouth with plenty of water<br>Do not induce vomiting<br>Seek medical attention  |
| <b>Most Important Symptoms/Effects, Acute or Delayed:</b> | No relevant information   |

| 5 FIRE FIGHTING MEASURES                               |  |
|--|--|
| <b>Suitable Extinguishing Agents:</b>                  | Water, foam, dry powder, CO <sub>2</sub><br>Follow usual chemical fire procedures                                  |
| <b>Specific hazards:</b>                               | Polyamide will burn if exposed to flame<br>Molten polymer generates small amounts of volatile degradation products |
| <b>Special Protective Equipment for Fire fighters:</b> | Full face, self-contained breathing apparatus and protective clothing  |

| 6 ACCIDENTAL RELEASE MEASURES     |   |
|-----------------------------------|---|
| <b>Methods for Clean up:</b>      | Pick up mechanically<br>Sweep if ground to dust   |
| <b>Environmental precautions:</b> | Keep away from drainage systems, surface water, and underground water<br>Sweep up dust and dispose of |
| <b>Personal Precautions:</b>      | None if room temperature<br>If molten, let cool   |

|  |                             |
|--|-----------------------------|
| <b>7</b>   | <b>HANDLING AND STORAGE</b> |
| <p><b>Precautions for Safe Handling:</b> Washing hands after handling recommended<br/>         Follow general hygiene practices<br/>         Keep away from ignition sources</p> <p><b>Conditions for safe storage:</b> None</p> |                             |

|  |   |
|--|---|
| <b>8</b>   | <b>EXPOSURE CONTROLS/ PERSONAL PROTECTION</b> |
| <p><b>Exposure Limits:</b></p> <p style="padding-left: 40px;">Particles:</p> <p style="padding-left: 80px;">ACGIH TLV= 10 mg/m<sup>3</sup>,</p> <p style="padding-left: 80px;">OSHA PEL= 15 mg/m<sup>3</sup>Total,<br/>         5 mg/m<sup>3</sup>Respirable</p> <p><b>Appropriate Engineering Controls:</b> None</p> <p><b>Personal Precautions:</b> Use gloves and safety glasses with side shields especially if creating dust</p> <p><b>Protection Equipment Specification:</b> Leather or cotton gloves should be worn<br/>         Leather if molten</p> |   |

9

**PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance**

|                               |  |
|-------------------------------|--|
| <b>Form:</b>                  | Solid  |
| <b>Color:</b>                 | Varies   |
| <b>Odor:</b>                  | None   |
| <b>Odor Threshold:</b>        | Not Applicable                                     |
| <b>pH:</b>                    | Not Applicable                                     |
| <b>Melting Point:</b>         | Not Applicable                                     |
| <b>Freezing Point:</b>        | Not Applicable                                     |
| <b>Boiling Point:</b>         | Not Applicable                                     |
| <b>Flash Point:</b>           | >752°F (ASTM-D-1929)                               |
| <b>Evaporation Rate:</b>      | Not Applicable                                     |
| <b>Flammability:</b>          | Not Applicable                                     |
| <b>Upper Limit:</b>           | Not Applicable                                     |
| <b>Lower Limit:</b>           | Not Applicable                                     |
| <b>Vapor Pressure:</b>        | Not Applicable                                     |
| <b>Vapor Density:</b>         | Not Applicable                                     |
| <b>Relative Density:</b>      | .043 lb/in <sup>3</sup> , [1.2 g/cm <sup>3</sup> ] |
| <b>Solubility:</b>            | Not Applicable                                     |
| <b>Partition Coefficient:</b> | Not Applicable                                     |
| <b>Auto-Ignition Temp:</b>    | Not Applicable                                     |
| <b>Decompression Temp:</b>    | 644 °F   |
| <b>Melting Point:</b>         | 482-509 °F   |
| <b>Viscosity:</b>             | Not Applicable                                     |

| 10 STABILITY AND REACTIVITY                           |   |
|---|---|
| <b>Reactivity:</b>                                    | Not applicable  |
| <b>Chemical Stability:</b>                            | Not applicable  |
| <b>Possibility of Hazardous Reaction:</b>             | Not applicable  |
| <b>Conditions to Avoid:</b>                           | Avoid overheating (644°F/340° C)  |
| <b>Incompatible Materials:</b>                        | Strong acids, strong bases, and strong oxidizers  |
| <b>Hazardous Decomposition Products:</b>              | Not applicable  |
| <b>Thermal Degradation and Combustion Byproducts:</b> | At temperatures above 644 °F/340 °C, heavy fuming of CO, CO <sub>2</sub> , NO <sub>x</sub> , aldehydes, ammonia, cyclopentanone and traces of hydrogen cyanide will occur |

| 11 TOXICOLOGICAL INFORMATION              |  |
|---|--|
| <b>Acute Toxicity:</b>                    | Not determined   |
| <b>Skin Corrosion/Irritation:</b>         | Non-irritating   |
| <b>Serious eye damage/ irritation:</b>    | Particles can irritate eyes                                      |
| <b>Respiratory or skin sensitization:</b> | Non-Sensitizing to skin, no respiratory sensitization determined |
| <b>Toxicology Information:</b>            | See section 8, exposure limits                                   |

| 12 ECOLOGICAL INFORMATION             |  |
|---------------------------------------|--|
| <b>Ecotoxicology:</b>                 | No available data  |
| <b>Persistence and Degradability:</b> | High persistence and low degradability   |
| <b>Bioaccumulative Potential:</b>     | No available data  |
| <b>Mobility:</b>                      | Not water soluble at room temperature<br>Decomposition products water soluble and mobile |
| <b>Other Adverse Effects:</b>         | No available data  |

| 13 DISPOSAL CONSIDERATIONS              |   |
|---|---|
| <b>Disposal:</b>                        | Recycle when possible. Follow local regulations |
| <b>Container Cleaning and Disposal:</b> | Dispose of according to official regulations    |

| 14 TRANSPORTATION INFORMATION                     |  |
|---|--|
| <b>UN Number (DOT, IMDG, IATA):</b>               | Not regulated  |
| <b>UN Proper Shipping Name (DOT, IMDG, IATA):</b> | Not regulated  |
| <b>Transport Hazard Class (DOT, IMDG, IATA):</b>  | Not regulated, labels not required on outside shipping container for these products and all products may be shipped through U.S. Postal Services |
| <b>Packaging Group (DOT, IMDG, IATA):</b>         | Not regulated  |
| <b>Environmental Hazards, Marine pollutants:</b>  | Not regulated  |
| <b>Special Precautions:</b>                       | None   |

| 15 REGULATORY INFORMATION |                |
|---------------------------|----------------|
| <b>Section 302, 304:</b>  | Not applicable |
| <b>Section 313:</b>       | Not applicable |

| 16 OTHER INFORMATION  |  |
|---|--|
| <p>This information is accurate and reliable to the best of our knowledge. It is furnished without warranty, expressed or implied. Fortress Iron assumes no legal responsibility for hazards which may result through the use of, or reliance upon, this data. This MSDS was created in the compliance with health and safety practices and is not intended to be used for any other purpose.</p> |  |
| <p><b>Revision History:</b></p> <p>November 18, 2021– Original Issue</p>  |  |