

SECTION 1: IDENTIFICATION

- (a) Product Identifier: **Graphic-AL™ HP/LT**
- (b) Other means of Identification: None
- (c) Recommended Use: Interior and Exterior Signage Display
- (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

Components	CAS Number	Percent
Polyethylene	9002-88-4	50-70%
Aluminum	7429-90-5	30-50%
Polyester Coating	Trade Secret	1%

***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 Unsuitable extinguishing media	Use Class D extinguishing agents on fines or molten metal. 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

Component	OSHA Permissible Exposure Limits (PEL)		ACGIH (TLV)
	Total	Respirable	Respirable Fraction
Polyethylene	10 mg/m ³	5 mg/m ³	N/A

Aluminum	15 mg/m3	5 mg/m3	1 mg/m3
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- (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 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 occupational exposure 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, Various Colors
- (b) Odor Odorless
- (c) Odor Threshold Not applicable
- (d) pH Not applicable
- (e) Melting Point/Freezing Point 1149-1220 °F Aluminum/ 219-239 °F Polyethylene
- (f) Initial Boiling Point and Boiling Range Not determined
- (g) Flash Point 716 °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) Not determined
- (n) Solubility Insoluble
- (o) Partition Coefficient Not applicable
- (p) Auto Ignition Temperature 752 °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 polymerization 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.
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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

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.

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 #: ALP09

Issue Date: 11/29/12

Revision Date: 3/21/17

Revision #: 3

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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