FULLFORCE™
Engineered Solutions

SAFETY DATA SHEET

FIBERFORCE 650

Macrofiber

DESCRIPTION

FiberForce 650 is a synthetic macrofiber made from a specific blend of polypropylene and polyethylene resins that possess unique engineering properties. Defined as a tape or ribbon fiber, FiberForce 650 has a rectangular cross-section and has been mechanically embossed to enhance bonding. The physical dimensions of FiberForce 650 are critical to the performance, as measured by ASTM C1399 and C1609. FiberForce 650 has excellent distribution and finishing properties.

HAZARDS IDENTIFICATION

Emergency Overview: This product does not require any hazard warning on the label under OSHA criteria.
GHS Classification: Not a hazardous substance or mixture according to the Globally Harmonized System (GHS).

Potential Health Effects

- Eye Contact - No significant health hazards identified. Particles may cause slight discomfort, similar to getting dust in eye.
- Skin Contact - No significant health hazards identified. Particles may cause slight discomfort similar to rubbing sand on skin.
- Inhalation - No significant irritation expected other than possible mechanical irritation. When heated, the vapors/fumes given off may cause respiratory tract irritation.
- Ingestion - No significant health hazards identified.
- HMIS Hazard ID - (Health: 1) (Flammability: 1) (Reactivity: 0)
- NFPA Hazard ID - (Health: 1) (Flammability: 1) (Reactivity: 0)

TOXICOLOGICAL INFORMATION

Acute Toxicity Data

- Eye Irritation - Testing not conducted.**
- Skin Irritation - Testing not conducted.**
- Dermal LD50 - Testing not conducted.**
- Oral LD50 - Testing not conducted.**
- Inhalation LD50 - Testing not conducted.**

****Other Toxicity Data**

Specific toxicity tests have not been conducted. Hazard evaluation is based on similar product information, the ingredients, technical literature, and/or professional experience.

HANDLING AND STORAGE

- Handling - No special requirements.
- Storage - No special requirements.

FIREFIGHTING MEASURES

- **Extinguishing Media** - Agents approved for Class A hazards (e.g., halogenated agents, foam, steam) or water fog.
- **Specific Hazards** - Incomplete burning can produce carbon monoxide, dioxide and other harmful products. Avoid creating dust; fine dust in air in sufficient concentration and in presence of an ignition source is a potential dust explosion hazard.
- **Fire Fighter Equipment** - Full bunker gear and positive pressure self-contained breathing apparatuses should be worn.

FIRST AID MEASURES

- Eyes - Flush eyes with plenty of water. Seek medical attention if irritation persists.
- Skin - Wash exposed skin with soap and water. Seek medical attention if irritation develops.
- Inhalation - If adverse effects occur, remove to uncontaminated area.
- Ingestion - If a large amount is swallowed, seek medical attention.

ACCIDENTAL RELEASE MEASURES

Spilled material may present a slip hazard. Contain and remove by mechanical means. Prevent entry into waterways and sewers.

EXPOSURE CONTROLS

OSHA Permissible Exposure Limit

- 8 hr. TWA of 15 mg/m cu. Total Dust
- 8 hr. TWA of 5 mg/m cu. Respirable Fraction

ACGIH Threshold Limit Value

- 8 hr. TWA of 10 mg/m cu. Inhalable Particles
- 8 hr. TWA of 3 mg/m cu. Respirable Particles

Engineering Controls

- Control airborne concentrations below the exposure guidelines.

PERSONAL PROTECTION

- Eyes - None required; however, if contact is likely, safety glasses with side shields are recommended.
- Skin - None required; however, use of protective gloves/clothing is a good industrial practice.
- Inhalation - None required; however, use of adequate ventilation is a good industrial practice.
- Specific Hygiene Measures - Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Discard contaminated clothing and footwear that cannot be cleaned. Practice good housekeeping.

COMPOSITION / INGREDIENT INFORMATION

Component	CAS #	Range % By Weight
Polypropylene/ Polyethylene Blend	9003-07-0	100%

PHYSICAL AND CHEMICAL PROPERTIES

- Appearance - Solid fiber, translucent white color.
- Odor - None to mild.
- PH - Not determined.
- Vapor Pressure - Not determined.
- Vapor Density - Not determined.
- Boiling Point - Not determined
- Melting Point - 130 °C (266 °F) - 170° C (338 °F)
- Solubility in Water - Negligible, below 1%
- Specific Gravity (Water=1) - 0.91

STABILITY AND REACTIVITY

- Stability - Stable.
- Conditions to Avoid - Avoid elevated temperatures for prolonged periods of time.
- Materials to Avoid - Strong oxidizers, Fluorine.
- Hazardous Decomposition Products - Material does not decompose at ambient temperatures.
- Hazardous Polymerization - Will not occur.

DISPOSAL CONSIDERATIONS

Disposal Recommendations

Material that cannot be saved for either recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Properly sispose of the container and unused contents in accordance with all federal, state and local requirements.

Regulatory Disposal Recommendations

Product is not listed by the EPA as a hazardous waste (40 CFR, Part261D), nor is it formulated to contain materials which are listed as hazardous wastes. It does not exhibit the hazardous characteristics of ignitability, corrosivity or reactivity and is not formulated with contaminants as determined by the Toxicity Characteristic Leaching Procedure (TCLP). However, used product may be regulated.

ECOLOGICAL INFORMATION

Ecological testing has not been conducted on this prouct. Information given is based on data available for the material and similar materials.

Ecotoxcity

- Not expected to be harmful to terrestrial or aquatic organisms.

Persistence and Degradability

- Biodegradation - Expect to be persistent.
- Hydrolysis - Transformation due to hydrolysis not expected to be significant.
- Photolysis - Transformation due to photolysis not expected to be significant.
- Atmospheric Oxidation - Transformation due to atmospheric oxidation is not expected to be significant.
- Mobility - Low solubility and floats and is expected to migrate from the water to the land. Expected to partition to sediment and wastewater solids.
- Bioaccumulation Potential - Potential to bioaccumulate is low.

REGULATORY INFORMATION

- SARA (311/312) Reportable Hazard Categories - None
- T.S.C.A - All components are listed in the T.S.C.A. inventory.
- SARA 313 - This product contains no chemicals subject to supplier notification requirements of the SARA 313 Toxic Release Program.
- EPCRA Section 302 - This product does not contain any extremely hazardous substances.
- Ozone Depletion Potential - This product does not contain Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App. A + B).
- California Prop. 65 Components - This product does not contain any components listed under California Prop. 65.

TRANSPORTATION INFORMATION

- U.S. Department of Transportation - Not regulated for transport.
- SEA (IMDG) - Not regulated for transport.
- AIR (IATA) - Not regulated for transport.
- European Road/Rail (ADR/RID) - Not regulated for transport.
- Canadian Transport of Dangerous Goods - Not regulated for transport.