

110 Kennedy Drive  
Hauppauge, NY 11788  
tel: 631.752.7837  
www.hyde-park.com

**MSDS**  
**Glass Fiber Reinforced**  
**Gypsum Fabrications**

**SECTION 1 — CHEMICAL PRODUCT IDENTIFICATION**

Product Trade Name(s): **Glass Fiber Reinforced Gypsum Fabrications [aka GFRG, GRG] by Hyde Park Mouldings**

Common Names: GFRG, GRG, Glass Fiber Reinforced Gypsum  
FRG, Fiber Reinforced Gypsum

Chemical Family:  $\text{CaO}_4\text{S}$  (Calcium Sulfate; Gypsum)

**SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS**

| Material                 | Weight % | CAS#                      |
|--------------------------|----------|---------------------------|
| Gypsum (Calcium Sulfate) | 90-95    | 007778-18-9<br>26499-65-0 |
| Glass Fiber              | 4-5      | 65997-17-3                |
| Portland Cement          | 1-2      | 65997-15-1                |
| Sand; Crystalline Silica | 1-4      | 14808-60-7                |

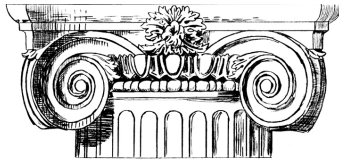
**SECTION 3 — HAZARDS IDENTIFICATION**

Product constituents are combined and cast into solid parts during the manufacturing process and are not hazardous under normal conditions of use. Potential health effects listed below are associated with the material constituents *during* the manufacturing process and not with the product handled by the end-user. End-user may experience irritation of the skin, eyes, nose, throat or upper respiratory tract as a result of exposure to dust generated from machining, cutting, grinding or crushing of the manufactured items.

**POTENTIAL HEALTH EFFECTS**

**Eye contact:** Eye contact with dust generated by the machining, cutting, grinding, crushing, etc. of the manufactured items may cause eye irritation, which may require immediate first-aid treatment to prevent damage to the eye.

**Inhalation:** Breathing the dust generated by the machining, cutting, grinding, crushing, etc. of the manufactured items may cause nose, throat or lung irritation, including coughing or choking, depending upon the duration and degree of exposure. Prolonged and/or repeated exposure to airborne crystalline silica particles may result in lung disease, such as Silicosis and/or cancer of the lungs. Crystalline silica is classified by the International Agency for Research on



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Cancer and the U.S. National Toxicology Program as a known human carcinogen.

**Skin Contact:** Direct dermal contact with the dust generated by the machining, cutting, grinding, crushing, etc. of the manufactured items may cause irritation or dry skin. Protective gloves should be used when handling.

**Ingestion:** No instances of ingestion have been recorded. Not applicable under normal conditions of use.

#### **SECTION 4 — FIRST AID MEASURES**

**Skin Contact:** Wash skin with soap and water. Seek medical attention if irritation persists

**Eye Contact** If wearing contact lenses, remove them. Flush eyes thoroughly with clean water for at least 15 minutes, including under the eyelids, to remove all particles. Seek immediate medical attention for abrasions.

**Inhalation** Relocate to fresh air. Seek medical attention for discomfort or if coughing or other symptoms persist.

**Ingestion** Seek medical attention.

#### **SECTION 5 — FIRE FIGHTING MEASURES**

**General Fire Hazards** Not flammable

**Extinguishing Media** Water or appropriate extinguishing media for surrounding fire

**Hazardous Combustion Products** None known

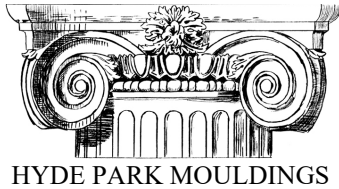
**Flashpoint / Method** Non-combustible

**Autoignition Temperature** Non-combustible

#### **SECTION 6 — ACCIDENTAL RELEASE MEASURES**

**Leak and Spill Procedures:**

The solid cast products as supplied to the end-user do not represent a spill hazard. Avoid actions that would cause airborne dust that could be inhaled, such as machining, cutting, grinding, crushing, etc. in an unenclosed or uncontrolled



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environment.

This material can be disposed of as inert solids in a landfill or by other procedures established by federal, state and local regulations.

**SECTION 7 — HANDLING AND STORAGE**

**Handling** The solid cast parts supplied to the end-user may be heavy and awkward to maneuver. Ensure sufficient manpower is allocated to the lifting, moving and maneuvering of the items in order to avoid injury, and always observe OSHA-recommended lifting and handling procedures.

Avoid breathing dust created by the machining, cutting, grinding, crushing, etc. of the solid cast items. Wear appropriate protective equipment as detailed in Section 8 below.

**Storage** If crated for transport, remove items from their crates upon arrival at the installation site, and store flat in a dry, well ventilated, low-traffic area. Protect items from precipitation.

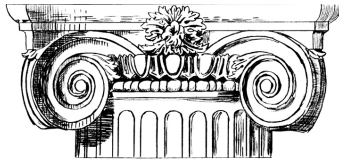
**SECTION 8 — EXPOSURE CONTROL / PERSONAL PROTECTION**

**Occupational Safety and Health Administration**  
**Permissible Exposure Limit (OSHA-PEL)**  
**T: Total R: Respirable**

| <b>Material</b>                          | <b>Weight %</b> | <b>OSHA-PEL (mg/m<sup>3</sup>)</b>                                 |
|--|-----------------|--|
| Gypsum (Calcium Sulfate)                 | 90-95           | 15T / 5R   |
| Glass Fiber                              | 4-5             | 15T / 5R   |
| Portland Cement                          | 1-2             | 15T / 5R   |
| Sand; Crystalline Silica                 | 1-4             | [(30)/(%SiO <sub>2</sub> +2)] T<br>[(10)/(%SiO <sub>2</sub> +2)] R |
| Particulate not regulated or established | -               | 15T / 5R   |

**Specific Engineering Controls** If dust is generated from the machining, cutting, grinding, crushing, etc. of the product, ventilate work area to maintain dust levels below permissible exposure limits. When normal ventilation is inadequate, use engineered enclosures, local exhaust ventilation and any other control measures to keep dust levels below permissible exposure limits.

**Personal Protection** General: Personal Protection Equipment will depend



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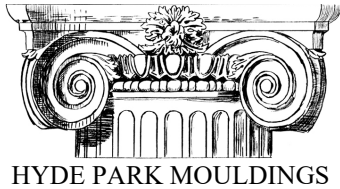
|                         |  |
|-------------------------|--|
| Equipment               | on site-specific operations and environmental working conditions.  |
| Respiratory Protection  | Under normal conditions, no respiratory protection is required. If dust levels rise above permissible exposure limits, wear a properly-fitted, NIOSH-approved respirator                                   |
| Eye and Face Protection | Safety glasses, goggles or face shield should be worn to avoid contact with particles  |
| Skin Protection         | Gloves and/or protective clothing should be worn to prevent prolonged skin contact, which may cause irritation. If protective equipment or clothing becomes dusty during operations, clean prior to reuse. |

**SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES**

|                            |                                |
|----------------------------|--------------------------------|
| Physical State:            | Solid Items                    |
| Consistency:               | 25-30 cc                       |
| Ultimate Tensile Strength: | 1200-1400 psi                  |
| Impact Strength:           | 8.0-8.8 ft. lb/in <sup>2</sup> |
| Rockwell Hardness:         | M72                            |
| Appearance:                | White / off-white / buff       |
| Odor                       | Low to no odor                 |
| Melting Point              | 1450°C                         |
| Freezing Point             | Not applicable                 |
| Boiling Point              | Not applicable                 |
| Flash Point:               | Not applicable                 |
| Specific Gravity:          | ~2.7 – 3.0                     |
| Bulk Density:              | 2-3 lbs / ft <sup>2</sup>      |
| Particle Size              | Varies                         |
| Solubility in Water:       | Not applicable                 |
| Evaporation Rate:          | Not applicable                 |
| Vapor Density:             | Not applicable                 |
| Vapor Pressure:            | Not applicable                 |

**SECTION 10 — STABILITY AND REACTIVITY**

|                           |   |
|---------------------------|---|
| Stability:                | Stable                                    |
| Conditions to Avoid:      | Keep product dry. Do not expose to acids. |
| Incompatibility:          | Avoid contact with acids.                 |
| Hazardous Polymerization: | Will not occur                            |
| Hazardous Decomposition:  | Above 1450°C – CaO and SO <sup>2</sup>    |



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**SECTION 11 — TOXICOLOGICAL INFORMATION**

Effects of Acute Exposure: None Known

Effects of Chronic Exposure: Crystalline silica is classified by the International Agency for Research on Cancer and the U.S. National Toxicology Program as a known human carcinogen. Exposure to respirable crystalline silica is not expected under ordinary handling and use of this product(s). Prolonged and/or repeated exposure to airborne crystalline silica particles may result in lung disease, such as silicosis and/or cancer of the lungs. The development of silicosis may increase the risks of additional health effects. The risk of developing silicosis depends upon the duration and intensity of exposure to respirable crystalline silica.

**SECTION 12 — ECOLOGICAL INFORMATION**

Environmental Toxicity: None Known.

**SECTION 13 — DISPOSAL CONSIDERATIONS**

Waste Disposal: This material is not classified as a hazardous waste material. It can be disposed of as inert solids in a landfill or by other procedures established by federal, state and local regulations.

**SECTION 14 — TRANSPORT INFORMATION**

Transport Considerations: The U.S. Dept does not classify this product as a Hazardous Material. of Transportation.