

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Alumatite™
Synonyms: Aluminum Composite Panel
Supplier Information
Company Name: Laminators Incorporated
Address: 3255 Penn Street, Hatfield, PA 19440
Tel: 215-723-8107
Fax: 215-721-4669

2. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Preparation: Preparation

Ingredients Name	Content/%	CAS NO.
Aluminum overlays	20.5-47.8%	7429-90-5
Polymer Composite	42.2-59.2%	-
Adhesive (Epoxy and modified Amine)	12-15%	-

Note: See Section 8 of MSDS for exposure limit data for these ingredients.

The preparation is not classified as dangerous under the Hazard Communication Standard

This MSDS contains valuable information critical to the safe handling and proper use of the product. This MSDS should be retained and available for employees and other users of the product.

3. HAZARDS IDENTIFICATION

Emergency Overview

These panels have little or no odor.

Primary Route(s) of Exposure: Skin contact (dust), Inhalation (dust)

Potential Health Effects

Acute (short term): May cause irritation or scratch the surface of the eye/skin.

Chronic (long term): There is no known health effects connected with long term use or contact with this product. See Section 11 of MSDS for more toxicological data.

Potential Environmental Effects: The material should pose no significant hazard to the environment.

4. FIRST AID MEASURES

Skin contact: Wood dust(s) of certain species can elicit contact dermatitis in sensitized individuals, as well, as mechanical irritation resulting in erythema and hives. Aluminum slivers or shavings may mechanically irritate the skin. Get medical help if rash, irritation, or dermatitis persists.

Eye contact: Wood dust or aluminum shavings (fine) may cause mechanical irritation. Treat dust in eye as foreign object. Flush with water to remove dust particle. Get medical help if irritation persists.

Skin Absorption: Not known to occur under normal use.

Inhalation: Wood dust may cause unpleasant deposit/obstruction in the nasal passages, resulting in dryness of nose, dry cough and headaches. In case of inhale, move to fresh air immediately. Get medical aid if symptoms persist.

Ingestion: Not applicable under normal use. In case of swallow, never give anything by mouth if victim is semi-conscious or unconscious. Immediately wash out mouth with water. Seek IMMEDIATE medical attention.

**Medical conditions
generally aggravated**

by exposure: Wood dust may aggravate pre-existing respiratory conditions or allergies.

Chronic health

hazards: Wood dust(s), depending on the species (for example, iroko cocobolo), may cause allergic contact dermatitis on prolonged, repetitive contact, and respiratory sensitization after prolonged exposure to elevated dust levels (for example, western red cedar). Wood dust has been alleged to cause nasal/paranasal sinus cancer (certain European hardwoods: oak and beech).

Carcenogenicity Listing:

- () NTP Not Listed
- () IARC Monographs Not Listed
- () OSHA Regulated: Not Listed

5. FIRE FIGHTING MEASURES

Flammable Properties

Flash Point: NAP

Explosion limits:

Lower: See below under “Fire and Explosion Hazards”

Upper: NAP

Extinguishing Media: Dry chemical, carbon dioxide, sand.

Fire and Explosion Hazards: Depending on moisture content and more importantly particle diameter, wood dust may explode in the presence of an ignition source. An airborne concentration of 40 grams (40,000 mg) of dust per cubic meter of air is often used as the LEL for wood dusts. Explosive mixtures may be generated upon contact of aluminum with halogen acids, sodium hydroxide, bromates, iodates, or ammonium nitrate. Fine aluminum chips, turnings, and dusts in the air may explode if ignition source is present.

Fire Fighting Equipment: Metal fumes may be released during a fire. Firefighters should wear a self-contained breathing apparatus (SCBA) in pressure-demand, and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Accidental Release Measures: Sweep up, and then place into a suitable container for disposal.

7. HANDLING AND STORAGE

Steps to be taken in case material is released or spilled:

Not applicable for product in purchased form. Wood dust or aluminum shavings (fine) produced by cutting or remanufacturing may be vacuumed or shoveled for recovery or disposal. Avoid dusty conditions and provide good ventilation. Use NIOSH/MSHA approved respirator and goggles where ventilation is not possible.

Waste disposal method:

If disposed or discarded in its purchased form, dry land disposal is acceptable in most states. It is, however, the user's responsibility to determine at the time of disposal whether the user's product meets RCRA criteria for hazardous waste. Follow applicable federal, state, or local regulations.

Handling:

No special handling precautions are required.

Storage:

Do not store where product may contact halogen acids, sodium hydroxide, bromates, iodates, ammonium nitrates, oxidizing agents, and solvents.

Other precautions:

A NIOSH/MSHA-approved respirator and goggles should be worn when the allowable exposure limits may be exceeded. All "hot work" (welding, cutting) should be done under adequate ventilation to remove fumes and gases.

8. EXPOSURE CONTROLS, PERSONAL PROTECTION

Respiratory

Protection:

Not applicable for product in purchased form. However, a NIOSH/MSHA-approved respirator is recommended when the allowable exposure limits may be exceeded.

Protective Gloves: Not required. However, cloth, canvas or leather gloves are recommended to minimize cut, metal slivers and/or mechanical irritation from handling product.

Eye Protection: Not applicable for product in purchased form. Goggles or safety glasses are recommended when machining this product.

Other Protective Clothing or

Equipment:

Not applicable for product in purchased form. Outer garments may be desirable in extremely dusty areas.

Work/Hygiene

Practices:

Follow good hygienic and housekeeping practices. Cleanup areas where wood dust settles to avoid excessive accumulation of this combustible material. Minimize blow down or other practices which generate high airborne-dust concentrations.

VENTILATION:

Local Exhaust: Provide local exhaust as needed so that exposure limits are met.

Mechanical (general): Provide local exhaust as needed so that exposure limits are met.

Special: Self-contained breathing apparatus (SCBA) recommended when fighting fire.

Other: NAP

Exposure guidelines

Aluminum CAS# 7429-90-5

United States OSHA: 15 mg/m³ TWA (total dust); 5 mg/m³ TWA (respirable fraction)

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Solid
Color:	According to product spec. (Red, white, blue)
Odor:	None
Vapor pressure (mm Hg):	NAP
Vapor density (AIR=1):	NAP
Specific gravity (H₂)=1):	Variable: 0.40-0.80 (Wood) 2.7 (Aluminum)
Explosion limits:	Lower: NAP Upper: NAP
Flash Point:	NAP
Melting point:	NAP
Solubility in Water:	Insoluble

10. STABILITY AND REACTIVITY

Stability:	Stable under normal conditions of storage and handling.
Materials to avoid:	Avoid halogen acids, sodium hydroxide, bromates, iodates, ammonium nitrate, oxidizing agents, and solvents.
Conditions to avoid:	NAP
Hazardous decomposition or by-products:	Thermal decomposition products may include carbon monoxide, carbon dioxide, aldehydes, rosin acids, terpenes, polycyclic aromatic hydrocarbons, ozone, nitrogen oxides, hydrogen cyanide, and metal fumes.
Hazardous polymerization:	Will not occur.

11. TOXICOLOGICAL INFORMATION

Acute toxicity data

No toxicity data available for this product.

Other information:

IARC: not listed

12. ECOLOGICAL INFORMATION

Ecotoxicity:

No ecotoxicity data available.

Mobility: Not determined.

Biodegradability: No data available.

Bioaccumulation: Not determined

13. DISPOSAL CONSIDERATIONS

Dispose of waste according to relative regulations. Contact a specialist disposal company or the local authority or advice.

14. TRANSPORT INFORMATION

The preparation is not classified as dangerous

Proper shipping name: NA
Hazard class: Not regulated
Packing group: NA
Identification number: NA

15. REGULATORY INFORMATION

US Federal
TSCA
CAS# 7429-90-5 is listed on the TSCA Inventory.

16. OTHER INFORMATION

Issue Date: March 3, 1997

This information and these recommendations are offered in good faith and believed to be correct as of the date hereof. Information and recommendations are supplied upon the condition that the recipients will make their own decision as to safety and suitability for their purposes. No representations or warranties, either expressed or implied, of merchantability, fitness for a particular purpose, or of any other nature, are made with respect to the product or the information and recommendations. We make no representation as to completeness or accuracy. In no event we shall be responsible for damages of any nature whatsoever resulting from the use or reliance upon the information and recommendations.

* * * END OF MSDS * * *