<table>
<thead>
<tr>
<th>Proper Name</th>
<th>Use within System</th>
<th>Name on General MSDS List</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polycore Panels</td>
<td>Ceiling Panel</td>
<td>Polycore panel</td>
</tr>
<tr>
<td>Fiberglass/Plastic Grid</td>
<td>Grid system</td>
<td>Grid</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
GridLock® Fiberglass Ceiling Suspension System

**Description**

GridLock Ceiling Suspension system is an aggregate of components made of polymer and/or fiberglass composite that form a rigid suspension grid system. The system is composed of main runners and cross members (2 and 4 feet long) in an inverted (T) tee configuration that are secured in place at their intersection with a series of locking clips. The locking intersections are generally centered at 2’ x 2’ or 2’ x 4’ but can be customized to accommodate occasional odd sizes. The grid can be fitted with a gasket to allow for a seal to appropriate panels and such panels can be locked in place from below; allowing for easy access to the interstitial space. The Gridlock installation is ideal for use in facilities where cleaning and disinfecting are critical. The surfaces are dense, stain resistant, chemical resistant and impervious to water. The system will not rust or deteriorate from continued exposure to water and chemicals.

GridLock Suspended Ceiling System is used in food service, animal holding rooms, utility corridors and clean room applications.

**Properties:**

**Fire Rating:** Class 1 ASTM E 84 (actual test flame spread of 5 and smoke developed of 65)

**Beam Strength:** 3-point bend test; failure @ 110 pounds in middle of 4’ span.

**Tensile Strength:** Pull apart with riveted splice clips 670 pounds force with 5 degree deflection.

**Compressive Strength:** Main Runner Junction with Riveted splice clip; 3400 pounds
Cross tee junction; 1000 pounds

**Deflection:** ASTM C 635: .0133” for 9.1 pounds per linear foot

**Pull Out Test:** 0.15” hole, 0.58 from top of web, 45 degree angle pull; 350 pounds
0.125” hole, 0.875” from top of web, 45 degree angle pull; 580 pounds

**Color:** White

**Finish:** Flat

**Cleaning:** GridLock ceilings can withstand daily surface washing, wet wiping, dusting and vacuuming. When used in conjunction with GridLock Gasket and lockdown systems it can withstand high-pressure washing. The resin finish will not support the growth of bacteria or mold.

**Components:**

1) 12’ polyester/fiberglass main runners
2) 2’ and 4’ cross tees made of polyester/fiberglass
3) 8’ polyester/fiberglass wall angle
4) PVC clips including splice clips to connect main runners, cross tee clips to secure the configuration of cross tees to the main runner and wall clips to secure the main runner and tee assembly to the wall angle which locks the system in place.

**Product Offering:** The GridLock Suspended System is offered in two configurations; Selected Access (SA) and Drop In (DI). Each of these configurations is offered in either 2’ x 2’ or 2’ x 4’. For the DI configuration panels are simply dropped into the grid space provided. In the SA design all grid openings are gasketed and 90% of the panels are installed with lock down clips from above while 10% are installed with accessible clips from below. In the A system all panels are accessible from below.

**Installation:** Prior to installation the area in consideration should be at operating conditions for temperature and relative humidity for at least 24 hours prior to and during installation to ensure proper fit and seal. Installation can be completed as Seismic rated.
GridLock® Polymer Core Ceiling Panel

**Description**
GridLock Polymer Core Ceiling panels are designed for use in facilities where cleaning and disinfecting are critical. The panels are finished in a square edge detail and seat above the fiberglass grid system. The panel interior is a polyester/polymer composite and will not absorb water. The exterior is .050 fiberglass encased in polyester resin and final coated with polyester gel coat mounted to the polyester/polymer composite on both the front and back. The final surface is dense, stain resistant, chemical resistant and impervious to water. The panel is non-generating for particulate matter and as such is ideal for the clean room environment.

GridLock Polymer Core Panels have the following characteristics:

**Finish:**

- **Fire Rating:** Class 1 ASTM E 84 for flame spread of 25 or less
- **Light Reflectance:** LR-1, 0.75 or greater
- **Minimum Weight:** 1.6 lbs. per square foot
- **Finish:** Polyester gel coat
- **Standard Sizes:** 2’x 2’ or 2’x 4’ (hard lid: 4’ x 8’ or 4’ x 10’)
- **Panel thickness:** 8 mm
- **Color:** White
- **Finish:** Flat

**Core:**

- **Hardness:** ASTM D-785 40-80
- **IZOD Impact:** ASTM D-256 7.0 ft-lbs/inch
- **Flexural Stiffness:** ASTM D-747 132,000 psi
- **Torsion Stiffness:** ASTM D-1043 140,000 psi
- **Elongation:** ASTM D-638 960%
- **Tensile Strength:** ASTM D-638 4450 psi

**Cleaning:** GridLock Polymer Panels can withstand daily surface washing, wet wiping, dusting and vacuuming. When used in conjunction with GridLock Gasket Grid and lockdown systems it can withstand high-pressure washing. The resinous finish will not support the growth of bacteria or mold.

**Demounting:** All ceiling panels can be removed from the ceiling grid by simply removing lock down clips. Selected access panels can be removed easily from below the ceiling to allow access to the interstitial space above using the GridLock clips.

**Product Offering:** Panels are incorporated into the GridLock System in three forms; Total Access (A), Selected Access (SA) and Drop In (DI). Panels can be cut to custom sizing if required.

**Sound Absorption:** N/A

**Installation:** Prior to installation the area in consideration should be at operating conditions for temperature and relative humidity for at least 24 hours prior to and during installation to ensure proper fit and seal.
SECTION 1  Product and Company Information

PRODUCT NAME: Plastic Grid
GENERIC NAME: polyester/glass reinforced solid plastic

DISTRIBUTOR: Life Science Products
124 Speer Road
Chestertown, MD 21620

Comments: To the best of our knowledge, this Material Safety Data Sheet conforms to the requirements of US OSHA 29 CFR1910.1200, 91/155/ECC and Canadian Hazardous Products Act

SECTION 2  Hazards Identification

Emergency Overview
This product contains no hazardous ingredients as defined under the criteria of the federal OSHA Hazard Communication Standard 29 CFR 1910.1200. Dust and other particulates generated during cutting, shaping or forming may cause eye, skin and respiratory tract irritation. This SDS contains information on the safe handling and proper use of the product. MSDS should be available for any person(s) in use of this product.

Emergency Overview: Not expected to cause any adverse health effects when handled as recommended.

Carcinogenicity:
Not listed by NTP
Not Listed by IARC
Not Listed by OSHA

Reproductive Effects: Not Available
Teratogenic Effects: No evidence of mutagenetic effects

Potential Health Effects- during mechanical manipulation
Eyes: Dusts and particulates may cause eye irritation
Skin: Dusts and particulates may cause skin irritation
Ingestion: Not likely a route of exposure under normal product usage
Inhalation: Dusts and particulates may cause respiratory tract irritation

SECTION 3  Composition / Information on Ingredients

Dionpolyester resin. Fully cured polyester/glass reinforced solid plastic

SECTION 4  First Aid Measures

Inhalation: Remove person to fresh air. If other respiratory symptoms develop, or person is breathing irregular, seek medical attention immediately.

Skin Contact: N/A

Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes.

Ingestion: N/A

SECTION 5  Fire Fighting Measures
### Material Safety Data Sheet

**Plastic Grid**

**Effective Date:** 01/01/2015  
**Previous Revision date:** 00/00/0000  
**Date Printed:** 3/19/2015

**SECTION 6  Accidental Release Measures**

No special containment and clean up procedures required. No evacuation procedures required.

**SECTION 7  Handling and Storage**

Storage: No special storage requirements  
Handling: Avoid dust generation. See Section 8 for personal protection.

**SECTION 8  Exposure Controls / Personal Protection**

**EXPOSURE GUIDELINES and Limits**

- **PROTECTIVE CLOTHING:** 
- **PROTECTIVE GLOVES**
- **RESPIRATORY PROTECTION:** Use approved respirator for fiberglass dust
- **RESPIRATOR SHOULD BE CHOSEN BASED ON EXPOSURE LEVELS.**
- **EYE PROTECTION:** Safety glasses with side shields are recommended to avoid splashes, mists or dusts.
- **HYGIENE PROTECTION:** An eye wash station and emergency shower in work area is recommended.
- **VENTILATIONS:** Ventilation is not normally required except to control dust. During cutting, drilling, etc, dust to be controlled eating and drinking are not to be done in the area of fabricating.

**SECTION 9  Physical and Chemical Properties**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Rigid plastic</td>
</tr>
<tr>
<td>Form</td>
<td>varies</td>
</tr>
<tr>
<td>Color</td>
<td>N/A</td>
</tr>
<tr>
<td>Melting/Freezing Temperature</td>
<td>N/A</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>Not determined</td>
</tr>
<tr>
<td>Autoignition Temperature</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Lower explosive limit; na</td>
<td>N/A</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Vapor Density (air=1)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Specific Gravity (water=1 @39.2F)</td>
<td>N/A</td>
</tr>
<tr>
<td>Evaporation Rate (Bac=1)</td>
<td>N/P</td>
</tr>
<tr>
<td>Odor</td>
<td>None</td>
</tr>
<tr>
<td>Odor threshold</td>
<td></td>
</tr>
<tr>
<td>Water Solubility</td>
<td>Insoluble</td>
</tr>
</tbody>
</table>

**SECTION 10  Stability and Reactivity**

- **REACTIVITY:** Product is stable.  
- **CONDITIONS TO AVOID:** Avoid dust generation  
- **INCOMPATIBLE MATERIALS:**  
- **HAZARDOUS POLYMERIZATION:** Will not occur under normal conditions.  
- **HAZARDOUS DECOMPOSITION:** Will not occur under normal conditions.

**SECTION 11  Toxicological Information**
Material Safety Data Sheet  Plastic Grid

Effective Date: 01/01/2015  Previous Revision date: 00/00/0000  Date Printed: 3/19/2015

| United States: | Acute Toxicity – Not Available |
|               | Chronic Toxicity – Not Available |
|               | Irritation/Corrosion – Not Available |
|               | Sensitizer – Not Available |
|               | Carcinogenicity – Not Available |
|               | Mutagenicity – Not Available |
|               | Teratogenicity – Not Available |
|               | Reproductive Toxicity – Not Available |

**SECTION 12 Ecological Information**

- Biodegradability: Not determined
- Aquatic Ecotoxicity: Not Determined
- Specific ecotoxicological data is not available for this product.

**SECTION 13 Disposal Considerations**

**Waste Disposal**
Disposal must comply with all Federal, State and Local regulations. See section 7 and 8 for handling and protection.

**SECTION 14 Transport Information**

| Not classified as hazardous for transport. | DOT Classification: Not Regulated |
| TDG Classification: Not Regulated |

**SECTION 15 Regulatory Information**

- U.S. Federal Regulations:
  - None Specified

**SECTION 16 Other Information**

Revised to be in compliance with new GHS regulations due by 12/1/2013.

**DISCLAIMER:** The above information is provided on the data available to us and believed to be true and accurate. The information contained herein is offered in good faith and no warranty, expressed or implied, are made regarding the accuracy of this data since conditions or use is beyond our control. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. LSP, Inc. assumes no responsibilities for the use of handling of this product.
SECTION 1  Product and Company Information

PRODUCT NAME: Polycore Panels
GENERIC NAME: Polymer panels and Fiberglass Reinforced Plastic
DISTRIBUTOR: Life Science Products
124 Speer Road
Chestertown, MD 21620

Comments: To the best of our knowledge, this Material Safety Data Sheet conforms to the requirements of US OSHA 29 CFR1910.1200, 91/155/ECC and Canadian Hazardous Products Act

SECTION 2  Hazards Identification

Emergency Overview
This product contains no hazardous ingredients as defined under the criteria of the federal OSHA Hazard Communication Standard 29 CFR 1910.1200. Dust and other particulates generated during cutting, shaping or forming may cause eye, skin and respiratory tract irritation. This SDS contains information on the safe handling and proper use of the product. MSDS should be available for any person(s) in use of this product.

Emergency Overview: Not expected to cause any adverse health effects when handled as recommended.

Carcinogenicity:
Not listed by NTP
Not Listed by IARC
Not Listed by OSHA

Potential Health Effects
Fabricating, Cutting, Drilling etc may cause dust. Eyes: Dusts and particulates may cause eye irritation. Skin: Dusts and particulates may cause skin irritation. Ingestion: Not likely a route of exposure under normal product usage. Inhalation: Dusts and particulates may cause respiratory tract irritation. Pre-existing conditions or respiratory disorders may cause more susceptibility to these effects.

Signs and Symptoms of Overexposure:
Irritation of nose, throat and respiratory tract.

GHS LABEL ELEMENTS, INCLUDING PRECAUTIONARY STATEMENTS

<table>
<thead>
<tr>
<th>Health</th>
<th>Environmental</th>
<th>Physical</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eye Irritant</td>
<td>None Known</td>
<td>Not Classified</td>
</tr>
<tr>
<td>Skin Irritant</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Respiratory Irritant</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Pictogram:

SECTION 3  Composition / Information on Ingredients

Not considered a hazardous material or controlled substance. TLV and PEL not established. Once extruded, stable solid material that is non-hazardous when handled or processed in accordance with good manufacturing practices and industrial hygiene practices.

<table>
<thead>
<tr>
<th>CAS</th>
<th>Component</th>
</tr>
</thead>
<tbody>
<tr>
<td>25087-34-7</td>
<td>1-Butene, polymer with ethene</td>
</tr>
<tr>
<td>25213-02-9</td>
<td>1-Hexene, polymer with ethene</td>
</tr>
<tr>
<td>N/A</td>
<td>Solid sheets composed of glass, calcium carbonate, titanium dioxide, alumina and pigment embedded in a cured polymerized styrenated/acrylated polyester</td>
</tr>
</tbody>
</table>

SECTION 4  First Aid Measures

Inhalation: Avoid inhalation if dust is generated. Remove person to fresh air. If other respiratory symptoms develop, or person is breathing irregular, seek medical attention immediately.

Skin Contact: Flush with large amounts of water, if irritation persists, get medical attention.

Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention. Eye injuries from glass particles should be treated by a physician immediately.

Ingestion: If ingested, get immediate medical attention or advice. Do not induce vomiting.
**SECTION 5  Fire Fighting Measures**

**FLAMMABILITY:** NO FIRE HAZARDS ANTICIPATED.

**FLASH POINT:** >343°C (CLOSED CUP)

**AUTO IGNITION TEMP:** TYPICALLY 650°F OR HIGHER

**EXTINGUISHING MEDIA:** DRY CHEMICAL, CO2, WATER SPRAY

**SPECIAL EXPOSURE:** REMOVE ALL PERSONS FROM THE AREA OF INCIDENT. ISOLATE THE SCENE AND ONLY ALLOW SUITABLE PERSONAL TO TAKE ACTION.

**HAZARDOUS THERMAL:** COMBUSTION MAY YIELD CO, CO2, ALPHATIC, KETONES, ALDEHYDES, AROMATIC HYDROCARBONS AND HALOGENATED COMPOUNDS.

**SPECIAL FIRE FIGHTING:** USE MEDIA BEST SUITED FOR FIRE ENVIRONMENT. USE SELF CONTAINED BREATHING APPARATUS AND MEDIA BEST SUITED TO FIRE ENVIRONMENT, .STATIC DISCHARGE COULD BE AN IGNITION SOURCE FOR A COMBUSTIBLE CONCENTRATION OF DUST.

---

**SECTION 6  Accidental Release Measures**

Vacuum or sweep up material and dispose of properly. No special containment and clean up procedures required. No evacuation procedures required.

---

**SECTION 7  Handling and Storage**

Storage: Store in cool, dry area away from heat, sparks and open flame.

Handling: Avoid dust generation. See Section 8 for personal protection.

---

**SECTION 8  Exposure Controls / Personal Protection**

**EXPOSURE GUIDELINES and Limits**

**PROTECTIVE CLOTHING:** NONE SPECIFIED

**RESPIRATORY PROTECTION:** IF DUST IS GENERATED, USE NIOSH/MSA APPROVED RESPIRATOR SUCH AS 3M 8710

**EYE PROTECTION:** GOGGLES ARE RECOMMENDED TO AVOID SPLASHES, MISTS OR DUSTS.

**HYGIENE PROTECTION:** WASH SKIN WITH SOAP AND WATER AFTER HANDLING. APPROPRIATE TECHNIQUES SHOULD BE USED TO REMOVE ANY CONTAMINATED CLOTHING AND CLOTHING SHOULD BE WASHED BEFORE REUSING.

**VENTILATIONS:** VENTILATION IS NOT NORMALLY REQUIRED EXCEPT TO CONTROL DUST. DURING CUTTING, DRILLING, ETC, DUST TO BE CONTROLLED AND KEPT PARTICULATE NOT TO EXCEED 30M PPCF

EATING AND DRINKING ARE NOT TO BE DONE IN THE AREA OF FABRICATING.

---

**SECTION 9  Physical and Chemical Properties**

**Appearance**

- Form: solid
- Color: varies
- pH: N/A
- Melting/Freezing Temperature: >248°F (120°C)
- Boiling Point: N/A

**Ignition Temperature**

- Higher than 451°F

**Autoignition Temperature**

- 390°C
- 110-135°C

**Vapor Pressure**

- 1.5-1.7 (core)

**Vapor Density (air=1)**

- Not applicable

**Specific Gravity (water=1 @39.2°F)**

- 1.2-1.8 (core)

**Evaporation Rate (Bac=1)**

- N/P

**Odor**

- Slight waxy

**Percent Volatile**

- Not applicable

**Water Solubility**

- insoluble
SECTION 10 Stability and Reactivity

**REACTIVITY:** PRODUCT IS STABLE.
**CONDITIONS TO AVOID:** AVOID DUST GENERATION
**INCOMPATIBLE MATERIALS:** MAY REACT WITH STRONG OXIDIZING AGENTS.
**HAZARDOUS POLYMERIZATION:** WILL NOT OCCUR UNDER NORMAL CONDITIONS.
**CHEMICAL STABILITY:** IF HEATED TO MORE THAN 300°C, THE PRODUCT MAY FORM VAPORS OR FUMES WHICH COULD CAUSE IRRITATION OF THE RESPIRATORY TRACT, COUGHING AND SHORTNESS OF BREATH. TO AVOID FIRE OR EXPLOSION, DISSIPATE STATIC ELECTRICITY DURING TRANSFER BY GROUNDING AND BONDING CONTAINERS AND EQUIPMENT BEFORE TRANSFERRING MATERIAL.
**DECOMPOSITION:** WILL NOT OCCUR UNDER NORMAL CONDITIONS. AT ELEVATED TEMPERATURES, MATERIAL WILL BEGIN TO DECOMPOSE, PRODUCING FUMES. FUMES AND FIRE MAY Produce CO2, CO, ALPHATIC AND AROMATIC COMPOUNDS, HALOGENATED COMPONENTS.

SECTION 11 Toxicological Information

**United States:**
- Acute Toxicity – Not Available
- Chronic Toxicity – Not Available
- Irritation/Corrosion – Not Available
- Sensitizer – Not Available
- Carcinogenicity – Not Available
- Mutagenicity – Not Available
- Teratogenicity – Not Available
- Reproductive Toxicity – Not Available

**COMPONENT ANALYSIS LD50/LC50**
- Oral LD50 Rat 4 g/kg

**COMPONENT CARCINOGENICITY**
None of the products components are listed by ACGIH, IARC, OSHA, NIOSH or NTP.

SECTION 12 Ecological Information

**GENERAL**
- Biodegradability: Not determined
- Aquatic Ecotoxicity: Not Determined
- Specific ecotoxicological data is not available for this product.
- COMPONENT ANALYSIS- Not available for this product

SECTION 13 Disposal Considerations

**Waste Disposal**
Not judged to be hazardous
Disposal must comply with all Federal, State and Local regulations. See section 7 and 8 for handling and protection.

SECTION 14 Transport Information

**Not classified as hazardous for transport.**
- DOT Classification: Not Regulated
- TDG Classification: Not Regulated

SECTION 15 Regulatory Information

**U.S. Federal Regulations:**
- Component Analysis None of the products components are listed under SARA section 302, SARA section 313, or CERCLA
- State Regulations Not listed on state limits from CA, MA, MN, NJ, or RI
- WHMIS IDL – no components listed

**Additional Regulatory Information**
- Component Analysis – Inventory

<table>
<thead>
<tr>
<th>CAS</th>
<th>Component</th>
<th>TSCA</th>
<th>CAN</th>
<th>EEC</th>
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<tbody>
<tr>
<td>25087-34-7</td>
<td>1-Butene, polymer with ethane</td>
<td>Yes</td>
<td>DSL</td>
<td>No</td>
</tr>
<tr>
<td>25213-02-9</td>
<td>1-Hexene, polymer with ethane</td>
<td>Yes</td>
<td>DSL</td>
<td>No</td>
</tr>
</tbody>
</table>
### SECTION 16 Other Information

HMIS Rating – Health 1, Fire 0, Reactivity 1 Revised to be in compliance with new GHS regulations due by 12/1/2013.

**DISCLAIMER:** The above information is provided on the data available to us and believed to be true and accurate. The information contained herein is offered in good faith and no warranty, expressed or implied, are made regarding the accuracy of this data since conditions or use is beyond our control. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. LSP, Inc. assumes no responsibilities for the use of handling of this product.