



Geolam Hybrid Aluminum/WPC Architectural Elements

Material Safety Data Sheet

Material characteristics

Compound:

Metal-resin composite

Chemical composition:

Surface layer: Polypropylene resin extrusion

Polypropylene resin: 60% - 70%

Wood flour: 15% - 25%

Pigments/additives: 5% - 25%

Adhesive layer: Ethylene copolymer resin

Core: Aluminum alloy

UN classification: n/a

Hazard/toxicity classification:

No classification

First Aid Measures

Eye contact:

Can cause injury to eyeball. Wash gently in plenty of clean running water. Do not rub. If foreign matter remains in the eye, seek advice from a specialist.

Skin contact:

For dust, remove by washing with soap and water. For hot melt, douse clothing in cold water to cool, then remove affected garments and seek medical advice.

Inhalation:

For significant quantities of dust, seek medical advice.
For significant quantities of molten resin gas, relocate to a fresh air environment.

Ingestion:

For small quantities, induce vomiting where practicable. If patient still feels unwell, seek medical advice.

Fire Fighting Measures

Warnings:

Wear fireproof clothing and respiratory equipment. Beware of intense heat, thick black smoke, carbon dioxide, carbon monoxide and nitrogen oxide gas.

Extinguishing media:

Water / water spray, powder, foam or carbonic acid gas.

Accidental Release Measures

- Sweep up and dispose of dust generated during cutting and finishing work.
- Dust can be highly slippery under foot. Ensure floors are properly cleaned and maintained.
- Collect and remove all surface spills, particularly in drainage system.

Handling and Storage

Handling

Although the product does not ignite at normal temperature, it should be stored properly and kept away from sources of flame in the workplace.

Do not store resin in powder form as it can potentially explode. Product is flammable. Keep well away from ignition sources during use.

Product has an aluminum alloy core which may be exposed at the ends. Wear protective gloves and handle with care.

Storage

Product is a designated flammable material and as such is subject to special provisions on storage and handling. Store well away from sources of flame.



Exposure Controls

Concentration in workplace environment:

n/a

Allowable concentration:

n/a

Ventilation:

Ventilation equipment should be installed where processing heat generates low molecular weight substances.

Protective gear:

Dust masks and safety goggles should be worn where dust is given off.

Physical and Chemical Properties

Melting point: Data not available

Volatility: n/a

Solubility: Not soluble in water

Hazard Information

Flammability:

Flammable

Ignition point:

Data not available

Oxidizability:

Data not available

Dust explosion properties:

Explosive

NB: Aluminum dust can be explosive. Beware dust from aluminum core during cutting and working.

Stability/reactivity:

Stable and nonreactive under normal storage conditions.

Toxicological Information

Skin causticity:

None

Skin/eye irritant:

Data not available (NB: May act as physical stimulant)

Subacute toxicity:

Data not available

Chronic toxicity:

Data not available

Carcinogenicity:

Data not available

Disposal Considerations

1. The product is a compound of aluminum alloy and synthetic resin and should be disposed of as a flammable substance in accordance with applicable laws and regulations and the relevant handling provisions.
2. Should be disposed by incineration, landfill or entrusted to an industrial waste disposal contractor. Dispose of product in accordance with the requirements of the Waste Management and Public Cleansing Law.
3. Incineration can generate black smoke and/or toxic fumes with potential environmental consequences.

Transport Information

1. Exercise due care during transportation to prevent damage.
2. Product should be treated as flammable and subject to the handling and storage provisions detailed above.

Applicable Legislation

Fire Service Act:

- Designated flammable substances – synthetic resin, 3 000 kg
- Law Concerning Pollutant Release and Transfer (PRTR Law): n/a
- Industrial Safety and Health Act: n/a
- Waste Management and Public Cleansing Act

Other Information

The information presented in this MSDS is based on currently available data. This MSDS does not in any way constitute a warranty or guarantee in relation to any of the physical and chemical properties of the product nor its hazard and toxicity characteristics.

The advice and warnings provided in this MSDS are predicated on standard usage and handling procedures. Additional safety measures may be required for non-standard usage or handling of the product.