

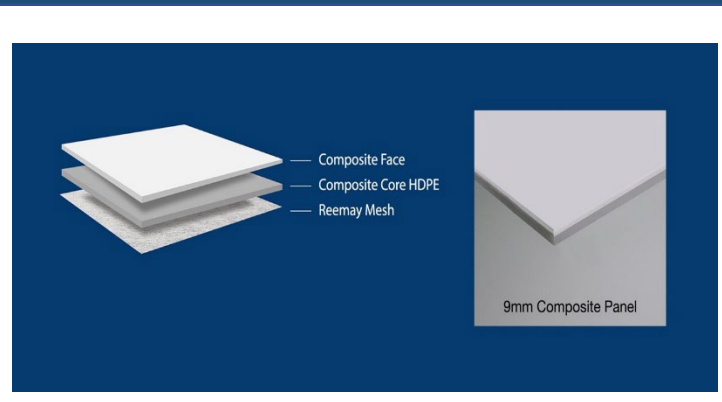
<b>BioCR 5 Wall System</b>		
<b>Proper Name</b>	<b>Use within System</b>	<b>Name on General MSDS List</b>
Polyurethane adhesive	Panel adhesive	9500 polyurethane adhesive
BioCR 5 Panel	Wall Panel	BioCR 5 Panel
BioCR Sealant A	Sealant (Part one of two)	BioCR A
BioCR Seant B	Sealant (Part two of two)	BioCR B



***The Bio/CR-5 is Designed to Make Unsightly, Damaged Block Walls look and Perform Better Than New!***

# ***Bio/CR-5***

## ***Seamless Wall Panel System***



### **Bio/CR-5 Features:**

- Turns damaged wall surfaces to “Like New” with minimal cost and effort
- Designed To Cover Existing Block, Gypsum, Metal, Coatings and Paint Walls
- Exceptional Impact Resistance and Impervious to Moisture
- Smooth High Gloss Face is both Chemical Resistant and Easy to Clean
- Class “A” Fire-Rated
- Unique “Woven Backer” Adheres to almost any existing wall surface
- The Bio/CR-5 “Wall System” provides a Long-Lasting, Sealed and Seamless Containment and Moisture Barrier for your facilities Interior Envelope

### **Life Science Products, Inc.**

124 Speer Road, Chestertown, MD 21620  
800-638-9874 | [www.lspinc.com](http://www.lspinc.com) | [info@lspinc.com](mailto:info@lspinc.com)

## Bio/CR-5 General Description:

The Bio/CR-5 Panel System is part of the LSP Bio-Containment/Clean Room product line. The composite panels are 6mm thick and are made of a Polymer Plastic backer and a Composite Glass Reinforced Resin Face. Panels are available in 4'x8', 4'x9', 4'x10' and other custom lengths. The surface is Class "A" Fire Rated based on the ASTM E-84 test. Edges are generally trimmed and sealed using a 100% solids, LEED compliant, gloss finish urethane compound, resulting in a seamless installed wall system. The smooth white surface is impervious to moisture and is highly stain, impact, and chemical resistant. The ability to mount the Bio/CR-5 directly to Concrete Block, Gypsum Board, Metal Panels or Concrete Walls eliminates the need to demolish and replace existing wall substrates. The Bio/CR-5 is designed to withstand routine high-pressure washing, chemical disinfection, and fumigation. The Bio/CR-5 can also be used as a ceiling panel in a "hard lid" ceiling application.

## Details and Physical Properties:

**Color:** White **Finish:** Glossy

**Panel Thickness:** 6mm (approximately ¼")

**Fire Rating:** Class "A" (1), per ASTM E-84

**Weight:** 2 pounds per square foot

**Hardness:** ASTM D2583 – 85 Barcol

**Compressive Strength:** ASTM D695 – 10,152 PSI

**Flexural Strength:** ASTM D790 – 7766 PSI

**Flexural Modulus:** ASTM D790 - 330,000 PSI

**Modulus of Elasticity:** ASTM D695-502,200 PSI

**Coefficient of Linear Expansion:**

ASTM D696 – 2.56 (E-05)

**Tensile Modulus of Elasticity:**

ASTM D638 – 217,000 PSI

**Tensile Strength:** ASTM D638 – 6,024 PSI

**LSP Products have been in demand by these and other highly respected institutions.**

Cleveland Clinic	Emory University
Dana Farber	M.D. Anderson
Harvard University	Northwestern University

## Surface Chemical Resistance:

Acetic Acid - Excellent  
Acetone - Good  
Benzene - Good  
Citric Acid (10%)- Excellent  
Chlorine/Water - Excellent  
Hydrofluoric Acid (10%)- Good  
Hydrogen Peroxide (28%) - Excellent  
Mineral Spirits - Excellent  
Nitric Acid (40%) - Excellent  
Potassium Chloride – Excellent  
Propyl Alcohol - Excellent  
Sodium Chloride (10%) - Excellent  
Sodium Hydroxide (10%)- Excellent  
Sodium Hypochlorite (5%) – Excellent  
Standard Soap Solution - Excellent  
Sulfuric Acid (30%) - Good  
Urea- Good

Excellent = No Surface Effect. No Yellowing

Good = Slight Change to Surface Opacity. No Yellowing

Correlation of test results with actual performance is dependent upon the similarity between testing and in-use conditions. LSP recommends you test our surface in your specific conditions before use of any chemical cleaning agent. Always follow manufacturer instructions for use procedures and removal of chemical agents. None of the above should be construed as a recommendation for use.

**The following test results were self-performed by LSP on common commercial chemicals used in the Bio-Medical research industry.**

Beta-Dyne - Good  
Denatured Alcohol - Excellent  
Hydroxy Acetic Acid - Excellent  
Phosphoric Acid - Good  
Potassium Hydroxide - Excellent  
Sodium Hypochlorite Alkaline - Excellent

The facts stated herein are based on our own research and the research of others and are believed to be accurate. No guaranty of their accuracy is made, however, and unless otherwise expressly provided in written contract, the products discussed are sold without conditions or warranties, express or implied. Clients should perform their own tests to determine the suitability of our products for their particular purposes. Nothing contained herein shall be construed to be a recommendation for use.

Duke University	University of North Carolina	
Novartis	Pfizer	Bristol Meyer Squib
Walter Reed	Regeneron	Yale University
Ohio State U.	N.I.H.	Children's Mercy
CalTech Univ.	F.D.A.	Princeton University

Material Safety Data Sheet	Bio/CR-5 Panels00/00/0000
Effective Date: 01/01/2023	Previous Revision date: 00/00/0000
	Date Printed: 1/1/2023

<b>SECTION 1 Product and Company Information</b>	
<b>PRODUCT NAME:</b> Bio/CR-5 Panels	Chemtrec
<b>GENERIC NAME:</b> Fiberglass reinforced Plastic and poly w/nonwoven fabric	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	

<b>SECTION 2 Hazards Identification</b>			
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>	Potential Health Effects 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		
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	Not listed Reproductive Effects : Not Available Teratogenic Effects: No evidence of mutagenetic effects	Signs and Symptoms of Overexposure: No specific data	
<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:			

<b>SECTION 3 Composition / Information on Ingredients</b>
Panels are solid sheets composed of glass, calcium carbonate, titanium dioxide, alumina and pigment embedded in a cured polymerized, styrenated/acrylated polyester. Non Woven material is a mixture of nonhazardous material including polyester (80-90%) Binder resin(10-20%), Optical brighteners (,1-1%) and Siloxanes and Silicones, di, Me (0-.1%)

<b>SECTION 4 First Aid Measures</b>	
Inhalation:	Remove person to fresh air. If other respiratory symptoms develop, or person is breathing irregular, seek medical attention immediately.
Skin Contact:	Wash thoroughly after handling
Eye Contact:	Immediately flush eyes with plenty of water for at least 15 minutes.
Ingestion:	N/A
<b>PROTECTION OF FIRST RESPONDERS- NO ACTION TO BE TAKEN INVOLVING PERSONAL RISK OR WITHOUT SUITABLE TRAINING</b>	

**SECTION 5 Fire Fighting Measures**

FLAMMABILITY: NO FIRE HAZARDS ANTICIPATED.  
 FLASH POINT: HIGHER THAN PAPER, 451 F  
 AUTO IGNITION TEMP: NO DATA  
 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, ALIPHATIC AND AROMATIC HYDROCARBONS AND HALOGENATED COMPOUNDS. TESTS SHOW COMBUSTION GASES TO BE LESS TOXIC THAN THOSE FROM WOOD. .  
 SPECIAL FIRE FIGHTING: USE MEDIA BEST SUITED FOR FIRE ENVIRONMENT. USE SELF CONTAINED BREATHING APPARATUS FOR LARGE SCALE FIRE. FIRE FIGHTERS SHOULD WEAR APPROPRIATE PROTECTIVE EQUIPMENT AND SELF CONTAINED BREATHING APPARATUS (SCBA) WITH FULL FACE-PIECE OPERATED IN POSITIVE PRESSURE MODE.

**SECTION 6 Accidental Release Measures**

For Non- emergency Personnel- No action to be taken involving any personal risk or without suitable training. Evacuate surrounding area. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment. FOR Responders- If specialized clothing is required to deal with spillage, take note of information in section 8 for suitable and unsuitable materials. . Inform relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air) In case of spill, Use appropriate tools to transfer spilled solid to convenient waste container.

**SECTION 7 Handling and Storage**

Storage: Prevent product contamination. Store in a cool, well ventilated area away from incompatible materials and ignition sources.  
 Handling: Avoid dust generation. See Section 8 for personal protection.  
 GENERAL – Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking or smoking. Remove contaminated clothing and protective equipment before entering eating areas. See section 8 for hygiene measures.

**SECTION 8 Exposure Controls / Personal Protection**

EXPOSURE GUIDELINES and Limits  
**OCCUPATIONAL EXPOSURE LIMITS - NONE**  
**PROTECTIVE CLOTHING:** PROTECTIVE GLOVES. LEATHER RECOMMENDED PARTICULATE FILTER RESPIRATOR THAT IS PROPERLY FITTED.  
**RESPIRATORY PROTECTION:** Use MSHA-NIOSH APPROVED RESPIRATOR SUCH AS 3M 8710 WHEN GENERATING DUSTS  
 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. WASH SKIN WITH SOAP AND WATER AFTER HANDLING, PARTICULARLY HANDS, FOREARMS AND FACE. APPROPRIATE TECHNIQUES SHOULD BE USED TO REMOVE ANY CONTAMINATED CLOTHING AND CLOTHING SHOULD BE WASHED BEFORE REUSING.  
**VENTILATIONS:** GOOD GENERAL VENTILATION NORMALLY REQUIRED EXCEPT TO CONTROL DUST AND AIRBORNE CONTAMINANTS. 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.  
 EVALUATION SHOULD BE DONE TO ASSESS RISK AND A SPECIALIST SHOULD APPROVE OTHER PROTECTION, IF RISK ASSESSMENT INDICATES.

**SECTION 9 Physical and Chemical Properties**

Appearance	
Form	Rigid sheet
Color	varies
pH	N/A
Melting/Freezing Temperature	>165 C (>329 F)
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

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Specific Gravity (water=1 @39.2F)	N/A
Evaporation Rate (Bac=1)	N/P
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>ALKALI, STRONG MINERAL ACIDS, HYDROFLORIC ACIDS. MAY REACT WITH STRONG OXIDIZING AGENTS.</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. FIRE MAY PRODUCE CO2, CO, ALPHAIC AND AROMATIC COMPOUNDS, HALOGENATED COMPONENTS LESS TOXIC THAN WOOD.</b>

<b>SECTION 11 Toxicological Information</b>	
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

<b>SECTION 12 Ecological Information</b>	
Biodegradability:	Not determined
Aquatic Ecotoxicity:	Not Determined
Specific ecotoxicological data is not available for this product.	
No known significant effects or critical hazards	

<b>SECTION 13 Disposal Considerations</b>	
<b>Waste Disposal</b>	
Component Waste level- Chromium RCRA- 5.0 mg/L regulatory level	
Minimize waste generation whenever possible Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. 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:	SARA 302/304 – no ingredients found
CWA 29H,31H-phthalocyaninato(2-) –	SARA 304 RQ – Not applicable
N29,N30,N31,N32 copper	SARA 311-312 – No ingredients found
TSCA- all components are listed or exempted	Clean Air 602 Class I- Not listed



Clean Air section 112 – Not listed	Clean Air 602 Class II – Not listed
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<b>STATE REGULATIONS</b>				
Ingredient name	Cancer	Reproductive	No Significant risk level	Maxium acceptable dosage level
Carbon black, non respirable	YES	NO	NO	NO
CANADA				
WHMIS Not controlled under WHMIS (Canada)				
Canadian lists NPRI and CEPA – None of the components are listed				
Canada Inventory- All components are listed or exempted				

**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 V – Reactivity Data**

Stability	Unstable	N/A	Conditions to avoid N/A
	Stable	XX	

Incompatibility (Materials to Avoid) **Alkali, strong mineral acids, hydrofluoric acids**

Hazardous Decomposition of Byproducts  
**Combustion may yield CO, CO2, aliphatic and aromatic compounds, halogenated compounds less toxic than wood**

Hazardous Polymerization	May Occur	N/A	Conditions to Avoid N/A
	Will Not Occur	N/A	

**Section VI – Health Hazard Data**

Route(s) of Entry	Inhalation? <b>X</b>	Skin? N/A	Ingestion? N/A
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Health Hazards (Acute and Chronic)  
**Fabricating, cutting, drilling ect. of Kal-Lite sheet may produce dust. Dust should be controlled and particulate level not to exceed 30M ppcf.**

Carcinogenicity	NTP? N/A	IARC Monographs ? N/A	OSHA Regulated? N/A
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Signs and Symptoms of Exposure  
**Inhalation of dust in excess of TLV may result in possible irritation of upper respiratory tract.**

Medical Conditions  
 Generally Aggravated by Exposure **Any condition generally aggravated by mechanical irritants in the air, or on the skin.**

Emergency or First Aid Procedures  
**Prolonged skin contact:** To reduce itching, wash with soap and warm water.  
**Eye Contact:** Flush with running water for at least 15 minutes.

**Section VII – Precautions for Safe Handling and Use**

Steps to be Taken in Case Material is Released or Spilled  
**N/A**

Waste Disposal Method  
**Dispose of as solid waste, as directed by an appropriate local, state or federal authority**

Precautions to be Taken in Handling and Storing  
**Store away from open flame and/ or torch. Wash skin with soap and water after handling.**  
**Wash dusty work clothes separately.**

Other Precautions  
**Eating & drinking should not be done in the fabricating area**

**Section VIII – Control Measures**

Respiratory Protection  
**Use NIOSH/ MSHA approved respirator as 3M8710, When machining, cutting or drilling.**

Ventilation	Local Exhaust Use adequate ventilation to control dust	Special N/A
	Mechanical (General) N/A	Other N/A

Protective Gloves <b>When fabricating, ect...</b>	Eye Protection <b>When fabricating, tooling, cutting, ect...</b>
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Other protective clothing or Equipment **N/A**  
 Work/ Hygienic Practices

**Keep dust particles to a minimum and keep work area clean.**

\*NOTE: The above information is accurate to the best of our knowledge. However, since data, safety standards and government regulations are subject to change and the conditions of use, or misuse, are beyond our control. Kal-Lite Sales Division makes no warranty, either expressed or implied, with respect to the completeness of continuing accuracy of the information contained herein and disclaims all liability for reliance thereon. User should be satisfied that he has all current data relevant to his particular use.



# USA SAFETY DATA SHEET

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name: **LORD 7555 E**  
Product Use/Class: **Adhesive / Sealant**

LORD Corporation  
111 LORD Drive  
Cary, NC 27511-7923 USA

Telephone: 814 868-3180  
Non-Transportation Emergency: 814 763-2345  
Chemtrec 24 Hr Transportation Emergency No.  
800 424-9300 (Outside Continental U.S. 703 527-3887)

**EFFECTIVE DATE:** 08/05/2016

## 2. HAZARDS IDENTIFICATION

### GHS CLASSIFICATION:

All components of this product have either not been classified according to GHS or are below the threshold concentration required for classification. Please refer to section 2-Other Hazards for possible hazards associated with this product.

### Hazard Statements

Refer to Section 2; Other Hazards.

### Precautionary Statements

#### Prevention

Refer to Section 6 of this SDS.

#### Response

Refer to Section 4 of this SDS.

#### Storage

Refer to Section 7 of this SDS.

#### Disposal:

Dispose of contents/container in accordance with waste/disposal laws and regulations of your country or particular locality.

### Other Hazards:

**This product contains component(s) which have the following warnings; however based on the GHS classification criteria of your country or locale, the product mixture may be outside the respective category(s).**

**Acute:** Eye contact may cause slight irritation. May cause mild skin irritation. Harmful if swallowed. Ingestion is not an expected route of entry in industrial or commercial uses.

**Chronic:** IARC has designated titanium dioxide (TiO<sub>2</sub>) as Group 2B □ possibly carcinogenic to humans in dust form. However, a number of long term animal studies and human epidemiology studies evaluating TiO<sub>2</sub> and workplace exposure show insufficient evidence for carcinogenic effects. EPA, NTP and OSHA do not designate TiO<sub>2</sub> as a carcinogen and ACGIH designates TiO<sub>2</sub> as A4 - not classifiable as a human carcinogen. Mortality from other chronic diseases, including other respiratory diseases, was not associated with exposure to TiO<sub>2</sub> dust. TiO<sub>2</sub> is not present in this product as a dust and no airborne exposure is expected during application.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	Range
Titanium dioxide	13463-67-7	5 - 10 %

Any "PROPRIETARY" component(s) in the above table is considered trade secret, thus the specific chemical and its exact concentration is being withheld.

## 4. FIRST AID MEASURES

**FIRST AID - EYE CONTACT:** Flush eyes immediately with large amount of water for at least 15 minutes holding eyelids open while flushing. Get prompt medical attention.

**FIRST AID - SKIN CONTACT:** Flush contaminated skin with large amounts of water while removing contaminated clothing. Wash affected skin areas with soap and water. Get medical attention if symptoms occur.

**FIRST AID - INHALATION:** This material is not likely to be hazardous by inhalation. However, if exposed to excessive levels of vapor or mist, remove to fresh air, give oxygen if breathing is difficult, and get immediate medical attention.

**FIRST AID - INGESTION:** If swallowed, do not induce vomiting. Call a physician or poison control center immediately for further instructions. Never give anything by mouth if victim is rapidly losing consciousness, unconscious or convulsing.

## 5. FIRE-FIGHTING MEASURES

**SUITABLE EXTINGUISHING MEDIA:** Carbon Dioxide, Dry Chemical, Foam, Water Fog

**UNSUITABLE EXTINGUISHING MEDIA:** Not determined for this product.

**SPECIFIC HAZARDS POSSIBLY ARISING FROM THE CHEMICAL:** Keep containers tightly closed. Closed containers may rupture when exposed to extreme heat. Use water spray to keep fire exposed containers cool. During a fire, irritating and/or toxic gases and particulate may be generated by thermal decomposition or combustion.

**SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIRE-FIGHTERS:** Wear full firefighting protective clothing, including self-contained breathing apparatus (SCBA). If water is used, fog nozzles are preferable.

## 6. ACCIDENTAL RELEASE MEASURES

**PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT, AND EMERGENCY PROCEDURES:** Avoid contact. Avoid breathing vapors.

**ENVIRONMENTAL PRECAUTIONS:** Do not contaminate bodies of water, waterways, or ditches, with chemical or used container.

**METHODS AND MATERIALS FOR CONTAINMENT AND CLEANUP:** Keep non-essential personnel a safe distance away from the spill area. Notify appropriate authorities if necessary. Avoid contact. Before attempting cleanup, refer to hazard caution information in other sections of the SDS form. Contain and remove with inert absorbent material.

## 7. HANDLING AND STORAGE

**HANDLING:** Keep closure tight and container upright to prevent leakage. Avoid skin and eye contact. Wash thoroughly after handling. Do not handle until all safety precautions have been read and understood. Empty containers should not be re-used. Use with adequate ventilation.

**STORAGE:** Store only in well-ventilated areas. Keep container closed when not in use.

**INCOMPATIBILITY:** Acids, caustics, amines, ammonia, halogens, and isocyanates.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### COMPONENT EXPOSURE LIMIT

<u>Chemical Name</u>	<u>ACGIH TLV-TWA</u>	<u>ACGIH TLV-STEL</u>	<u>OSHA PEL-TWA</u>	<u>OSHA PEL-CEILING</u>	<u>Skin</u>
Titanium dioxide	10 mg/m3	N.E.	15 mg/m3	N.E.	N.A.

N.A. - Not Applicable, N.E. - Not Established, S - Skin Designation

**Engineering controls:** Provide adequate general ventilation where this product is used.

**PERSONAL PROTECTION MEASURES/EQUIPMENT:**

**RESPIRATORY PROTECTION:** Respiratory protection is not required under normal working conditions where adequate ventilation is present.

**SKIN PROTECTION:** Use neoprene, nitrile, or rubber gloves to prevent skin contact.

**EYE PROTECTION:** Use safety eyewear including safety glasses with side shields and chemical goggles where splashing may occur.

**OTHER PROTECTIVE EQUIPMENT:** Remove and wash contaminated clothing before reuse.

**HYGIENIC PRACTICES:** Wash hands before eating, smoking, or using toilet facility. Do not smoke in any chemical handling or storage area. Food or beverages should not be consumed anywhere this product is handled or stored. Wash thoroughly after handling.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Typical values, not to be used for specification purposes.

<b>ODOR:</b>	Slight	<b>VAPOR PRESSURE:</b>	N.D.
<b>APPEARANCE:</b>	White	<b>VAPOR DENSITY:</b>	Heavier than Air
<b>PHYSICAL STATE:</b>	Paste	<b>LOWER EXPLOSIVE LIMIT:</b>	Not Applicable
<b>FLASH POINT:</b>	≥ 201 °F, 93 °C	<b>UPPER EXPLOSIVE LIMIT:</b>	Not Applicable
	Setaflash Closed Cup		
<b>BOILING RANGE:</b>	N.A.	<b>EVAPORATION RATE:</b>	Not Applicable
<b>AUTOIGNITION TEMPERATURE:</b>	N.D.	<b>DENSITY:</b>	1.2 g/cm <sup>3</sup> - 10.00 lb/gal
<b>DECOMPOSITION TEMPERATURE:</b>	N.D.	<b>VISCOSITY, DYNAMIC:</b>	N.D.
<b>ODOR THRESHOLD:</b>	N.D.	<b>VISCOSITY, KINEMATIC:</b>	N.D.
<b>SOLUBILITY IN H<sub>2</sub>O:</b>	Insoluble	<b>VOLATILE BY WEIGHT:</b>	0.00 %
<b>pH:</b>	N.A.	<b>VOLATILE BY VOLUME:</b>	0.00 %
<b>FREEZE POINT:</b>	N.D.	<b>VOC CALCULATED:</b>	0 lb/gal, 0 g/l
<b>COEFFICIENT OF WATER/OIL DISTRIBUTION:</b>	N.D.		

**LEGEND:** N.A. - Not Applicable, N.E. - Not Established, N.D. - Not Determined

### 10. STABILITY AND REACTIVITY

**HAZARDOUS POLYMERIZATION:** Hazardous polymerization will not occur under normal conditions.

**STABILITY:** Product is stable under normal storage conditions.

**CONDITIONS TO AVOID:** High temperatures.

**INCOMPATIBILITY:** Acids, caustics, amines, ammonia, halogens, and isocyanates.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Carbon monoxide, carbon dioxide, Metal oxides

### 11. TOXICOLOGICAL INFORMATION

**EXPOSURE PATH:** Refer to section 2 of this SDS.

**SYMPTOMS:** Refer to section 2 of this SDS.

**TOXICITY MEASURES:**

Chemical Name	LD50/LC50
Titanium dioxide	Oral LD50: Rat > 10,000 mg/kg Dermal LD50: rabbit > 5,000 mg/kg GHS LC50 (vapour): Acute toxicity point estimate 55 mg/l

**Germ cell mutagenicity:** No classification proposed

**Carcinogenicity:** No classification proposed

**Reproductive toxicity:** No classification proposed

**12. ECOLOGICAL INFORMATION**

**ECOTOXICITY:**

<b>Chemical Name</b>	<b>Ecotoxicity</b>
Titanium dioxide	N.D.

**PERSISTENCE AND DEGRADABILITY:** Not determined for this product.

**BIOACCUMULATIVE:** Not determined for this product.

**MOBILITY IN SOIL:** Not determined for this product.

**OTHER ADVERSE EFFECTS:** Not determined for this product.

**13. DISPOSAL CONSIDERATIONS**

**DISPOSAL METHOD:** Disposal should be done in accordance with Federal (40CFR Part 261), state and local environmental control regulations. If waste is determined to be hazardous, use licensed hazardous waste transporter and disposal facility.

**14. TRANSPORT INFORMATION**

This product is NOT REGULATED for non-bulk US DOT Road, IATA Cargo or IMDG shipments. For the most accurate shipping information, refer to your transportation/compliance department regarding changes in package size, mode of shipment or other regulatory descriptors.

**15. REGULATORY INFORMATION**

**U.S. FEDERAL REGULATIONS: AS FOLLOWS:**

**SARA SECTION 313**

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372.:

NONE

**TOXIC SUBSTANCES CONTROL ACT:**

**INVENTORY STATUS**

The chemical substances in this product are on the TSCA Section 8 Inventory.

**EXPORT NOTIFICATION**

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States:

NONE

**16. OTHER INFORMATION**

Under HazCom 2012 it is optional to continue using the HMIS rating system. It is important to ensure employees have been trained to recognize the different numeric ratings associated with the HazCom 2012 and HMIS schemes.

**HMIS RATINGS - HEALTH:** 1    **FLAMMABILITY:** 1    **PHYSICAL HAZARD:** 0

\* - Indicates a chronic hazard; see Section 2

**Revision:** Section 1

**Effective Date:** 08/05/2016

<b>DISCLAIMER</b>
-------------------

The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by use of this material. It is the responsibility of the user to comply with all applicable federal, state and local laws and regulations.



# MATERIAL SAFETY DATA SHEET



PREMIER BUILDING SOLUTIONS, INC.

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## XTRABOND 9500 MODIFIED POLYURETHANE SEALANT WHITE

### 1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION

**Product Brand Name:** XtraBond 9500 Modified Hybrid Sealant

**Product Use:** Sealant & Adhesive

**Proper DOT Shipping:** Caulking & Glaziers, NOI

**DOT Hazard Classification:** NONE

**Molecular Formula:** Mixture

**NFPA Profile:** Health 2      Flammability 1      Instability/Reactivity 0

Note: NFPA = National Fire Protection Association

#### Company Contact Information

Premier Building Solutions, Inc.  
480 Nova Drive  
Massillon, OH. 44646

#### Emergency Telephone Number

CHEMTREC: 800-424-9300 (24 hours)  
Telephone: 866-512-4583

### 2. HAZARDS IDENTIFICATION

#### POTENTIAL HEALTH EFFECTS

##### Acute Effects

- Eye:** Direct contact may cause moderate irritation. Symptoms include stinging, tearing, redness, and swelling of eyes.
- Skin:** May cause moderate irritation. Symptoms may include redness and burning of skin.
- Inhalation:** Irritates respiratory passages very slightly. Vapor overexposure may be harmful and cause drowsiness.
- Oral:** Swallowing large amounts may cause drowsiness.

##### Prolonged/Repeated Exposure Effects

- Skin:** Repeated or prolonged contact may cause defatting and drying of skin which may result in skin irritation and dermatitis. Overexposure by skin absorption may injure the following organ(s): Liver.
- Inhalation:** Overexposure by inhalation may injure the following organ(s): Liver.
- Oral:** Overexposure by ingestion may injure the following organ(s): Liver.

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### Signs and Symptoms of Overexposure

No known applicable information.

### Medical Conditions Aggravated by Exposure

Eye or skin disease.

The above listed potential effects of overexposure are based on actual data, results of studies performed upon similar compositions, component data and/or expert review of the product. Please refer to Section 11 for the detailed toxicology information.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>CAS Number</u>	<u>Wt %</u>	<u>Component Name</u>
1317-65-3	<50%	Calcium Carbonate
-----	<50%	Proprietary Polymers
13463-67-7	<10%	Titanium Dioxide

The above components are hazardous as defined in 29 CFR 1910.1200.

### 4. FIRST AID MEASURES

Eye:	Immediately flush the contaminated eye(s) with lukewarm, gently flowing water for 15 – 20 minutes while holding the eyelid(s) open. If contact lens is present, DO NOT delay irrigation or attempt to remove the lens. Take care not to rinse contaminated water into the unaffected eye or onto the face. Immediately obtain medical attention.
Skin:	Remove contaminated clothing, shoes and leather goods (e.g. watchbands, belts). Quickly and gently blot or brush away excess chemical. Flush with lukewarm gently flowing water for 15 minutes. If irritation persists, repeat flushing. If irritation persists, obtain medical advice.
Inhalation:	Material is not likely to present an inhalation hazard at ambient conditions. If material is heated or vapor is generated, care should be taken to prevent inhalation. In case of exposure to vapor, move to fresh air.
Oral:	Never give anything by mouth if victim is rapidly losing consciousness or convulsing. DO NOT INDUCE VOMITING. Have victim drink 2 to 8 oz. (60 to 240 mL) of water. If vomiting occurs naturally, have victim lean forward to reduce the risk of aspiration. Have victim rinse mouth with water again. Obtain medical attention.

Note to Physician: Treat according to person's condition and specifics of exposure.

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### 5. FIRE FIGHTING MEASURES

- Flash Point: > 212F/100C (Closed Cup)
- Autoignition Temperature: Not determined.
- Flammability Limits in Air: Not determined.
- Extinguishing Media: On large fires use fog, foam or water spray. On small fires use carbon dioxide (CO<sub>2</sub>), dry chemical or foam. Water can be used to cool fire exposed containers.
- Fire Fighting Measures: Self-contained breathing apparatus and protective clothing should be worn in fighting large fires involving chemicals. Determine the need to evacuate or isolate the area according to your local emergency plan. Use water spray to keep fire exposed containers cool.
- Unusual Fire Hazards: None.

### 6. ACCIDENTAL RELEASE MEASURES

- Containment/Clean up: Ventilate area. Observe all personal protection equipment recommendations described in Sections 5 and 8. Wipe up or scrape up and contain for salvage or disposal. Clean area as appropriate since spilled materials, even in small quantities, may present a slip hazard. Final cleaning may require use of steam, solvents or detergents. Dispose of saturated absorbent or cleaning materials appropriately, since spontaneous heating may occur. Local, state and federal laws and regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which federal, state and local laws and regulations are applicable. Sections 13 and 15 of this MSDS provide information regarding certain federal and state requirements.

Note: See Section 8 for Personal Protective Equipment for Spills.

### 7. HANDLING AND STORAGE

Use with adequate ventilation to keep area below established exposure levels. Avoid eye contact. Avoid skin contact. Avoid breathing vapor. Keep container closed. Do not take internally.

Use reasonable care and store away from acidic and oxidizing materials. Keep container closed and store away from water or moisture.

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### 8. EXPOSURE CONTROLS & PERSONAL PROTECTION

#### Component Exposure Limits

<u>CAS Number</u>	<u>Component Name</u>	<u>Exposure Limits</u>
1317-65-3	Calcium Carbonate	OSHA PEL 15 mg/m <sup>3</sup> , ACGIH TLV 10 mg/m <sup>3</sup>
13463-67-7	Titanium Dioxide	OSHA PEL 15 mg/m <sup>3</sup> , ACGIH TLV 10 mg/m <sup>3</sup>

Exposure limits are provided for information only. These chemicals are not in a respirable form in this product.

#### Engineering Controls

Local Ventilation: Recommended.

General Ventilation: Recommended.

#### Personal Protective Equipment for Routine Handling

Eyes: Use proper protection - safety glasses as a minimum.

Skin: Wash at mealtime and end of shift. Contaminated clothing and shoes should be removed as soon as practical and thoroughly cleaned before reuse. Chemical protective gloves are recommended.

Suitable Gloves: Avoid skin contact by implementing good industrial hygiene practices and procedures. Select and use gloves and/or protective clothing to further minimize the potential for skin contact. Consult with your glove and/or personnel protective equipment manufacturer for selection of appropriate compatible materials.

Inhalation: Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines. IH personnel can assist in judging the adequacy of existing engineering controls.

Suitable Respirator: Respiratory protection is not needed under ambient conditions. If vapor is generated when material is heated or handled, the following is advised. General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators.

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### Personal Protective Equipment for Spills

Eyes:	Use full face respirator.
Skin:	Wash at mealtime and end of shift. Contaminated clothing and shoes should be removed as soon as practical and thoroughly cleaned before reuse. Chemical protective gloves are recommended.
Inhalation/Suitable Respirator:	Respiratory protection recommended. Follow OSHA Respirator Regulations (29 CFR 1910.134) and use NIOSH/MHSA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.
Precautionary Measures:	Avoid eye contact. Avoid skin contact. Avoid breathing vapor. Keep container closed. Do not take internally. Use reasonable care.

Note: These precautions are for room temperature handling. Use at elevated temperature or aerosol/spray applications may require added precautions.

## 9. PHYSICAL & CHEMICAL PROPERTIES

Physical Form: Paste  
Color: N/A  
Odor: Mild  
Specific Gravity @ 25°C: ~1.3 – 1.7  
Viscosity: Not determined.  
Freezing/Melting Point: Not determined.  
Boiling Point: Not determined.  
Vapor Pressure @ 25°C: Not determined.  
Vapor Density: Not determined.  
Solubility in Water: Slightly soluble  
pH: Not determined.  
Flash Point: > 212F/100C (Closed Cup)  
Autoignition Temperature: Not determined.  
Flammability Limits in Air: Not determined.  
**VOLATILE ORGANIC COMPOUNDS (VOC):** Product complies with State and Federal regulations for VOC content.

Note: The above information is not intended for use in preparing product specifications.

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### 10. STABILITY AND REACTIVITY

- Chemical Stability: Stable.
- Hazardous Polymerization: Hazardous polymerization will not occur.
- Conditions to Avoid: Avoid temperatures above 120 °F.
- Materials to Avoid: Acidic and oxidizing material can cause a reaction.

#### Hazardous Decomposition Products

Thermal breakdown of this product during fire or very high heat conditions may evolve the following decomposition products: Carbon oxides and traces of incompletely burned carbon compounds. Formaldehyde. Metal oxides. Nitrogen oxides.

### 11. TOXICOLOGICAL INFORMATION

#### Component Toxicology Information

##### For Product

Not Established

##### For Titanium Dioxide

*Trochimowicz, et al.c J. Appl. Tox., 8, 383-385 (1988)*

Oral LD (rat) >25g/kg  
Dermal LD (rabbit) >10 g/kg  
Inhalation LC (rat) >6.82 mg/l (4 hr)

#### Special Hazard Information on Components

None



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### 12. ECOLOGICAL CONSIDERATIONS

#### Environmental Fate and Distribution

Complete information is not yet available.

#### Environmental Effects

Complete information is not yet available.

#### Fate and Effects in Waste Water Treatment Plants

Complete information is not yet available.

#### Ecotoxicity Classification Criteria

Hazard Parameters (LC50 or EC50)	High	Medium	Low
Acute Aquatic Toxicity (mg/L)	<=1	>1 and <=100	>100
Acute Terrestrial Toxicity	<=100	>100 and <=2000	>2000

This table is adapted from "Environmental Toxicology and Risk Assessment", ASTM STP 1179, p.34, 1993.

This table can be used to classify the ecotoxicity of this product when ecotoxicity data is listed above. Please read the other information presented in the section concerning the overall ecological safety of this material.

### 13. DISPOSAL CONSIDERATIONS

#### RCRA Hazard Class (40 CFR 261)

When a decision is made to discard this material, as received, is it classified as a hazardous waste? No

State or local laws may impose additional regulatory requirements regarding disposal.

### 14. TRANSPORT INFORMATION

#### DOT Road Shipment Information (49 CFR 172.101)

Not subject to DOT.

#### Ocean Shipment (IMDG)

Not subject to IMDG code.

#### Air Shipment (IATA)

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Not subject to IATA regulations.

### 15. REGULATORY INFORMATION

Contents of this MSDS comply with the OSHA Hazard Communication Standard 29 CFR 1910.1200.

This material is considered hazardous.

TSCA Status: All chemical substances in this material are included on or exempted from listing on the TSCA Inventory of Chemical Substances.

#### EPA SARA Title III Chemical Listings

##### **Section 302 Extremely Hazardous Substances (40 CFR 355):**

None.

##### **Section 304 CERCLA Hazardous Substances (40 CFR 302):**

None.

##### **Section 311/312 Hazard Class (40 CFR 370):**

Acute: Yes  
Chronic: No  
Fire: No  
Pressure: No  
Reactive: No

##### **Section 313 Toxic Chemicals (40 CFR 372):**

None present or none present in regulated quantities.

Note: Chemicals are listed under the 313 Toxic Chemicals section only if they meet or exceed a reporting threshold.

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### Work Place Hazardous Material Information Sysystems (CRP Section 33)

This product has been classified according to the hazard criteria of the Controlled Products Regulation and the MSDS contains all required information.

3 Controlled Product: Classification: D2B

### Supplemental State Compliance Information

#### **California**

To the best of our knowledge, this product contains no levels of chemicals listed by the State of California under the Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65) as being known to cause cancer, birth defects or other reproductive harm.

#### **Massachusetts**

<u>CAS Number</u>	<u>Wt %</u>	<u>Component Name</u>
13463-67-7	<10%	Titanium Dioxide

#### **Minnesota**

<u>CAS Number</u>	<u>Wt %</u>	<u>Component Name</u>
13463-67-7	<10%	Titanium Dioxide

#### **New Jersey**

<u>CAS Number</u>	<u>Wt %</u>	<u>Component Name</u>
13463-67-7	<10%	Titanium Dioxide (SN 1861)

#### **Pennsylvania**

<u>CAS Number</u>	<u>Wt %</u>	<u>Component Name</u>
13463-67-7	<10%	Titanium Dioxide

#### **Rhode Island**

<u>CAS Number</u>	<u>Wt %</u>	<u>Component Name</u>
13463-67-7	<10%	Titanium Dioxide

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**XTRABOND 9500 MODIFIED POLYURETHANE SEALANT WHITE**

WHMIS Classification.....D2

**NOTE: THE PRODUCT LISTED ON THIS MSDS HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE HAZARD CRITERIA OF THE CANADIAN CONTROLLED PRODUCTS REGULATIONS. THIS MSDS CONTAINS ALL INFORMATION REQUIRED BY THOSE REGULATIONS.**

**16. OTHER INFORMATION**

Note: The responsibility to provide a safe workplace remains with the user. The user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment. The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by the use of this material. It is the responsibility of the user to comply with all applicable laws and regulations.

<http://www.xtrabond.com>