ES FIBERVISIONS ™

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MATERIAL SAFETY DATA SHEET

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SECTION 1: PRODUCT IDENTIFICATION

PRODUCT NAME: ES FIBERVISIONS™ FIBER (PTC)
This MSDS applies to all polypropylene & polyester ES FIBERVISIONS™ bicomponent fiber types.

CHEMICAL DESCRIPTION: polypropylene & polyester bicomponent fiber
CASRN: proprietary mixture

HMIS RATING		NFPA RATING	
Health	**0**	**Health**	**0**
Flammability	**1**	**Fire**	**1**
Physical Hazard	**0**	**Reactivity**	**0**
		Special Hazards	

SECTION 2: HAZARDOUS COMPONENT INFORMATION

This product is not a health hazard according to the OSHA Hazard Communication Standard 29 CFR 1910.1200.

SECTION 3: HAZARDS INDENTIFICATION

No hazard anticipated under conditions of foreseeable use or exposure.
Refer to Section 5 for Hazardous Combustion Products and Section 10 for Hazardous Decomposition/Hazardous Polymerization Products.

SECTION 4: FIRST AID PROCEDURES

FIRST AID PROCEDURES:
No adverse health effects are expected from exposure to this product.
However, as with many materials, a very small percentage of the population may be allergic to one or more of the components that make up these products. Employees who have a history of skin disease or allergy should receive medical clearance prior to employment involving direct contact.

SECTION 5: FIRE HAZARDS

FIRE FIGHTING PROCEDURES:
Use standard procedures for Class A fires
Wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH approved (or equivalent) and full protective gear when fighting fires involving this product.

EXTINGUISHING MEDIA:
Water spray, dry chemical, foam, carbon dioxide or Halon may be used on fires involving this product.
CONDITIONS TO AVOID:
None known.
HAZARDOUS COMBUSTION PRODUCTS:
If heated to combustion, the following substances may be formed: carbon monoxide, carbon dioxide, hydrocarbons, aldehydes, ketones, acrolein and fatty acids. Temperature, air supply, and materials present will affect the amount formed of any of the potential combustion products.

FLASH POINT: > 650 ^{o}F (> 343 ^{o}C) **Method:** Setchkin

AUTOIGNITION TEMP: > 650 ^{o}F (> 343 ^{o}C)

SECTION 6: ACCIDENTAL RELEASE MEASURES

If product is not contaminated, scoop into clean containers for use. If product is contaminated, scoop into containers, and dispose appropriately.
In case of accidental spill or release, refer to Section 8, Personal Protective Equipment and General Hygiene Practices.

SECTION 7: HANDLING AND STORAGE

GENERAL MEASURES:
Store in a warehouse that is protected with a fire sprinkler system.
Store at temperatures below 60 º C (140 º F).
MATERIALS OR CONDITIONS TO AVOID:
Avoid storing product near incompatible materials. See MSDS Section 10.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

GENERAL HYGIENIC PRACTICES:
Avoid breathing fiber and dust.
Wash thoroughly after handling, and before eating, drinking or smoking.
RECOMMENDED EXPOSURE LIMITS:
This product is not considered to present an inhalation health hazard under reasonably anticipated conditions of use.
PERSONAL PROTECTIVE EQUIPMENT:
Safety glasses
WORK PRACTICES AND ENGINEERING CONTROLS:
Eyewash fountains and safety showers should be easily accessible.
Provide adequate ventilation.
PROTECTIVE MEASURES DURING REPAIR AND MAINTENANCE:
Keep area clean. Product will burn.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Volatile (Wt.), %:	< 3 % (water)	
Solubility in Water:	negligible, below 1%	
Specific Gravity:	1.0 – 1.3 g/cm^3	
Melting Point:	**Surface melting**	320 ^{O}F (160 ^{O}C)
	Complete melting	500 ^{O}F (260 ^{O}C)
Evaporation Rate:	negligible	
pH:	6.5 ± 1.0 at a concentration of 10% (made on the spin finish)	
Appearance:	textured and soft fibers	
Odor:	slight odor of spin finish	
Color:	various	

SECTION 10: STABILITY AND REACTIVITY

GENERAL STABILITY CONSIDERATIONS:
Stable at recommended handling and storage conditions.
INCOMPATIBLE MATERIALS:
Incompatible with: strong acids, bases, and oxidizing materials
CONDITIONS TO AVOID:
Excessive heat should be avoided. Small quantities of fumes are produced at about 435 ºF (225 ºC) . These fumes gradually increase until at above 572 º F (300 ºC) decomposition (thermal degradation and oxidative pyrolysis) takes place. Above 572 º F, the heat of decomposition may produce a rapid rise in temperature which accelerates the decomposition. Under these circumstances hazardous substances such as carbon monoxide, formaldehyde and acrolein can be evolved.
HAZARDOUS DECOMPOSITION PRODUCTS:
Carbon monoxide, acetic acid, carbon dioxide, hydrocarbons, aldehydes, ketones, acrolein and fatty acids may be formed during decomposition or burning.
HAZARDOUS POLYMERIZATION:
Will not occur under normal or recommended handling and storage conditions.

SECTION 11: TOXICOLOGICAL INFORMATION

REPORTED EFFECTS:
The skin and eye irritation effects of the spin finish have been examined with no harmful effects (according to OECD-guidelines no. 404 and 405).
CARCINOGENICITY INFORMATION:
Not listed as a carcinogen by NTP. Not regulated as a carcinogen by OSHA. Not evaluated by IARC.

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY:
The fibers are not associated with any ecological problems.
The fibers are not biodegradable.

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD:
Incineration in accordance with applicable regulations is the recommended disposal method. Mix waste with wood or paper waste aids to assure complete combustion. Disposal in a landfill in a permitted solid or hazardous waste facility, meeting technical regulatory requirements, is a suitable alternative.

SECTION 14: TRANSPORTATION INFORMATION

This product does not belong to dangerous goods according to transport regulations.

SECTION 15: REGULATORY INFORMATION

U.S. TSCA Status:
This product is considered to be an article by TSCA definition. All components are listed on the TSCA inventory.

SARA TITLE III

Sections 302 and 304:
This product is not an Extremely Hazardous Substance subject to reporting under 40 CFR 355.

Sections 311 and 312:
NHH: Not a health hazard
NPH: Not a physical hazard

Section 313:
This product does not contain any chemicals subject to reporting under Section 313 of Title III of the Superfund Amendments and Reauthorization Act and 40 CFR 372.

CERCLA:
This product does not contain any chemicals subject to reporting as a CERCLA Hazardous Substance under 40 CFR 302.4.

RCRA:
This product is not a hazardous waste as listed in 40 CFR 261.33. It does not exhibit any of the hazardous characteristics listed in 40 CFR 261, Subpart C.

CALIFORNIA SAFE WATER AND TOXIC ENFORCEMENT ACT OF 1986 (PROPOSITION 65):
This product does not contain any chemicals known to cause cancer or reproductive toxicity.

SECTION 16: OTHER INFORMATION

LIST OF ACRONYMS:

ACGIH: American Conference of Governmental Industrial Hygienists
AICS: Australian Inventory of Chemical Substances
AIHA WEEL: American National Standards Institute
C: Ceiling
CASRN: Chemical Abstracts Service Registry Number
CERCLA: Comprehensive Emergency Response, Compensation and Liability Act
DSL: Domestic Substances List (Canadian)
EINECS: European Inventory of Existing Commercial Chemical Substances
HMIS: Hazardous Materials Identification System
IARC: International Agency for Research on Cancer
MITI: Ministry of International Trade and Industry (Japanese)
N/A: Not Applicable
NDSL: Non-domestic Substances List (Canadian)
NOR: Not Otherwise Regulated
NTP: National Toxicology Program
OSHA: Occupational Safety and Health Administration
PEL: OSHA Permissible Exposure Limit
RCRA: Resource Conservation and Recovery Act
RQ: Reportable Quantity
SARA: Superfund Amendment Reauthorization Act
STEL: Short-Term Exposure Limit
TLV: Threshold Limit Values (registered trademark of ACGIH)
TPQ: Threshold Planning Quantity
TSCA: Toxic Substance Control Act
TWA: Time Weighted Average

The information and recommendations contained in this Material Safety Data Sheet have been complied from sources believed to be reliable and to represent the most reasonable current opinion on the subject when the MSDS was prepared. No warranty, guaranty or representation is made as to the correctness or sufficiency of the information. The user of this product must decide what safety measures are necessary to safely use this product, either alone or in combination with other products, and determine its environmental regulatory compliance obligations under any applicable federal or state laws.