

<b>Material Safety Data Sheet</b>
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### Section 1 – Product and Manufacturer

<b>Material Name:</b> LCOA EO+	<b>Emergency Contact:</b> Sean Redfern Jim Miller
Laminating Company of America 20322 Windrow Drive Lake Forest, CA 92630	<b>Emergency Phone:</b> 8:00 a.m. to 5:00 p.m. Pacific Time (949) 587-3300
<b>Chemical Family:</b> Aluminum foil laminated to a paper core with an epoxy resins.	Other times call: (949) 241-4672 (949) 254-1107

### Section 2 – Composition Information

The exact composition of this product is proprietary. Precise information for emergencies may be obtained by calling the individuals listed in Section 1 or by contacting the Health and Safety Department of Laminating Company of America.

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### Section 3 – Hazards Identification

This product presents no hazards in its normal state. It is a paper product with aluminum foil laminated to both surfaces using an epoxy resin. Dust from sawing or drilling the product should be collected under vacuum. High concentrations of aluminum and cellulose dust are explosive. If high concentrations of dust are present, use suitable NOISH approved dust masks to prevent inhalation of the dust. Equipment should be explosion proof and grounded to prevent fire and explosion. Use caution when handling stacks of material to prevent finger from being crushed. Gloves should be worn when handling the material to prevent cuts. NOISH approved safety glasses are required when cutting or drilling this material. Note that the hazards referred to below deal only with the dust of this material.

**Probable routes for exposure:** Skin contact and inhalation (breathing the dust)

**Target Organs:** Eyes, Lungs, Skin

**Eyes** – Particles may cause irritation of the eyes or scratching of the cornea if dust is allowed to contact the eye.

**Lungs** – Repeated exposure to certain dust can produce allergenic responses in some sensitive individuals.

**Skin** – A single, prolonged exposure is not likely to result in the material being absorbed through the skin, however, some individuals are sensitive to dusts and may have an allergenic reaction to them.

### **Section 4 – First Aid**

**Eyes:** Wash the eye with clean water or normal saline solution. Do not rub the eye or attempt to dislodge particles from the eye. Have the eye treated by a trained professional.

**Lungs:** Remove the person to fresh air. If breathing has stopped, apply artificial respiration and get medical help.

**Skin:** Remove dust from the skin with water. Do not attempt to blow the dust off with compressed air.

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### **Section 5 – Fire Fighting Measures**

**Flammable Properties:** The flammable limits of paper dust vary with the type of paper, fiber size, level of moisture in the paper, and time and rate of heating.

**Fire Extinguishing Media:** Do not use water or halogen on fires that contain aluminum dust cloud. Use dry powder or sand. Remove burned dust to an open area after the fire is out. Minimum protection for fire fighters includes a self-contained breathing apparatus (SCBA) and full fire fighting turn out gear (Bunker Gear).

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### **Section 6 – Accidental Release Measures**

**Spills:** If the material is spilled sweep or vacuum up for recovery or disposal. Avoid generating dust when cleaning the spill. Provide good ventilation. Place the dust in a dry container for proper disposal.

**Disposal:** Dispose in accordance with applicable Federal, State and Local regulations.

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### **Section 7 – Handling and Storage**

Good housekeeping practice will minimize the accumulation of dust in storage areas. If a dust cloud is present use explosion proof tools and equipment.

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## **Section 8 – Exposure Control & Personal Protection**

Use exhaust ventilation to keep airborne concentrations of dust below the exposure limits. Where dust is a problem or when cutting or drilling the material, a NIOSH / MSHA approved dust and mist disposable respirator is recommended. Use safety glasses to protect the eyes and gloves to prevent cuts from ragged or sharp edges.

**Ventilation:** Ventilation must meet TLV requirements. Due to the explosive potential of the dust when suspended in air, precautions should be taken to prevent sparks or other ignition sources in the ventilation equipment. Use of totally enclosed motors is recommended.

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## **Section 9 – Physical and Chemical Properties**

**Appearance and odor:** A mixture of aluminum and light colored granular solid. The physical description applies only to the dust generated from this product.

**Specific Gravity (Water = 1):** <1

**Solubility in Water:** Insoluble

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## **Section 10 – Stability and Reactivity**

**Stability:** The dust of this product is stable under most conditions. Hazardous polymerization will not occur.

**Incompatibility (Materials to avoid):** Avoid contact of aluminum containing dust with acids, bases and oxidizing agents. Keep in a cool, dry place away from ignition sources. Damp aluminum dust may spontaneously heat with liberation of hydrogen to form explosive mixtures.

**Hazardous Decomposition Products:** Thermal oxidative degradation of paper product produces irritating, toxic fumes and gasses, including CO<sub>2</sub>, aldehydes and organic acids.

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## **Section 11 – Toxicological Information**

**Carcinogens:** Paper and aluminum dust are listed as a carcinogen by IARC, NTP, ACGIH, and, OSHA.

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## **Section 12 – Ecological information**

Decomposing wood based products, including paper, may generate toxic gases and organic acids.

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### **Section 13 – Disposal Considerations**

Dispose in accordance with State, Local and Federal regulations. State and Local regulations are complex and may differ from Federal regulations. The responsibility for proper waste disposal is with the owner or the generator of the waste.

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### **Section 14 – Transportation Information**

If the material is clean and no dust exists, this section is not applicable. No labeling required.

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### **Section 15 – Regulatory Information**

This product is not listed on the TSCA inventory and is not regulated under any international regulation.

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### **Section 16 – Other Information**

The information and data herein are believed to be accurate and have been compiled from sources believed to be reliable. It is offer for your consideration, investigation and verification. The buyer assumes all risk of use, storage and handling of the product in compliance with applicable international, federal, state and local regulations. LCOA makes no warranty of any kind, express or implied, concerning the accuracy or completeness of the information and data herein. The implied warranties of merchantability and fitness for a particular purpose are specifically excluded. LCOA will not be liable for claims relating to any party's use of or reliance on information and data contained herein regardless of whether it is claimed that the information and data are inaccurate, incomplete or otherwise misleading.

The form and format of this Material Safety Data Sheet meets the requirements of:

USA – Occupational Safety and Health Administration (OSHA)

CANADA- Workplace Hazardous Materials Information Systems (WHMIS)

Canadian Environmental Protection Act – Domestic Substances List  
(CEPA-DSL) Export Notification

EUROPE - European Inventory of Existing Commercial Chemical Substance (EINECS)

JAPAN- Chemical Substance Control Law (MITI)

AUSTRALIA- National Industrial Chemical Notification and Assessments Act, NICNAS