

<b>Ultra Clean III DI Ceiling System</b>		
<b>Proper Name</b>	<b>Use within System</b>	<b>Name on General MSDS List</b>
Ultra Clean III Panel	Ceiling Panel	UCIII 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® Ultra Clean III Composite Panel

### Description

GridLock Ultra Clean III Composite Panel is an aggregate of components made of a poly core laminated to powder coated aluminum front and back that forms a durable composite panel. The exposed face is poly coated aluminum. The surface finish is smooth and glossy and is ASTM E 84 Fire Rated.

The panel face is chemical resistant and can withstand high pressure wash down. The composite construction does not allow water infiltration making the panel moisture insensitive. The panel is recommended as a wall board installed directly over Gyp board or other hard board wall construction products. The panel is installed with a batten strip to conceal the butt joint. The Ultra Clean III panel greatly enhances the impact resistance and overall durability of standard Gyp construction and does not require subsequent painting.

Gridlock wall panels are ideal for use in facilities where cleaning and disinfecting are critical. The surface is dense, stain resistant, chemical resistant and impervious to water. The panels will not rust or deteriorate from continued exposure to water and chemicals.

GridLock Ultra Clean III panels can be used in food service, animal holding rooms, utility corridors and clean room applications.

### Properties:

#### 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:** 1.0 lbs. per square foot

**Finish:** Powder coated aluminum

**Standard Sizes:** 4' X 8' and 4' x 10' (Panels can be cut to custom sizing if required)

**Panel thickness:** 3 mm

**Color:** White

**Finish:** Gloss

**Cleaning:** GridLock Ultra Clean III panels can withstand daily surface washing, wet wiping, dusting and vacuuming and can withstand high-pressure washing. The resinous finish will not support the growth of bacteria or mold. The surface may scratch if an abrasive cleaner or brush is used.

**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**

Emergency Overview <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.	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		
Carcinogenicity: 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	Signs and Symptoms of Overexposure:	
<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

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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.

**SECTION 1 Product and Company Information**

<b>PRODUCT NAME:</b> UltraClean III panels <b>GENERIC NAME:</b> Polymetal  DISTRIBUTOR: Life Science Products, Inc. 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</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 Respiratory Irritant	None Known	Not Classified	Not Classified
Pictogram:			

**SECTION 3 Composition / Information on Ingredients**

Polymetal component contains (CAS#)

Aluminium 7429-90-5	Polyethylene 9002-88-4
Magnesium 7439-95-4	Manganese 7439-96-5
Silicon 7440-21-3	Iron 7439-89-6
Chromium 7440-47-3	Coatings

**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:** Immediately flush with large amounts of water. For itching, wash the skin with soap and water. Remove any contaminated clothing. If irritation, continues, seek medical attention.

**Eye Contact:** Immediately flush eyes with plenty of water and seek medical advice. Eye injuries from glass particles should be treated by a physician immediately.

**Ingestion:** Get immediate medical attention or advice Do not induce vomiting.

**SECTION 5 Fire Fighting Measures**

FLAMMABILITY: SEE SECTION 9 FOR FLAMMABILITY PROPERTIES – NO FIRE HAZARDS ANTICIPATED.  
 FLASH POINT: NOT DETERMINED  
 AUTO IGNITION TEMP: NO DATA  
 EXTINGUISHING MEDIA: USE EXTINGUISHING MEDIA SUITABLE FOR SURROUNDING AREA  
 SPECIAL EXPOSURE: REMOVE ALL PERSONS FROM THE AREA OF INCIDENT. ISOLATE THE SCENE AND ONLY ALLOW SUITABLE PERSONAL TO TAKE ACTION.  
 HAZARDOUS THERMAL: NOT DETERMINED  
 SPECIAL FIRE FIGHTING: USE MEDIA BEST SUITED FOR FIRE ENVIRONMENT. USE SELF CONTAINED BREATHING APPARATUS FOR LARGE SCALE FIRE FIREFIGHTERS SHOULD WEAR FULL PROTECTIVE GEAR.

**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

NAME	ACGIH	OSHA	NIOSH
Aluminum	1mg/m <sup>3</sup> TWA	1mg/m <sup>3</sup> TWA total dust 5mg/m <sup>3</sup> TWA (respirable fraction)	10 mg/m <sup>3</sup> TWA (total dust); 5mg/m <sup>3</sup> TWA (respirable dust)
Manganese	.2 mg/m <sup>3</sup> TWA	1mg/m <sup>3</sup> TWA (Fume); 3mg/m <sup>3</sup> STEL; 5 mg/m <sup>3</sup> Ceiling	1mg/m <sup>3</sup> TWA (Fume); 3mg/m <sup>3</sup> STEL;
Silicon		10 mg/m <sup>3</sup> TWA (total dust); 5mg/m <sup>3</sup> TWA (Respirable fraction)	10 mg/m <sup>3</sup> TWA (total dust); 5mg/m <sup>3</sup> TWA (Respirable dust)
Chromium	.5 mg/m <sup>3</sup> TWA	1mg/m <sup>3</sup> TWA	.5 mg/m <sup>3</sup> TWA

PROTECTIVE CLOTHING: NOT NORMALLY NEEDED

RESPIRATORY PROTECTION: NOT NORMALLY NEEDED

EYE PROTECTION: DUST GOGGLES

HYGIENE PROTECTION: AN EYE WASH STATION AND EMERGENCY SHOWER IN WORK AREA IS RECOMMENDED. 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. 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	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)	Not Determined
Evaporation Rate (Bac=1)	N/P



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Odor	None
Odor threshold	
Water Solubility	insoluble

<b>SECTION 10 Stability and Reactivity</b>	
<b>REACTIVITY:</b>	<b>PRODUCT IS STABLE.</b>
<b>CONDITIONS TO AVOID:</b>	<b>AVOID DUST GENERATION</b>
<b>INCOMPATIBLE MATERIALS:</b>	<b>NOT DETERMINED</b>
<b>HAZARDOUS</b>	
<b>POLYMERIZATION:</b>	<b>WILL NOT OCCUR UNDER NORMAL CONDITIONS.</b>
<b>HAZARDOUS</b>	
<b>DECOMPOSITION:</b>	<b>WILL NOT OCCUR UNDER NORMAL CONDITIONS.</b>

<b>SECTION 11 Toxicological Information</b>	
LD50/LC 50 Polyethylene – Inhalation LC50 Mouse 12 g/m3 30 Min Magnesium - Oral LD50 rat 230 mg/kg Manganese - Oral LD50 rat 9 g/kg Iron - Oral LD50 rat 984 mg/kg Silicon – Oral LD50 Rat 3160 mg/kg	Carcinogenicity Aluminum – ACGIH - A4 Not classified as human carcinogen Polyethylene – IARC- Supplement 7 Monograph 19 Chromium- ACGIH A4 Not classifiable as a human carcinogen IARC – Monograph 49 Supplement 7

<b>SECTION 12 Ecological Information</b>	
Biodegradability:	Not determined
Aquatic Ecotoxicity: Iron - 96 HR LC50 Monroe saxatilis – 13.6 mg/L (static) 96 HR LC 50 Cyprinus carpio .56 Mg/l (semi-static)	
Specific ecotoxicological data is not available for this product.	

<b>SECTION 13 Disposal Considerations</b>	
<b>Waste Disposal</b>	
Component Waste level- Chromium RCRA- 5.0 mg/L regulatory level	
Disposal must comply with all Federal, State and Local regulations. See section 7 and 8 for handling and protection.	

<b>SECTION 14 Transport Information</b>	
<b>Not classified as hazardous for transport.</b>	<b>DOT Classification: Not Regulated</b> <b>TDG Classification: Not Regulated</b>

<b>SECTION 15 Regulatory Information</b>	
U.S. Federal Regulations:	
Component Analysis- This material contains one or more of the following chemicals required to be identified under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65) and/or CERCLA (40 CFR 302.4)	
Aluminum (7429-90-5) SARA 313: 1.0% de minimus concentration (dust or fume only)	
Manganese (7439-96-5) SARA 313: 1.0% de minimus concentration	
Chromium (7440-47-3) CERCLA: 5000 lb final RQ (no reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is larger than 100 micrometers) 2270 kg final RQ (no reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is larger than 100 micrometers)	
State Regulations	
Component Analysis – State-	



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Component	CAS	CA	MA	MN	NJ	PA	RI
Aluminum	7429-90-5	Yes	Yes	Yes	Yes	Yes	Yes
Magnesium	7439-95-4	Yes	Yes	No	Yes	Yes	Yes
Manganese	7439-96-5	Yes	Yes	Yes	Yes	Yes	Yes
Iron	7439-89-6	Yes	No	No	No	No	No
Silicon	7440-21-3	No	Yes	Yes	Yes	Yes	Yes
Chromium	7440-47-3	Yes	Yes	Yes	Yes	Yes	Yes

Component Analysis – WHMIS-DL The following components are identified under the Canadian Hazardous Products Act Ingredients Disclosure Act

Component	CAS	Minimum Concentration
Aluminum	7429-90-5	1%
Manganese	7439-96-5	1%
Chromium	7440-47-3	0.1%

Additional Regulatory Information

Component Analysis – Inventory

Component	CAS	TSCA	CAN	EEC
Aluminum	7429-90-5	Yes	DSL	EINECS
Magnesium	7439-95-4	Yes	DSL	No
Manganese	7439-96-5	Yes	DSL	EINECS
Iron	7439-89-6	Yes	DSL	EINECS
Silicon	7440-21-3	Yes	DSL	EINECS
Chromium	7440-47-3	Yes	DSL	EINECS

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.

LSP PERFORMANCE RESINS  
800.638.9874

124 Speer Road  
FAX 410.778.3625

Chestertown, MD 21620  
web www.lspinc.com