

# Material Safety Data Sheet

## 1. Identification

**Product Name:** MiniFIBERS Short Stuff® Polyethylene Type E and UL  
**Synonyms:** Polyethylene Pulp, Polyolefin Pulp, Olefin Pulp  
 E380F, E385F, E400F, E505F, E780F, E795F, E990F, ESS2F, ESS5F, ESS50F, UL410F  
**Manufacturer:** MiniFibers Inc.; 2923 Boones Creek Road; Johnson City, TN 37615 USA  
**Telephone:** Information: (423) 282-4242 Emergency: (423) 282-4242  
**Date Prepared:** November 2008

HMIS	
HEALTH	0
FLAMMABILITY	1
PHYSICAL HAZARD	0

## 2. Hazard Identification

This product is not hazardous under the criteria of U.S. Occupational Safety and Health Standard 29 CFR 1910 Subpart Z and United Nations GHS Parts 2, 3, and 4.

## 3. Composition / Information on Ingredients

Substance	CAS No.	EC No.	Concentration By Weight
Polyethylene	9002-88-4	-	>95%
Polyvinyl Alcohol	9002-89-5	209-183-3	<5%

## 4. Emergency & First Aid Measures

### Routes of Exposure:

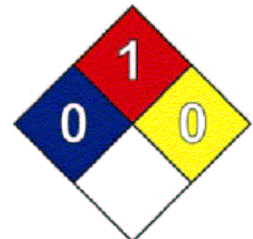
- Inhalation:** Inhalation of fibers or fiber dust may cause respiratory irritation. Move to fresh air if effects occur. Consult a physician if persistent coughing or other symptoms develop.
- Skin:** **If thermal burn, cool with water and seek immediate medical attention; do not attempt to peel fibers from skin.** Non-thermal contact with fibers may cause mechanical irritation of the skin. Wash off with soap and water, and consult a physician if symptoms develop.
- Skin Absorption:** A single prolonged skin exposure is not likely to result in the material being absorbed through the skin in harmful amounts.
- Eyes:** Fibers or fiber dust may cause irritation or scratch the surface of the eyes. Flush with water to remove particles; remove contact lenses if present part eyelids with fingers to ensure complete flushing. Consult a physician if persistent irritation or other symptoms develop.
- Ingestion:** No adverse effects are believed to occur from swallowing a small amount. Consult a physician if symptoms develop or if a large amount is swallowed.

Contaminated clothing does not need to be removed.

Personal protective equipment is not required for first-aid responders.

## 5. Fire Fighting Measures / Fire & Explosion Hazard Data

- Flash Point:** >200°C
- Flammable Limits:** Not determined
- Extinguishing Media:** Water, CO2, dry chemicals.
- Hazardous Combustion Products:** May include, but are not limited to, CO and CO2.
- Unusual Fire & Explosion Hazards:** As with many solids, any dust that is generated may be explosive if mixed with air in critical proportions and in the presence of a source of ignition.
- Special Fire Fighting Procedures:** Avoid excessive inhalation of smoke or potential thermal decomposition products. Keep product cool by spraying with water. If outdoors, fight fire from an upwind position.
- Special Protective Equipment:** Due to potential decomposition of the polymer, firefighters should be equipped with positive pressure self-contained breathing apparatus (SCBA) and standard protective fire fighting clothing (helmet, eye protection, overalls, boots, and gloves) when fighting all indoor fires and any significant outdoor fires.



## 6. Accidental Release Measures / Steps to be Taken if Material is Released or Spilled

- Personal Precautions:** None needed.
- Environmental Precautions:** None needed.
- Methods for Cleanup:** Vacuum or sweep up and place in a standard disposal container. Avoid the use of air jets.

## 7. Precautions for Safe Handling & Storage

- Precautions for Safe Handling:** No special handling has been shown to be necessary.
- Conditions for Safe Storage:** Avoid overstacking to prevent collapse or breakage of the package. Do not store near flame or incompatible substances. Store at temperatures below 60°C (150°F).
- Other Precautions:** None

## 8. Exposure Control Measures / Personal Protection

- Exposure Guidelines:** Fiber dust should be considered a nuisance dust, i.e. particulates (not otherwise classified):  
 ACGIH Threshold Limit Value: 10 mg/m<sup>3</sup> total dust; 3-mg/m<sup>3</sup> respirable dust  
 OSHA Permissible Exposure Limit: 15 mg/m<sup>3</sup> total dust; 5-mg/m<sup>3</sup> respirable dust
- Engineering Controls:** Local exhaust recommended to reduce exposure to fiber dust.
- Specific Personal Protective Equipment:**
  - Respiratory:** For operations where inhalation exposure can occur, a NIOSH approved dust mask/respirator is recommended.
  - Eye:** For operations where eye contact can occur, eye protection such as goggles or safety glasses is recommended.
  - Hand:** Protective gloves not required.
  - Skin/Other:** Not required.
- Work/Hygienic Practices:** Maintain good housekeeping to control dust accumulations. Avoid the use of air jets to blow off

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equipment; use vacuums instead.

## 9. Physical & Chemical Properties / Characteristics

<b>Chemical Formula:</b>	-(C <sub>2</sub> H <sub>4</sub> )-	<b>Flash Point:</b>	>200°C	<b>Solubility:</b>	Negligible
<b>Appearance:</b>	White solid	<b>Evaporation Rate:</b>	Does not apply	<b>Partition Coefficient:</b>	No data available
<b>Odor:</b>	No odor	<b>Flammability:</b>	Non-flammable	<b>Auto-Ignition Temp:</b>	No data available
<b>pH:</b>	No data available	<b>Vapor Pressure:</b>	Does not apply	<b>Decomposition Temp:</b>	No data available
<b>Melting Point:</b>	135°C	<b>Vapor Density:</b>	Does not apply	<b>Viscosity:</b>	Does not apply
<b>Boiling Point:</b>	Does not apply	<b>Specific Gravity:</b>	0.96 g/cm <sup>3</sup>	<b>Shelf Life:</b>	Does not expire

## 10. Stability & Reactivity Data

<b>Reactivity:</b>	Data not available.
<b>Stability:</b>	Stable under normal conditions.
<b>Hazardous Polymerization:</b>	Will not occur.
<b>Conditions to Avoid:</b>	Excessive heat should be avoided. Small quantities of fumes evolve at about 225°C (435°F). These gradually increase until, at above 300°C, decomposition and oxidative pyrolysis take place. Above 300°C the heat of oxidation may produce a rapid rise in temperature which accelerates the pyrolysis. Under these circumstances hazardous substances such as carbon monoxide, formaldehyde and acrolein can evolve.
<b>Incompatible Materials:</b>	Tends to decompose in strong acids & bases.
<b>Hazardous Decomposition Products:</b>	None anticipated under normal or recommended handling and storage conditions.

## 11. Toxicological Information / Health Hazard Data

<b>Health Hazards (Acute and Chronic):</b>	According to the hypothesis of Stanton-Pott, it is reported that there is a possibility of causing cancer when ultra-fine fibers below 0.25 µm in diameter and above 8 µm in length are absorbed into the lung. When this product was observed with the electron microscope, the diameter of the fibers was above 1 µm, and the average length was over 100 µm; therefore the values were higher than those provided by this hypothesis. However, in the manufacturing process, the product may be reduced into ultra-fine fibers that come within the range presented in the Stanton-Pott hypothesis.
<b>Carcinogenicity:</b>	
<b>NTP:</b>	Not listed.
<b>IARC:</b>	3 - Not classifiable as to its carcinogenicity to humans.
<b>OSHA:</b>	Not regulated.
<b>Signs and Symptoms of Exposure:</b>	No data available.
<b>Medical Conditions Aggravated by Exposure:</b>	Some individuals, e.g. with asthma or bronchitis, are likely to be intolerant of high concentrations of airborne fibers or fiber dust when processing.

## 12. Ecological Information

<b>Toxicity:</b>	No data available.
<b>Persistence and Degradability:</b>	No data available. Fiber is not biodegradable.
<b>Bioaccumulative Potential:</b>	No data available.
<b>Mobility in Soil:</b>	No data available.

## 13. Disposal Considerations

<b>Waste Disposal Method:</b>	Dispose of in accordance with all applicable governmental regulations for non-hazardous solid waste. Disposal via septic or sewage systems is not recommended. Recycling of corrugated packaging is encouraged where possible. Other packaging may be disposed of with product. Standard disposal containers are acceptable.
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## 14. Transport Information

<b>Proper Shipping Name:</b>	Polyethylene Pulp	<b>U.S. DOT:</b>	Not regulated.
<b>U.S. NMFC Item Number:</b>	68310	<b>ICAO/IATA:</b>	Not regulated.
<b>HTC Number:</b>	3920.10	<b>IMDG:</b>	Not regulated.
<b>U.N. Number:</b>	None	<b>Canada TDG:</b>	Not regulated.

## 15. Regulatory Information

<b>International:</b>	<b>Federal (U.S.):</b>
Canada: DSL/NDSL: Included on the Canadian Domestic Substance List.	EPA: Not regulated. All components of this product are listed on the TSCA Inventory.
Canada: WHMIS: Not a controlled product.	OSHA: Not hazardous under the criteria of Occupational Safety and Health Standard 29 CFR 1910 Subpart Z.
Europe: Not classified as dangerous according to Directive 1999/45/EC.	<b>State:</b>
UN: Does not appear on the Dangerous Goods List.	CA: Proposition 65: Does not contain chemicals known to the State of California to cause cancer or reproductive toxicity.

## 16. Other Information

This MSDS has been prepared in compliance with United States OSHA Hazard Communication Standard 29 CFR 1910.1200 and the United Nations Globally Harmonized System for the Classification and Labeling of Chemicals.

**Disclaimer:** To the best of our knowledge, the information contained herein is accurate. However, we cannot assume any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of the suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist.