# Fibergrate Safety Data Sheet

**FOR PULTRUDED SHAPES, RAILING, LADDERS**

## Section 1 - Product & Company Identification

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| **Product:** | Dynaform® Structural Shapes: Angle, Channel, Concrete Embedment Angles, EZ® Angle, I Shapes, Round and Square Bar, Round and Square Tube, Wide Flange Shapes;<br>Dynarail®: Handrail, Guardrail, and Ladder Products<br>Dynaplank™ Boardwalk Plank and Dynadeck® Interlocking Flooring |
| **Manufacturer:** | Fibergrate Composite Structures Inc.<br>5151 Beltline Road, Suite 1212<br>Dallas, TX 75254<br>(800) 527-4043 |
| **24 Hour Emergency Phone Number:** | CHEMTREC 1-800-262-8200 (within the U.S.)<br>+1 703-741-5500 (Worldwide) |
| **Recommended Use:** | Structural Component |

## Section 2- Hazard(s) Identification

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| **Classification:** | In accordance with 29 C.F.R. § 1910.1200, this product is an "article" and therefore not subject to the HCS 2012 SDS and labeling requirements. The information presented is for potential end use grinding, sanding, cutting, or other mechanical work of this product. |
| **Signal Word:** | Warning |
| **Pictogram:** | None |
| **Hazard Statement:** | May form combustible dust concentrations in air |
| **Precautionary Statements:** | Excessive inhalation of respirable crystalline silica dust may cause a progressive, disabling, and sometimes fatal lung disease called silicosis. This disease is exacerbated by smoking. |
| **Hazards Not Otherwise Classified:** | The grinding, drilling, sanding, cutting, or other mechanical working of this product may generate dusts that could act as a mechanical irritant to skin, eyes, and upper respiratory system. Vapors or products of thermal degradation generated by cutting or grinding may aggravate or cause respiratory conditions. |

## Section 3 – Composition/Information on Ingredients

| Chemical Component: | CAS Number: | Percent: |
|---|---|---|
| Polymerized Resin | None | 30%-75% |
| Fiberglass | 65997-17-3 | 25%-70% |
| Quartz Silica Sand *(Present Within Anti-Slip Gritted Products Only)* | 14808-60-7 | 1% |

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## Section 4 – First Aid Measures

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| **Routes of Entry:** | Inhalation, skin, and ingestion |
| **Signs & Symptoms of Exposure:** | Temporary irritation and itching to skin or eyes. Scratchiness or burning of the nose and/or throat if exposed to large amount of airborne dust from cutting or machining.<br>Remove person(s) to fresh air if inhalation irritation occurs. |
| **Emergency & First Aid Procedures:** | Wash skin well without rubbing. For eyes, use a sterile solution and flood the eye area. Change clothing after exposure. Apply antiseptic to any abraded skin area.<br><br>Seek Medical Advice/Attention if needed |

## Section 5 – Fire Fighting Measures

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| **Extinguishing Media:** | Water; Foam/Type A, B, or C Extinguishers |
| **Special Firefighting Procedures:** | Use Self-Contained Breathing Apparatus (SCBA) with full face mask operated in pressure mode. |
| **Unusual Fire & Explosion Hazards:** | Burning FRP creates a complex mixture of solid, liquid, particulate, and gasses. Carbon monoxide and other organic compounds may be given off. Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard. |

## Section 6 – Accidental Release Measures

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| **Personal precautions, protective equipment, and emergency procedures:** | Non-sparking tools should be used. Avoid dispersal of dust in the air (i.e. clearing dust surfaces with compressed air). Wear an appropriate respirator for respirable crystalline silica where Section 8 applies. |
| **Methods and materials for containment and cleaning up:** | Dust deposits from fabrication should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. |

## Section 7 – Handling and Storage

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| **Handling:** | Use personal protection equipment to minimize skin, respiratory and eye exposure to dust and fumes when cutting or grinding product. Do not rub or scratch skin if dust particles have accumulated on exposed skin. Wash all exposed skin areas thoroughly after cutting or grinding. Launder clothing separately and frequently to prevent skin exposure. |

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| ***Fabrication* of Product:** | See Section 8 |
| **Storage:** | No special storage conditions exist. |

## Section 8 – Exposure Controls/Personal Protection

| Occupational Exposure Limits | Value |
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| OSHA PEL | 15mg/m3 (Nuisance Dust) Total |
| ACGIH TLV | 10mg/m3 (Nuisance Dust) Total |
| Respirable Crystalline Silica OSHA PEL | 50 µg/m³ |
| Respirable Crystalline Silica Action Level | 25 µg/m³ |

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| **Respiratory Protection:** | A NIOSH approved respirator for total dust and Respirable Crystalline Silica may be required. It is advised to perform an occupational exposure determination prior to selecting a respirator for appropriate protection. |
| **Protective Gloves:** | Wear cloth gloves when handling product to prevent cuts, scratches, or abrasions. |
| **Eye Protection:** | Wear protective eyewear with side shield or ventilated goggles when cutting or grinding. |
| **Other Protective Equipment:** | Barrier cream and long sleeve shirts with closed collars, long pants or protective clothing may be worn to prevent dust exposure when cutting or grinding product. |
| **Ventilation:** | It is recommended that all dust control equipment such as local exhaust ventilation and material transport systems involved in handling of this product contain explosion relief vents, an explosion suppression system, or an oxygen deficient environment. Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area (*i.e.*, there is no leakage from the equipment). Use only appropriately classified electrical equipment and powered industrial trucks. |

## Section 9 - Physical and Chemical Properties

| Property: | Measurement: |
|---|---|
| **Appearance:**<br>Physical State<br>Color | <br>Solid article<br>Various Colors |
| Odor | Low to none |
| Odor Threshold | N/A |
| pH | N/A |
| Melting Point/Freezing Point | N/A |
| Initial Boiling Point | N/A |
| Flash Point | N/A |
| Evaporation Rate | N/A |

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| Flammability | N/A |
| Upper/Lower Flammability Limits | N/A |
| Vapor Pressure | N/A |
| Vapor Density | N/A |
| Relative Density | 1.5 – 2.0 |
| Solubility | Not applicable |
| Partition Coefficient: n-ocatnol/water | Not applicable |
| Auto-Ignition Temperature | Not applicable |
| Decomposition Temperature | Not applicable |
| Viscosity | Not applicable |

## Section 10 – Stability and Reactivity Data

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| **Stability:** | Stable |
| **Conditions to Avoid:** | Sources of ignition, sparks, or flames, extremely high temperatures |
| **Incompatibility:** | Strong oxidizing acid |
| **Hazardous Decomposition or Byproducts:** | Not applicable |
| **Hazardous Polymerization:** | Will not occur |

## Section 11 – Toxicological Information

**Routes of Exposure:**

**Inhalation:** Breathing silica dust may not cause noticeable injury or illness even though permanent lung damage may be occurring. Inhalation of dust may have the following serious chronic health effects:
Silicosis: Excessive inhalation of respirable crystalline silica dust may cause a progressive, disabling, and sometimes fatal lung disease called silicosis. This disease is exacerbated by smoking.

**Skin:** No adverse effects expected.

**Eye:** Contact may cause mechanical irritation and possible injury.

**Ingestion:** No adverse effects expected for normal, incidental ingestion.

**Delayed and Immediate Effects:** N/A

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| **Acute Toxicity:** | N/A |

**Carcinogenicity Status:**
Constituents of this product include crystalline silica which, if inhalable, may cause silicosis, a form of progressive pulmonary fibrosis. Inhalable crystalline silica is listed by IARC as a group I carcinogen (lung) based on sufficient evidence in occupationally exposed humans and sufficient evidence in animals. Crystalline silica is also listed by the NTP as a known human carcinogen. Constituents may also contain asbestiform or non-asbestiform tremolite or other silicates as impurities, and above de minimis exposure to these impurities in inhalable form may be carcinogenic or cause other serious lung problems.

## Section 12 – Ecological Information

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| **Ecotoxicity:** | No data |
| **Persistence and Degradability:** | No data |
| **Bioaccumulative Potential:** | No data |
| **Mobility in Soil:** | No data |

## Section 13 – Disposal Considerations

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| **Waste Disposal Method:** | Control and collect any dust generated in sturdy containers to prevent dispersal. Dispose of in accordance with all federal, state, and local regulations. Generally, the dust is not considered a hazardous waste. |

## Section 14 – Transport Information

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| **Shipping Name:** | Not regulated |
| **Shipping Symbols:** | N/A |
| **Hazard Class:** | Not hazardous |
| **ID No:** | N/A |
| **Packing Group:** | Not determined |
| **Label:** | Not required |
| **Special Provisions:** | None |

## Section 15 – Regulatory Information

**Environmental Regulations:**

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| **RCRA:** | Not listed |
| **CERCLA:** | Not listed |
| **SARA 311/312 Codes:** | None |
| **SARA 313:** | None above de minimis quantity |

## Section 16 – Other Information

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| **Refer to NFPA 654**: | Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and Handling of Combustible Particulate Solids, for safe handling. |
| **HMIS:** | Health = 0<br>Fire = 1<br>Reactivity = 0 |
| **Issue Date:** | 2/15/21 |
| **Revision Date:** | 09/29/22 |

We believe that the above information is valid and reliable. The information, however, is provided without any representation of warranty, expressed or implied, regarding the accuracy of correctness. The conditions of methods of handling, storage, use, cutting, grinding, disposal, or other use of the product are beyond our control. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use, cutting, grinding, disposal, or any other use of this product.