



## MATERIAL SAFETY DATA SHEET

### Section 1: PRODUCT AND COMPANY IDENTIFICATION

**Manufacturer:** Greenlam America INC,

**Product Name:** Greenlam Laminates

**Issue Date:** December 12th, 2008

**Revision:** 0

### Section 2: EMERGENCY OVERVIEW

No known hazards for material as supplied. During fabrication operations such as sawing, sanding, drilling, routing, cutting etc. dust consisting of cured resin, paper fiber and minute amounts of formaldehyde are generated at the point of operation. Formaldehyde may be released in minute, but detectable, amounts when material is shipped or stored in bulk quantities.

**Appearance/Odor:** Thin to thick, rigid laminate sheets, various thicknesses/colors. No significant odor.

#### **WARNING:**

Sanding, sawing, drilling, routing, etc. of this material may generate airborne nuisance dust. This dust may cause eye, nose, skin, and upper respiratory tract irritation. Use of appropriate personal protection and/or engineering controls (such as local exhaust ventilation) should be employed whenever sanding, sawing, drilling, routing, etc. of this material.

**Potential Health Effects:** Dust generated during fabrication of this material may cause irritation of the eyes, nose skin and upper respiratory tract. Asthmatic conditions may be aggravated by the dust generated.

**Likely Routes of Exposure:** Eye contact, skin contact and inhalation

**Eyes:** Dust generated during installation or fabricating could cause eye irritation (tears, blurred vision and redness). In case of eye contact with dusts, rinse affected eye for at least 15 minutes with clean water. If irritation persists, seek medical attention.

**Skin:** The dust generated during installation or fabrication may cause moderate skin irritation. Avoid prolonged skin exposure to dust. Rinse with mild soap if contact occurs. If irritation persists, seek medical attention.

**Ingestion:** Not likely to occur and not expected to cause a significant toxic response. However ingestion of dust could cause irritation of the mouth, throat and stomach. Rinse mouth with clean water in case of ingestion. If irritation persists, seek medical attention.

**Inhalation:** Sanding, sawing, drilling, routing or cutting of this material may generate airborne dust that may cause eye, nose and upper respiratory tract irritation. Use appropriate personal protection.

### Section 3: COMPOSITION / INFORMATION ON HAZARDOUS INGREDIENTS

This product does not contain regulated levels of NTP, IARC, or OSHA listed carcinogens

Component	CAS #	% by Wt.
Paper/Fiber	NA	40-70

Resins	NA	30-50
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#### **Section 4: FIRST AID AND MEASURES**

**Eye Contact:** If dust gets into the eyes, immediately rinse affected eye for at least 15 minutes with clean water. If irritation persists, seek medical attention.

**Skin Contact:** If excess dust gets into the skin, remove contaminated clothing and wash before reuse. Wash skin with soap and water. Seek medical attention if irritation occurs.

**Ingestion:** If dust gets into mouth, rinse with clean water. Seek medical attention if necessary.

**Inhalation:** If excess dust is inhaled, move to fresh air. Seek medical attention if symptoms such as wheezing and/or shortness of breath occur.

#### **Section 5: FIRE FIGHTING MEASURES**

This material is a Class A combustible material. Use water spray, carbon dioxide or dry chemical foam to extinguish flames. Use water to keep cool and prevent rekindling of material.

Unusual Fire or Sanding, sawing, drilling, routing, cutting, etc. of this material may generate a Class ST-1 dust.

**Explosion Hazards:** Safety precautions and proper ventilation as recommended by NFPA-68 for Class ST-1 dusts should be followed to prevent this or any Class ST-1 dust from presenting an explosion hazard.

**Suitable Extinguishing Media:** CO<sub>2</sub>, water, foam.

**Possible Products of Combustion:** Various oxides of carbon and nitrogen, ammonia and formaldehyde. Protection of Combustion products may be irritating to eyes, skin and the respiratory tract.

**Firefighters:** Firefighters should wear self-contained breathing apparatus and full fire-fighting turnout gear.

#### **Section 6: ACCIDENTAL RELEASE MEASURES**

**Personal Precautions:** Material is non-hazardous as supplied. Review personal protection measures in Section 8.

**Methods for Clean-up:** Recover undamaged materials for reuse or reclamation. Sweep or pick up scrap material and place in disposal containers.

#### **Section 7: HANDLING AND STORAGE**

**Handling:** Prevent dust from entering eyes. Do not breathe dust. Avoid prolonged skin contact with dust and/or filings. Cut, drill, saw, sand and finish, etc. in well-ventilated areas.

**Storage:** Store in dry, well-ventilated area and keep away from strong chemicals, solvents and excessive heat. Prolonged or extreme heat can cause damage to the surface. Traces of formaldehyde may be released during shipping and storage.

#### **Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

Exposure Guidelines:	OSHA PEL	Exposure Guidelines:	ACGIH TLV
Total Dust	15 mg/ cubic meter	Inhalable	10 mg/ cubic meter
Respirable Dust	5 mg/ cubic meter	Respirable	3 mg/ cubic meter

**Engineering Controls:** Provide adequate ventilation to maintain exposure levels below applicable limits. The use of local exhaust ventilation is recommended during fabrication work.

**Eyeface Protection:** Wear safety glasses when sawing, sanding, drilling or routing.

**Skin Protection:** Wear appropriate gloves when installing, transporting, sawing, cutting, drilling, routing or handling uninstalled pieces.

**Foot Protection:** No special protection required.

**Respiratory Protection:** Where airborne concentrations of dust are expected to exceed the allowable exposures NIOSH-approved respirator should be worn, chosen based on the form and concentration of the contaminant. Respirator usage must be in accordance with the OSHA Respiratory Protection Standard, 29 CFR 1910.134.

**General Hygiene:** Wash thoroughly after sawing, cutting, drilling, or routing. Have eyewash facilities

**Considerations:** Immediately available.

Additional information is available in ASTM E1132-99a

## **Section 9: PHYSICAL AND CHEMICAL PROPERTIES**

<b>Odor:</b> None	<b>Lower Flammability Limit:</b> Not applicable
<b>Physical State:</b> Solid sheet	<b>Vapor Pressure:</b> Not applicable
<b>pH:</b> Not applicable	<b>Vapor Density:</b> Not applicable
<b>Freezing Point:</b> Not applicable	<b>Specific Gravity:</b> 1.45
<b>Boiling Point:</b> Not applicable	<b>Solubility (water):</b> Insoluble
<b>Flash Point:</b> Not applicable	<b>Auto-ignition Temperature:</b> Not applicable
<b>Evaporation Rate:</b> Not applicable	<b>VOC release:</b> Extremely low.
<b>Upper Flammability Limit:</b> Not applicable	

## **Section 10: STABILITY AND REACTIVITY**

**Stability:** Stable

**Conditions to Avoid:** Avoid exposing to oxidizers, strong chemicals, alkaline solutions and solvents.

**Incompatible Materials:** Avoid strong acids and alkaline solutions which will damage the surface appearance of the material. If spills occur, remove immediately from the material.

**Hazardous Decomposition Products:** Thermal decomposition product may include various oxides of carbon

**Hazardous Polymerization:** Will not occur.

## **Section 11 (a): ACUTE EFFECTS**

**Oral LD50:** Not known

**Dermal LD50:** Not known

**Inhalation:** See Section 2

**Eye Irritation:** See Section 2

**Skin irritation:** See Section 2

**Sensitization:** No data for product

### **Section 11 (b): CHRONIC EFFECTS**

**Carcinogenicity:** This product may contain trace amounts of formaldehyde which is listed by IARC as carcinogenic. The ACGIH lists formaldehyde as a suspect human carcinogen. NTP: formaldehyde as carcinogenic.

WARNING-Substance contained in this product known to the State of California to cause cancer, birth defects or other reproductive harm – formaldehyde.

#### **Mutagenicity:**

**Reproductive Effects:** No data for product.

**Developmental Effects:** No data for product.

### **Section 12: ECOLOGICAL INFORMATION**

**Eco-toxicity:** No data for product

**Persistence/Degradability:** No data for product

**Bio-accumulation / Accumulation:** No data for product

**Mobility in Environment:** No data for product

### **Section 13: DISPOSAL CONSIDERATIONS**

**Disposal:** Material is non-hazardous and no special treatment is required for disposal. Disposal in landfill must be in accordance with Federal, State and Local regulations.

### **Section 14: TRANSPORTATION INFORMATION**

**DOT:** Not Regulated

### **Section 15: REGULATORY INFORMATION**

WARNING-Substance contained in this product known to the State of California to cause cancer, birth defects or other reproductive harm-Formaldehyde.

### **Section 16: OTHER INFORMATION**

**NFPA Labeling:** Health – 1, Fire -0, Reactivity -0  
(0= minimal hazard, 1 =slight hazard, 2=moderate hazard, 3= severe hazard, 4= extreme hazard)

#### **Glossary of terms:**

**ACGIH-**AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS

**ASTM-**AMERICAN SOCIETY FOR TESTING AND MATERIALS

**BOD 5-**BIOLOGICAL OXYGEN DEMAND IN 5 DAYS

**ACC-**CLEAN AIR ACT

**CAS-**CHEMICAL ABSTRACTS SERVICES

**CFR-**CODE OF FEDERAL REGULATIONS

**DOT-**DEPARTMENT OF TRANSPORTATION

**IARC-**INTERNATIONAL AGENCY FOR RESEARCH ON CANCER

**LD50-**LETHAL DOSE 50%

**NFPA-**NATIONAL FIRE PREVENTION ASSOCIATION

**NTP-**NATIONAL TOXICOLOGY PROGRAMME

**OSHA-**OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION

**PEL-**PERMISSIBLE EXPOSURE LIMIT

**TLV-**THRESHOLD LIMIT VALUE

***Disclaimer:*** The information furnished herein is accurate, to the best of our knowledge. However, we assume no liability, what so ever, for the completeness/accuracy of the data contained herein. It is the sole

responsibility of the user to determine the suitability. Certain hazards are described herein but we do not claim that these are the only hazards that exist.