SECTION 1: IDENTIFICATION

(a) Product Identifier: ALPOLIC®/fr Zinc
(b) Other means of Identification: None
(c) Recommended Use: Composite Building Material
(d) Manufacturer/Importer/Distributor: Mitsubishi Chemical Composites America, Inc.
401 Volvo Parkway, Chesapeake, VA 23320
757-382-5750
(e) Emergency Phone Number: Chemtrec 1-800-424-9300

SECTION 2: HAZARD(S) IDENTIFICATION

(a) Chemical Classification Not classified as hazardous according to OSHA Hazard Communication Standard, 29 CFR 1910.1200.
(b) Signal Word: Not applicable
   Hazard Statement(s): Not applicable
   Symbol(s): Not applicable
   Precautionary Statement(s): Not applicable
(c) Hazards Not Otherwise Classified None Known
(d) Supplemental Information None

NOTE: This product is an “article” according to 29 CFR 1910.1200.
“Article means a manufactured item other than a fluid or particle, which is formed to a specific shape or design during manufacture which has end use function dependent in whole or in part upon its shape or design during end use, and which under normal conditions does not release more than very small quantities or trace amounts of a hazardous chemical, and does not pose a physical hazard or health risk to employees.”

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS Number</th>
<th>Percent*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Zinc</td>
<td>7440-66-6</td>
<td>67%</td>
</tr>
<tr>
<td>Aluminum Hydroxide</td>
<td>21645-51-2</td>
<td>22%</td>
</tr>
<tr>
<td>Polyethylene</td>
<td>9002-88-4</td>
<td>10%</td>
</tr>
<tr>
<td>Fluoropolymer Coating</td>
<td>Trade Secret</td>
<td>1%</td>
</tr>
</tbody>
</table>

*Concentration of ingredients varies depending upon the thickness of the material.

SECTION 4: FIRST-AID MEASURES

(a) Eye contact Dust from processing. Rinse eyes with water or saline for at least 15 minutes. Consult a physician.
Skin Contact: Dust from processing. Wash with soap and water for at least 15 minutes. Get medical attention if irritation develops or persists.

Inhalation: Dust from processing. Move to fresh air. Consult a physician.

Ingestion: Not likely due to form of product.

(b) Most important Symptoms/Effects: Dust and fumes from processing can be irritating to eyes, respiratory system, and skin. Heating above melting point may cause metal fume fever by inhalation.

(c) Medical conditions aggravated by exposure: Asthma, Chronic lung disease. Accumulation of dust in the respiratory system may cause moderate congestion.

(d) Indication if immediate medical attention and special treatment: No data available.

SECTION 5: FIRE-FIGHTING MEASURES

(a) Suitable extinguishing media: Use Class D extinguishing agents on fines or molten metal.

Unsuitable extinguishing media: Do not use halogenated extinguishing agents on small chips/fine dusts.

Do not use water in fighting fires around molten metal.

(b) Specific hazards: Combustion products include carbon monoxide, carbon dioxide, nitrogen oxide, and smoke. Under certain conditions some aliphatic aldehydes and carboxylic acids may form.

(c) Special PPE and precautions for fire fighters: Fire fighters should wear NIOSH approved, positive pressure, self-contained breathing apparatus and full protective clothing when appropriate.

SECTION 6: ACCIDENTAL RELEASE MEASURES

(a) Personal precautions, PPE, and emergency procedures: Avoid contact with sharp edges or heated metal. Use PPE recommended in Section 8.

(b) Methods and materials for containment and cleaning up: Should a release of dust occur, contain by blocking routes to surface water and grassy areas. Clean up by sweeping and depositing in a closed container.

SECTION 7: HANDLING AND STORAGE

(a) Precautions for safe handling: Avoid generating dust. Avoid contact with sharp edges or heated metal.

(b) Conditions for safe storage: No special storage precautions noted.

SECTION 8: EXPOSURE CONTROLS/ PERSONAL PROTECTION

(a) Occupational Exposure Limits

<table>
<thead>
<tr>
<th>Component</th>
<th>OSHA Permissible Exposure Limits (PEL)</th>
<th>ACGIH TLV</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Total</td>
<td>Respirable</td>
</tr>
<tr>
<td>Polyethylene</td>
<td>10 mg/m3</td>
<td>5 mg/m3</td>
</tr>
</tbody>
</table>
(b) Appropriate Engineering Controls

If dust is generated through processing, use with adequate ventilation designed to handle particulates to meet the occupational exposure limits listed in Section 8(a).

(c) Individual protective measures, PPE

Eye/Face Protection

Safety glasses with full side shields or goggles recommended.

Skin Protection

Avoid contact with sharp edges. Cut resistant gloves recommended.

Respiratory Protection

Dust from processing. Use NIOSH approved respiratory protection if concentrations exceed the limits listed in Section 8(a).

Thermal Hazards

When material is heated, wear gloves to protect against thermal burns.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

(a) Appearance

Solid panel, Metallic

(b) Odor

Odorless

(c) Odor Threshold

Not applicable

(d) pH

Not applicable

(e) Melting Point/Freezing Point

788 °F Zinc / 219-239 °F Polyethylene

(f) Initial Boiling Point and Boiling Range

1662.8 °F Zinc

(g) Flash Point

811 °F

(h) Evaporation Rate

Not applicable

(i) Flammability (solid, gas)

Not applicable

(j) Upper/Lower Flammability

Not applicable

Explosive Limits

Dust clouds may be explosive under certain conditions

(k) Vapor Pressure

Not applicable

(l) Vapor Density

Not applicable

(m) Density (specific gravity)

3.14

(n) Solubility

Insoluble

(o) Partition Coefficient

Not applicable

(p) Auto Ignition Temperature

837 °F

(q) Decomposition Temperature

Not determined

(r) Viscosity

Not applicable

SECTION 10: STABILITY AND REACTIVITY

(a) Reactivity

The product is stable and non-reactive under normal conditions of use, storage, and transport.

(b) Chemical Stability

Stable under normal conditions of use, storage, and transport.

(c) Possibility of hazardous reactions

Hazardous polymerizations does not occur.

(d) Conditions to avoid

None.
(e) Incompatible materials  Not applicable.
(f) Hazardous decomposition products  Carbon monoxide, carbon dioxide, nitrogen oxide, and smoke. Under certain conditions some aliphatic aldehydes and carboxylic acids may form.

SECTION 11: TOXICOLOGICAL INFORMATION
(a) Acute toxicity  Not classified.
(b) Skin corrosion/irritation  Not corrosive.
(c) Serious eye damage/irritation  Dust from processing may cause eye irritation.
(d) Respiratory or skin sensitization  Dust and fumes from processing may cause respiratory irritation. Not a skin sensitizer.
(e) Germ cell mutagenicity  Not classified.
(f) Carcinogenicity  Not classified.
(g) Reproductive toxicity  Not classified.
(h) STOT-single exposure  Not classified.
(i) STOT-repeated exposure  Not classified.
(j) Aspiration hazard  Not an aspiration hazard.
(k) Chronic effects  Dust and fumes from processing may cause scarring of the lungs, central nervous system damage.

SECTION 12: ECOLOGICAL INFORMATION
(a) Ecotoxicity  No toxic effects to ecosystems.
(b) Persistence and degradability  No information available.
(c) Bioaccumulative potential  No information available.
(d) Mobility in soil  No information available.
(e) Other adverse effects  None known

SECTION 13: DISPOSAL CONSIDERATIONS
Disposal Instructions  Reuse or recycle material whenever possible. If reuse or recycling is not possible, dispose in accordance with federal, state, and/or local regulations.

SECTION 14: TRANSPORT INFORMATION
(a) UN Number  Not applicable
(b) UN proper shipping name  Not Regulated
(c) Transport Hazard Class(es)  Not Applicable
(d) Packing Group  Not Applicable
(e) Environmental Hazards  Not Applicable
(f) Transport in Bulk  Not Applicable
(g) Special Precautions  Not Applicable
SECTION 15: REGULATORY INFORMATION

OSHA: This product is not classified as hazardous under the criteria set forth by 29 CFR 1910.1200, Hazard Communication.

Federal and State Regulations: There is no classification data available on carcinogenic properties of this material from EPA, IARC, NTP, OSHA, or ACGIH.

California Proposition 65: WARNING – This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

Components of this product are subject to the following regulatory requirements and/or appear on the following associated chemical inventory list(s): Toxic Substance Control Act (TSCA), European Inventory of Existing Commercial Substances (EINECS), Australian Inventory of Chemical Substances (AICS), Domestic Substances List (DSL), Korea Existing Chemicals List (KECL), Phillipines Chemical Inventory (PICCS).

SECTION 16: OTHER INFORMATION

SDS #: ALP07
Issue Date: 11/29/12
Revision Date: 9/20/18
Revision #: 4

Disclaimer: The information presented in this Safety Data Sheet is based on data believed to be accurate as of the date this Safety Data Sheet was prepared. The information above is provided on the condition that parties receiving the product make their own determination as to the suitability of the product for their particular purpose and assume the risk of use of the product. NO WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR ANY OTHER WARRANTY IS EXPRESSED OR IS TO BE IMPLIED REGARDING THE ACCURACY OR COMPLETENESS OF THE INFORMATION PROVIDED ABOVE, THE RESULTS TO BE OBTAINED FROM THE USE OF THIS INFORMATION OR THE PRODUCT, THE SAFETY OF THIS PRODUCT, OR THE HAZARDS RELATED TO ITS USE.

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<<<< END OF SDS>>>>

Product Name: ALPOLIC®/fr Zinc
SDS #: ALP07  Revision #: 4  Revision Date: 9/20/18  Issue Date: 11/29/12