

Material Safety Data Sheets Coated Aluminum Outdoor Products (MSDS)

1. Product and company identification

Product name	Aluminum Outdoor Products
Manufacturer/Supplier	PrimeAlux, Aqaba International Industrial Estate.
Telephone number	Tel: +962 3 203 1353
Physical State	Solid
Odor	Odorless
End use	Construction
Product description	Aluminum outdoor products consisting of laminated aluminum with polyurethane foam core. coated extruded aluminum profile, alloys :3xxx; 6xxx.

2. Composition / Information on Ingredients

CAS	Component
7429-90-5	Aluminum
7439-95-4	Magnesium
7439-96-5	Manganese
7439-89-6	Iron
7440-21-3	Silicon
7440-47-3	Chromium
7440-32-6	Ti
7440-66-6	Zinc
7440-21-3	Si
9009-54-5	PU Foam Core
NA	Coatings*

Coatings include epoxy, polyester, high durable polyester, polyurethane.

3. Hazards identification

PrimeAlux products with PU Foam Core, various colors, odorless, non-combustible as supplied, fine tuning and metal dust from processing may be readily ignitable.

Metal Dust from processing can cause irritation of eyes, skin and upper respiratory tract, combustion of the coating can generate toxic and irritating gasses.

GHS Classification: Not classified.

EU Classification: Not classified.

US Emergency Overview: Low hazard for usual industrial or commercial handling by trained personnel.

Other Hazards:

In solid form: Not hazardous.

Suspensions of aluminum dust in air may pose a severe explosion hazard. Aluminum dust reacts Violently with halogenated hydrocarbon and oxidizer,

Dust generated from foam when cutting may produce dehydration effect.

Canada WHMIS Classification: Does not meet the criteria for a controlled product.

This material is not hazardous under the criteria of the federal OSHA Hazard communication Standard 29 CFR 1910-1200.

Potential health effect

The health effects listed below are not likely to occur unless processing of this product generates dust or fumes.

Effect on eyes:

Effect on skin:

Inhalation:

4. First aid measures

Inhalation:

If symptomatic, move to fresh air. Get medical attention if symptoms persist.

Eye Contact: Flush eyes thoroughly with water, taking care to rinse under eyelids. If irritation persists, continue flushing for 15 minutes, rinsing from time to time under eyelids. If discomfort continues, consult a physician.

5. Firefighting measures

Product does not present fire or explosion hazards as shipped. Small chips, fines turnings and dust from processing may ignite readily.

Auto Ignition Temperature: Dust from processing may burn readily.

Hazardous Combination Products: Not known.

Unsuitable Extinguishing Media: Do not use halogenated extinguishing media.

Special Fire Fighting Procedures: Use standard firefighting procedures and consider the hazards of other involved materials.

Unusual Fire & Explosion Hazards: Mechanical cutting, grinding or sawing can cause formation of dusts. To reduce the potential for dust explosion, do not permit dust to accumulate. Dense smoke is emitted when burned without sufficient oxygen.

Protective Measures: Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

6. Accidental release measure:

Personal Precautions: Aluminum in the form of particles may be reactive. Its hazardous characteristics, including fire and explosion, should be considered prior to handling. Avoid generation and spreading of dust.

Spill Cleanup Methods: Spillage should be collected for recycling.

7. Handling and storage

Handling: Avoid contact with sharp edges and hot surfaces. Use appropriate gloves and tools to ensure a safe handling. metal scrap should be thoroughly dried prior to re-melting. Use standard techniques to check metal temperature before handling. Hot aluminum does not present any warning color change. Exercise great caution, since the metal may be hot.

For wetted PrimeAlux products: ensure that nylon cover has no damage to avoid penetration of water to the product.

If the water reaches product surface, remove the nylon package or cover and leave to dry.

Storage: Store in a dry place. For more information on the handling and storage of aluminum, consult the following documents published by Aluminum Association, 900 19th St., N.W., Washington D.C., 20006:

8. Stability and reactivity:

Stability: Material is stable under normal conditions.

Reactivity: Material is stable under normal conditions, avoid contact the material with heat sources or moisture or water.

- **Water:** slowly generates flammable / explosive gas and heat. Generation rate is greatly increased with smaller particles (i.e. fines and dusts)
- **Molten aluminum** can react violently / explosively with water or moisture, particularly when the water is entrapped.
- **Heat:** Oxidizes at a rate dependent upon temperature and particle size.
- **Strong Oxidizers:** Violent reaction with considerable heat generation.

- **Acids and Alkalis:** Reacts to generate flammable/explosive hydrogen gas. Generation rate is greatly increased with smaller particles (e.g. fines and dusts).
- **Halogenated compounds:** Many halogenated hydrocarbons, including halogenated fire extinguishing agents, can react violently with finely divided aluminum.
- **Iron oxide(rust) and other metal oxides eg. copper and lead oxides):** A violent thermite reaction generating considerable heat can occur. Reaction with aluminum fines and dusts requires only very weak ignition sources.

9. Physical and chemical properties

Melting Point: 450-700 °C

Freezing Point: Not applicable. **Boiling Point:** Not applicable.

Evaporation Rate: Not applicable.

Flammability Limit - Upper (%): Not applicable.

Flammability Limit - Lower (%): Not applicable.

Vapor Pressure: Not applicable.

Vapor Density (Air=1): Not applicable.

Solubility in Water: Not applicable

Solubility (Other): No data available.

Partition Coefficient (n-Octanol/water): Not applicable.

Odor: Odorless

Odor Threshold: N/A

Physical State: Foam

Color: Natural

pH: Not applicable

Specific Gravity: 2.5 -2.9

Flash Point: Not applicable

Autoignition Temperature:

No test data available.

Decomposition Temperature:

No data available.

10. TOXICOLOGICAL INFORMATION

LD₅₀ of Product:

Aluminum –Not known.

Chromium –Not known.

Magnesium –oral rat 9000mg/kg body weight.

Manganese –Not known.

Zinc –Not known.

Silicon –oral rat 3160mg/kg body weight.

LC₅₀ of Product:

Aluminum -Not known.
Chromium -Not known.
Magnesium -Not known.
Manganese -Not known.
Zinc -Not known.
Silicon -Not known.

Inhalation: Solid aluminum does not present an inhalation hazard. Aluminum dusts generated during use are considered nuisance particulates.

Eye Contact: Dust may irritate the eyes.

Skin Contact: May cause irritation through mechanical abrasion. Skin contact with hot metal can cause burns.

Ingestion: Not applicable.

Sensitization: No data recorded.

Carcinogens: None

Mutagenesis: No data available.

Reproductive Toxicity: No data available.

Other Effects:

Aluminum fumes generated during welding or melting present low health risks. Welding or plasma arc cutting of aluminum alloys can generate ozone, nitric oxides and ultraviolet radiation. Ozone overexposure may result in mucous membrane irritation or pulmonary discomfort. UV radiation can cause skin erythema and welder's flash.

Medical conditions aggravated by exposure to the product: None known.

Chronic Effects / Carcinogenicity: Aluminum is not listed by OSHA, IARC or NTP as a carcinogen

11. ECOLOGICAL INFORMATION

Ecotoxicity:

Not expected to be acutely toxic to aquatic organisms.

Specified Substance(s): Chemical Name: Aluminum and PU foam

Mobility: Not relevant, due to the form of the product.

Persistence and Degradability: No data available.

Bioaccumulation Potential: The product is not bioaccumulating.

Other Adverse Effects: None known.

12. TRANSPORT INFORMATION

DOT Non-Bulk: Not Regulated

DOT Bulk: Not Regulated

ADR / RID: Not Regulated

TDG: Not Regulated

IATA: Not Regulated

IMDG: Not Regulated

13. REGULATORY INFORMATION

OSHA Process Safety Standard:

This material is not known to be hazardous as defined by OSHA's Process Safety Management Standard, 29 CFR 1910.119.

TSCA Status: All components listed.

CERCLA Reportable Quantity: Chromium, Zinc and Nickel.

Document information

The information in this Material Safety Data Sheet is in accordance with the latest available information. Your use of this information and the use to which you put the alloy are beyond our control. This information is provided without any representation or warranty expressed or implied. The above information is in line with latest knowledge and experiences. We intend to describe our product so as to fit all safety measures required. However, we cannot assume responsibility or give assurance about its effects and behavior.