

SECTION 1 Product and Company Information

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|---|---|
| PRODUCT NAME: Polycore Panels | Chemtrec |
| GENERIC NAME: 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>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.</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 | | | | | | | | | | |
| Not Listed by IARC | Teratogenic Effects: No evidence of | | | | | | | | | | |
| Not Listed by OSHA | mutagenetic effects | | | | | | | | | | |
| GHS LABEL ELEMENTS, INCLUDING PRECAUTIONARY STATEMENTS | | | | | | | | | | | |
| <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

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| 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, 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, 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

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| 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

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| 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

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

The information contained herein is based 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

Material Safety Data Sheet

May be used to comply with
 OSHA's Hazard Communication Standard
 29 CFR 1910.1200 Standard must be
 consulted for specific requirements

U.S. Department of Labor
 Occupational Safety and Health Administration
 (Non-Mandatory Form)
 Form Approved
 OMB No. 1218-0072

| | |
|--|--|
| IDENTITY (As Used on Label and List) <p style="text-align:center">Kal-Lite</p> | Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that |
|--|--|

| | |
|---|---|
| Section I | |
| Manufacturer's Name Kal-Lite Sales Division | Emergency Telephone Number (603) 627-3861 |
| Address (Number, Street, City, State and ZIP Code) 1111 Candia Road | Telephone Number for Information (603) 627-3861 |
| P.O. Box 237 | Date Prepared 12-2013 |
| Manchester, N.H. 03105 | Signature of Preparer (Optional) MC |

| | | | | |
|--|----------|-----------|--------------------------|--------------|
| Section II – Hazardous Ingredients/ Identity Information | | | | |
| Hazardous Components (Specific Chemical Identity: Common Names(s)) | OSHA PEL | ACGIH TLV | Other Limits Recommended | % (optional) |

Kal-Lite (F.R.P.) panels are solid sheets composed of glass, calcium carbonate, titanium dioxide, alumina and pigment embedded in a cured polymerized, styrenated/ acrylated polyester.

* Not listed in NTP, LARC, OSHA

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| Section III – Physical Characteristics | |
| Boiling Point <p style="text-align:center">N/A</p> | Specific Gravity (H2O = 1) <p style="text-align:center">446-1.8</p> |
| Vapor Pressure (mm Hg.) <p style="text-align:center">N/A</p> | Melting Point <p style="text-align:center">N/A</p> |
| Vapor Density (AIR =1) <p style="text-align:center">N/A</p> | Evaporation Rate (Butyl Acetate = 1) <p style="text-align:center">N/A</p> |
| Solubility in Water <p style="text-align:center">Insoluble</p> | |
| Appearance and Odor <p style="text-align:center">Rigid Sheet, No Odor</p> | |

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| Section IV – Fire and Explosion Hazard Data | | | |
| Flash Point (Method Used) Ignition temperature higher than paper, 451 F | Flammable Limits <p style="text-align:center">N/A</p> | LEL <p style="text-align:center">N/A</p> | UEL <p style="text-align:center">N/A</p> |
| Extinguishing Media Water, CO 2, Dry Chemical | Special Fire Fighting Procedure Use media belt suited for fire environment. Use self-contained breathing apparatus for large scale fire | | |
| Unusual Fire and Explosion Hazard Combustion may yield CO, CO2, aliphatic and aromatic hydrocarbons and halogenated compounds. | Tests show combustion gases to be less toxic than those from wood. | | |

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

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|-------------------|----------------------|-----------|----------------|
| Route(s) of Entry | Inhalation? X | Skin? N/A | Ingestion? N/A |
|-------------------|----------------------|-----------|----------------|

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.

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|-----------------|----------|-----------------------|---------------------|
| Carcinogenicity | NTP? N/A | IARC Monographs ? N/A | OSHA Regulated? N/A |
|-----------------|----------|-----------------------|---------------------|

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 When fabricating, ect... | Eye Protection When fabricating, tooling, cutting, ect... |
|--|---|

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.