

# Material Safety Data Sheet

Date last revised: June 3, 2002

I. General Information	
<b>Chemical Name &amp; Synonyms:</b> Polyvinyl alcohol fiber	<b>Trade Name &amp; Synonyms:</b> FSI 0200 series
<b>Chemical Family:</b> Polyvinyl alcohol fiber.	<b>Formula:</b> See "Ingredients" section.
<b>Proper DOT Shipping Name:</b> Polyvinyl alcohol fiber	<b>DOT Hazard Classification:</b> Non-hazardous
<b>Manufacturer:</b> Fiber Science, Inc.	<b>Manufacturer's Phone Number:</b> (321) 726-6327
<b>Manufacturer's Address:</b> 2855 Kirby Ave., NE, Suite #4, Palm Bay, Florida 32905	<b>24 Hour Emergency Phone Number:</b> (409) 883-3013

II. Ingredients		
Principal Components:	Percent	Threshold Limit Value (units)
Polyvinyl Alcohol Copolymer Compounds. CAS: Mixture	>99	Not Applicable.
Not hazardous as defined in 29 CFR 1910.1200		

III. Physical Data	
<b>Boiling Point (°F):</b> Not Applicable.	<b>Specific Gravity (H<sub>2</sub>O=1):</b> 0.85 to 1.5
<b>Vapor Pressure (mm Hg.):</b> Not applicable.	<b>Percent Volatile by Volume (%):</b> Not Established.
<b>Vapor Density (Air=1):</b> 0.6407 g/cc	<b>Evaporation Rate:</b> Not Applicable.
<b>Solubility in Water:</b> soluble in warm to hot water.	<b>Melting Point:</b> 170-230°C (338-446°F)
<b>Appearance &amp; Odor:</b> Solid fiber. Could have a slight odor.	

IV. Fire & Explosion Hazard Data		
<b>Flash Point (Test Method):</b> Not applicable.	<b>Auto Ignition Temperature:</b> Not Applicable.	
<b>Flammable Limits:</b> Not Applicable.	<b>LEL:</b> Not Applicable.	<b>UEL:</b> Not Applicable.
<b>Extinguishing Media:</b> Ignition will give rise to a Class A fire. In case of fire use water spray..		
<b>Special Fire Fighting Procedure:</b> Due to potential decomposition of the polymer, Firefighters should be equipped with positive pressure, self contained breathing apparatus (SCBA) and protective fire fighting clothing (fire fighting helmet, coat, pants, boots and gloves).		
<b>Unusual Fire &amp; Explosion Hazards:</b> Soak thoroughly with water to cool and prevent re-ignition. Dense smoke is emitted when burned without sufficient oxygen. Under fire conditions, polymers decompose. The smoke may contain polymer fragments of varying composition in addition to unidentified toxic and/or irritating components. Hazardous combustion by-products may include, and are not limited to, carbon monoxide, carbon dioxide, and aldehydes.		

<b>V. Health Hazard Data</b>	
<b>OSHA Permissible Exposure Limit:</b> Not established.	<b>ACGIH Threshold Limit Value:</b> No established value, product is inert.
<b>Carcinogen-NTP Program:</b> Not listed.	<b>Carcinogen-IARC Program:</b> Not listed.
<b>Symptoms of Exposure:</b> EYE CONTACT: Yarn or dust may cause irritation or corneal injury due to mechanical action. Mild eye irritant SKIN CONTACT: Essentially non-irritating to skin, Mechanical injury only. Wash affected area with soap and water. SKIN ABSORPTION: A single prolonged skin exposure is not likely to result in material being absorbed through skin in harmful amounts. INGESTION: May cause choking if yarn is swallowed. Single dose oral toxicity is believed to be very low. Product is not considered to present a toxicological emergency and no specific measures are recommended. INHALATION: Vapors are unlikely due to physical properties. Single exposure to dust or filaments is not likely to be hazardous.	
<b>Primary Route(s) of Entry:</b> Skin contact, Inhalation. Under normal circumstances, material is solid and inert. Abraded material may form fibrous or particulate dust.	
<b>Emergency First Aid:</b> EYES: Irrigate immediately with water for at least 5 minutes. Mechanical irritation only. SKIN: Wash off dust, particulate and loose filaments with flowing water or shower. Should molten material contact skin, cool affected area with water and exclude air. Treat for burn. INGESTION: No adverse effects anticipated by this route of exposure incidental to proper industrial handling. INHALATION: No adverse effects anticipated by this route of exposure incidental to proper industrial handling. If a problem develops, remove person to fresh air and supply oxygen if necessary.	

<b>VI. Reactivity Data</b>			
<b>Stability</b>	X	Stable	<b>Conditions to avoid:</b> Temperatures above 220°C (428°F) will release Aldehydes and other irritating gases.
		Unstable	
<b>Incompatibility</b>			<b>Materials to avoid:</b> Oxidizing Agents will degrade the product..
<b>Hazardous</b>		May Occur	
<b>Polymerization</b>	X	Will not occur	
<b>Hazardous Decomposition Products:</b> Decomposition products depend upon temperature, other materials present and air supply. During thermal processing, this material can degrade to produce aldehydes.			

<b>VII. Environmental Protection Procedures</b>	
<b>Spill Response:</b> Sweep up or vacuum in dry waste container and discard. Avoid contamination of ground and surface water.	
<b>Environmental Effects:</b> Biodegradable.	
<b>Waste Disposal Method:</b> Ensure that this material or products made from this material are cooled below 190°C (374°F) before storing or discarding. Bury in landfill in accordance with local, state and federal regulations. Chemical and/or biological degradation is feasible	

<b>VIII. Special Protection Information</b>	
<b>Eye Protection:</b> Use of eye protection is recommended in accordance with accepted industry safety procedures when handling fibers and yarns.	<b>Skin Protection:</b> Normal clothing should be adequate for most processing applications.
<b>Respiratory Protection (Specific Type):</b> Full face mask with organic vapor canister is recommended when decomposed material is present. Otherwise none required.	<b>Ventilation Recommended:</b> Provide exhaust over processing machinery as required.
<b>Other Protection:</b>	

<b>IX. Special Precautions</b>
<b>Hygienic Practices in Handling &amp; Storage:</b> Keep material dry, in sealed bags, and avoid exposure to excessive heat.
<b>Precautions for Repair &amp; Maintenance of Contaminated Equipment:</b> Mechanical handling equipment can cause formation of dust and wads of loose filaments. Maintain good housekeeping. Dust layers or loose filaments should not be permitted to accumulate in order to avoid any potential for dust explosion hazards.
<b>Other Precautions:</b> Avoid contact with eyes. Ensure material, or products made from this material is cooled below 190°C (374°F) before storing or discarding

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