

## MATERIAL SAFETY DATA SHEET

**AlumaClad non Ferrous Coating**  
**Parts A, B and C Combined**  
**Revised March 4, 2007**  
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<b>SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION</b>			
<b>Material Identification:</b> AlumaClad (Parts A, B, & Combined)			
Silicon Derivatives 1410 Suite B1 Market Street Tallahassee, FL 32312	904 392 8000 Phone 850 385 8696		
<b>SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS</b>			
CAS Number	Wt%	Components	Exposure Limits
001569-01-3	<25%	Propylene glycol n-propyl ether	None Established
67-63-0	<11%	Dimethylcarbinol	TWA 400 ppm PEL 400ppm
Proprietary - Mixture	<30%	Alkoxysilanes	TWA 50 ppm, PEL 10 ppm
Proprietary Mixture	<5%	Non ionic Surfactants	None Established
NFPA/HMIS Code: Health 0, Flammability 3, Reactivity 0			
<b>Section 3: PHYSICAL DATA FOR MATERIAL</b>			
<p><b>pH:</b> 6.5</p> <p><b>Solubility in water:</b> Highly Soluble</p> <p><b>Appearance:</b> Colorless clear liquid</p> <p><b>Odor:</b> mild odor of alcohol or ether</p> <p><b>Specific Gravity @ 25C:</b> Approximately .85</p> <p><b>Boiling Point:</b> Miscible blend approximately 80°C</p> <p><b>VOC Content:</b> 7.38 lbs./gal, 885 g/liter (as a mixture of all components)</p>			
<b>SECTION 4: FIRE AND EXPLOSION HAZARD OF MATERIAL</b>			
<p><b>FLASH POINT:</b> 46.9 degrees F./8.3 degrees C.</p> <p><b>FIRE HAZARDS:</b> Static electricity may accumulate and ignite vapors. Prevent a possible fire hazard by suitable means, such as bonding, grounding, inert gas purge, vapor dilution and the like. Vapors are heavier than air and can travel along the ground to remote ignition sources.</p> <p><b>UNUSUAL FIRE HAZARDS:</b> Thermal breakdown of this product during fire or very high heat conditions may evolve the following hazardous decomposition products: Silicon Dioxide, Carbon Dioxide and traces of incompletely burned carbon compounds, Formaldehyde.</p> <p><b>EXTINGUISHING MEDIA:</b> Carbon Dioxide (CO<sub>2</sub>), Water Fog, Dry Chemical.</p> <p><b>UNSUITABLE EXTINGUISHING MEDIA:</b> Water. (closed containers may be cooled)</p> <p><b>FIRE FIGHTING PROCEDURES:</b> Self-contained breathing apparatus and protective clothing should be worn in fighting fires involving chemicals. Heat exposure pressurizes closed containers. Evacuate the area in cases of overheating or fire.</p>			
<b>SECTION 5: HEALTH AND HAZARD DATA</b>			
<p><b>EYE CONTACT:</b> Causes eye irritation.</p> <p><b>SKIN CONTACT:</b> Causes skin irritation.</p> <p><b>INHALATION:</b> Inhalation of alcohol vapors may cause irritation with coughing and discomfort.</p> <p><b>INGESTION:</b> Product contains small amounts of methyl alcohol and isopropyl alcohol, which may cause nausea, vomiting, abdominal pain, flushing of the face, hypotension, weakness and loss of consciousness if large amount of product is swallowed.</p>			

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### SECTION 5: HEALTH AND HAZARD DATA (cont.)

**SIGNS AND SYMPTOMS OF EXPOSURE:** Burning pain in the nose and throat (inhalation), pain, redness and tearing (eye exposure), itching or burning (skin exposure).

#### **SPECIAL HAZARDS:**

Carcinogens – none known

Teratogens – none known

Mutagens – none known

Reproductive Toxins – none known

Sensitizers – When heated to temperatures above 150 degrees C., in the presence of air and after the water has boiled off, product can form formaldehyde vapors (formaldehyde is a potential cancer hazard; a known skin and respiratory sensitizer and an irritant to the eyes, nose, throat, skin and digestive system).

### SECTION 6: FIRST AID MEASURES

**EYES:** Immediately flush with water for 15 minutes.

**SKIN:** No first aid should be needed. Wash with soap and water.

**INHALATION:** Remove to fresh air. Get medical attention if ill effects persist.

**ORAL:** Get medical attention. If conscious, induce vomiting. Lie down, keep warm and cover eyes to exclude light.

**COMMENTS:** Treat same as methyl alcohol poisoning.

### SECTION 7: REACTIVITY DATA

**STABILITY:** Stable under ordinary conditions of use and storage. Heat and sunlight can contribute to instability.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Carbon dioxide and carbon monoxide may form when heated to decomposition.

**HAZARDOUS POLYMERIZATION:** Will not occur.

**INCOMPATIBILITIES:** Heat, flame, strong oxidizers, acetaldehyde, acids, chlorine, ethylene oxide, hydrogen-palladium combination, hydrogen peroxide-sulfuric acid combination, potassium tert-butoxide, hypochlorous acid, isocyanates, nitroform, phosgene, aluminum, oleum and perchloric acid.

**CONDITIONS TO AVOID:** Heat, flames, ignition sources and incompatibles.

### SECTION 8: LEAK OR SPILL INFORMATION

#### **CONTAINMENT/CLEAN UP:**

Disposal of collected product, residues and clean up materials may be governmentally regulated. Observe all applicable local, state and federal waste management regulations. Remove possible ignition sources and if needed, use non-sparking tools and equipment. Mop, wipe or soak up with absorbent material and contain for salvage or disposal. For large spills, provide diking or other appropriate containment to keep material from spreading. Clean any remaining slippery surfaces by appropriate techniques, such as washing with mild, caustic detergents or solutions; or high-pressure steam for large areas. Observe any safety precautions applicable to the cleaning material used.

### SECTION 9: SPECIAL PROTECTION INFORMATION

**RESPIRATORY PROTECTION:** Respiratory protection is not required provided adequate local exhaust ventilation is provided per recommended exposure guidelines. Avoid enclosed spaces for mixing or applying. When needed, use respiratory protection NIOSH – ½ face, black cartridge, minimum.

**GLOVES:** Washing at mealtime and end of shift, no special protection is needed. Rubber or

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latex gloves are adequate for preventing skin irritation.

**EYE PROTECTION:** Safety glasses at a minimum.

**PROTECTIVE EQUIPMENT:** Eye-wash station (bottle) should be within direct access of work area.

**PERSONAL HYGIENE:** Do not get in eyes, on skin or on clothing. Wash thoroughly after handling. Wash contaminated clothing before reuse

### **SECTION 10: TRANSPORT INFORMATION**

**DOT Information:** (49 CFR 172.101)

**Proper Shipping Name:** FLAMMABLE LIQUID, n.o.s.

**Hazard Technical Name:** METHOXYSILANE/METHANOL

**Hazard Class:** 3

**UN Number:** UN1219

**Packing Group:** II

### **SECTION 11: HANDLING AND STORAGE**

**Handling:** No special precautions

**Storage:** Keep container closed and stored away from heat, sparks and open flame. Keep container closed and store away from water or moisture.

### **SECTION 12: REGULATORY INFORMATION**

EPA SARA Title III Chemical Listings:

**Section 304 CERCLA Extremely Hazardous Substance:** None

**Section 304 CERCLA Hazardous Substances:**

**Section 312 Hazard Class –**

Acute: Yes

Chronic: Yes

Fire: Yes

Pressure: No

Reactivity: No

**Section 313 Toxic Chemicals:**

None

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