MATERIAL SAFETY DATA SHEET (MSDS)

Current Issue Date: January 2019

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: Miura Board™ Decking, Siding, Sticks, Sheets, Pavers, Regrind
Description: Dense, non-porous, wood-like material
Manufacturer: Athyron LLC
465 E Deer Street
Kountze, TX 77625
24-hour emergency: 409-200-7110
Product and MSDS information: 409-200-7100

2. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical names:

1. Polyethylene (PE)
2. Polypropylene (PP)
3. Calcium Carbonate $CaCO_3$
3. Nylon
4. Polyester

Ingredients considered hazardous to health: None. All are supplied as nonreactive solids (no chemical reaction occurs during processing). Only heat and pressure are required to form the finished product.
Ingredient names and **weight percentages**:
Contains 50% to 90% recycled thermoplastics (polyethylene and or polypropylene) and 50% to 10% recycled carpet backing (polypropylene, calcium carbonate, nylon and/or polyester).
See Section 8 for exposure limits (if applicable).

3. HAZARDS IDENTIFICATION

There are no hazards associated with the product for which first aid is required. This is a polymeric material and as such, all components are enclosed in the polymer system and therefore present no likelihood of exposure under normal conditions of processing and handling. Airborne dust may be generated in sawing, grinding, routing, and sanding.

CONTAINS NO WOOD. According to OSHA CFR 1910.1200, certain wood fibers are considered hazardous if the workplace airborne concentration exceeds the OHSA or ACGIH exposure limits (See section 8).

4. FIRST AID MEASURES

Eyes: Flush thoroughly with water. If irritation occurs, seek medical assistance.
Skin: Wash contact areas with soap and water.
Inhalation: If respiratory irritation, cough, shortness of breath, wheezing or chest tightness occurs after exposure to airborne dust, remove from further exposure and seek medical assistance.
Ingestion: Not a probable route of exposure. If uncomfortable, seek medical assistance.

5. FIRE-FIGHTING MEASURES

Extinguishing media: All standard agents: water, carbon dioxide, foam, dry chemical
Special firefighting procedures: Use water to keep the fire-exposed product cool. Full protective equipment, including self-contained breathing apparatus, is recommended as protection from fumes from large fires.
Flash point: Not applicable
Autoignition temperature: Not determined
Flame spread / propagation index: Not determined (estimated >437 C)
Lower flammable limit: Not applicable
Upper flammable limit: Not applicable
Hazardous combustion products: Smoke, carbon monoxide. Incomplete thermal oxidation of nylon can produce hydrogen cyanide.

6. ACCIDENTAL RELEASE OR SPILL MEASURES

Notification procedure: None
If the material is released or spilled: When dust is generated as a result of cutting or sawing, wet down material then sweep or vacuum for disposal.
Environmental precautions: None.
Personal precautions: See Section 8.

7. HANDLING AND STORAGE

Handling: Always wear recommended personal protective equipment. The material is heavier when compared to most traditional lumber. Employ proper handling to prevent damage or injury.
Storage: No special storage requirements.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Respiratory protection: None normally required. An approved dust respirator meeting 42 CFR Part 84 standards should be worn if dusty conditions exist.
Eye protection: Safety glasses or goggles should be worn to protect against dust.
Skin protection: No special equipment required.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Dense, non-porous, wood-like material
Color: grey, beige or brown.
Odor: No specific odor
pH: Not applicable
Boiling point: Not applicable
Melting point: Approximately 230 C
Flash point: Not determined
Flammability: SwRI – Flame Spread Index = 115
Self-ignition: >400 C
Water absorption: <.5% by weight
Water solubility: None
Coefficient of thermal expansion: 2.8×10^{-5} (1/C)

10. STABILITY AND REACTIVITY

Reactivity: None known
Chemical stability: Stable
Possibility of Hazardous Reactions: None known
Conditions to avoid: None at ambient temperatures.
Incompatible materials: Strong oxidizing agents
Hazardous decomposition products: Carbon monoxide, carbon dioxide. Incomplete thermal oxidation of nylon can produce hydrogen cyanide

11. TOXICOLOGICAL DATA

Information on likely routes of exposure
Inhalation: None known
Ingestion: None known
Skin contact: Molten material will produce thermal burns
Eye contact: Molten material will produce thermal burns
Information on toxicological effects Acute Toxicity
Oral product: No data available

12. ECOLOGICAL INFORMATION

No data available

13. DISPOSAL CONSIDERATIONS

Dispose of as non-hazardous waste in accordance with local, state and federal regulations.

14. TRANSPORT INFORMATION

USA DOT: Not regulated
IMO: Not regulated
IATA: Not regulated

15. REGULATORY INFORMATION

US Toxic Substances Control Act (**TSCA) inventory status**: All Components of this product are listed on the TSCA Inventory. Any impurities present in this product are exempt from listing.
Section 311-312 Hazard Class: Fire hazard.
US EPCRA (SARA Title III) Section 313 –Toxic Chemical List: none

Disclaimer:
This information is provided without warranty. Information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.