

<b><i>PolyCore DI Ceiling System</i></b>		
<b>Proper Name</b>	<b>Use within System</b>	<b>Name on General MSDS List</b>
Polycore Panels	Ceiling Panel	Polycore panel
Fiberglass/Plastic Grid	Grid system	Grid

### 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**

<b>PRODUCT NAME:</b> Plastic Grid <b>GENERIC NAME:</b> polyester/glass reinforced solid plastic  DISTRIBUTOR: Life Science Products 124 Speer Road Chestertown, MD 21620	Chemtrec 24 Hour Emergency Number 1-800-424-9300 Information Number: 1-800-666-6216 CRM# CCN722733
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**

<b>Emergency Overview</b> <b>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.</b>  Emergency Overview: Not expected to cause any adverse health effects when handled as recommended.	<b>Potential Health Effects- during mechanical manipulation</b> 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		
<b>Carcinogenicity:</b> Not listed by NTP Not Listed by IARC Not Listed by OSHA	Not listed Reproductive Effects : Not Available Teratogenic Effects: No evidence of mutagenetic effects	<b>Signs and Symptoms of Overexposure:</b>	
<b>GHS LABEL ELEMENTS, INCLUDING PRECAUTIONARY STATEMENTS</b>			
	<b>Health</b>	<b>Environmental</b>	<b>Physical</b>
Eye Irritant Skin Irritant, sensitizer Respiratory Irritant	None Known	Not Classified	Not Classified
Pictogram:			

**SECTION 3 Composition / Information on Ingredients**

Dionpolyester resin. Fully cured polyester/glass reinforced solid plastic
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**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

FLAMMABILITY: NO FIRE HAZARDS ANTICIPATED.  
 FLASH POINT: N/A  
 AUTO IGNITION TEMP: NO DATA  
 EXTINGUISHING MEDIA: NO FIRE HAZARD  
 SPECIAL EXPOSURE: REMOVE ALL PERSONS FROM THE AREA OF INCIDENT. ISOLATE THE SCENE AND ONLY ALLOW SUITABLE PERSONAL TO TAKE ACTION.  
 HAZARDOUS THERMAL: SPECIAL FIRE FIGHTING: USE MEDIA BEST SUITED FOR FIRE ENVIRONMENT.

**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**

Appearance	
Form	Rigid plastic
Color	varies
pH	N/A
Melting/Freezing Temperature	N/A
Boiling Point	N/A
Ignition Temperature	Not determined
Autoignition Temperature	Not applicable
Lower explosive limit; na	
Vapor Pressure	Not applicable
Vapor Density (air=1)	Not applicable
Specific Gravity (water=1 @39.2F)	N/A
Evaporation Rate (Bac=1)	N/P
Odor	None
Odor threshold	
Water Solubility	insoluble

**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**

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**

<b>Not classified as hazardous for transport.</b>	<b>DOT Classification: Not Regulated</b> <b>TDG Classification: Not Regulated</b>
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**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.

The information contained herein is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of this data or results to be obtained from the user thereof. LSP Performance Resins assumes no responsibility for personal injury or property damage to vendees, such vendees or users assume all risks associated with the use of the material.

**SECTION 1 Product and Company Information**

<b>PRODUCT NAME:</b> Polycore Panels	Chemtrec
<b>GENERIC NAME:</b> Polymer panels and Fiberglass Reinforced Plastic	24 Hour Emergency Number 1-800-424-9300
	Information Number: 1-800-666-6216
DISTRIBUTOR: Life Science Products	CRM# CCN722733
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**

<p>Emergency Overview</p> <p><b>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.</b></p> <p>Emergency Overview: Not expected to cause any adverse health effects when handled as recommended.</p>	<p>Potential Health Effects</p> <p>Fabricating. Cutting. Drilling etc may cause dust.</p> <p>Eyes: Dusts and particulates may cause eye irritation</p> <p>Skin: Dusts and particulates may cause skin irritation</p> <p>Ingestion: Not likely a route of exposure under normal product usage</p> <p>Inhalation: Dusts and particulates may cause respiratory tract irritation</p> <p>Pre-existing conditions or respiratory disorders may cause more susceptibility to these effects.</p>										
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:30%;">Carcinogenicity:</td> <td>Not listed</td> </tr> <tr> <td>Not listed by NTP</td> <td>Reproductive Effects : Not Available</td> </tr> <tr> <td>Not Listed by IARC</td> <td>Teratogenic Effects: No evidence of</td> </tr> <tr> <td>Not Listed by OSHA</td> <td>mutagenetic effects</td> </tr> </table>	Carcinogenicity:	Not listed	Not listed by NTP	Reproductive Effects : Not Available	Not Listed by IARC	Teratogenic Effects: No evidence of	Not Listed by OSHA	mutagenetic effects	<p>Signs and Symptoms of Overexposure:</p> <p>Irritation of nose, throat and respiratory tract.</p>		
Carcinogenicity:	Not listed										
Not listed by NTP	Reproductive Effects : Not Available										
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<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:25%;"></th> <th style="width:25%;">Health</th> <th style="width:25%;">Environmental</th> <th style="width:25%;">Physical</th> </tr> </thead> <tbody> <tr> <td>Eye Irritant</td> <td rowspan="3" style="text-align: center;">None Known</td> <td rowspan="3" style="text-align: center;">Not Classified</td> <td rowspan="3" style="text-align: center;">Not Classified</td> </tr> <tr> <td>Skin Irritant</td> </tr> <tr> <td>Respiratory Irritant</td> </tr> </tbody> </table>			Health	Environmental	Physical	Eye Irritant	None Known	Not Classified	Not Classified	Skin Irritant	Respiratory Irritant
	Health	Environmental	Physical								
Eye Irritant	None Known	Not Classified	Not Classified								
Skin Irritant											
Respiratory Irritant											
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.

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

**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: >343C (CLOSED CUP)  
 AUTO IGNITION TEMP: TYPICALLY 650 F OR HIGHER  
 EXTINGUISHING MEDIA: DRY CHEMICAL, CO<sub>2</sub>, 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, CO<sub>2</sub>, ALPHAIC, 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 (120C)
Boiling Point	N/A
Ignition Temperature	Higher than 451 F
Autoignition Temperature	390 C
Melting Point	110-135 C
Vapor Pressure	1.5-1.7 (core)
Vapor Density (air=1)	Not applicable
Specific Gravity (water=1 @39.2F)	1.2-1.8 (core)
Evaporation Rate (Bac=1)	N/P
Odor	Slight waxy
Percent Volitie	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 300C, 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, ALPHAIC 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	Carcinogenicity – Not Available Mutagenicity – Not Available Teratogenicity – Not Available Reproductive Toxicity – Not Available
COMPONENT ANALYSIS LD50/LC 50 1-Butene,polymer with ethane Oral LD 50 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**

<b>Not classified as hazardous for transport.</b>	<b>DOT Classification: Not Regulated</b> <b>TDG Classification: Not Regulated</b>
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**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**

CAS	Component	TSCA	CAN	EEC
25087-34-7	1-Butene, polymer with ethane	Yes	DSL	No
25213-02-9	1-Hexene, polymer with ethane	Yes	DSL	No



**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.

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