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## SECTION 6: ACCIDENTAL RELEASE MEASURES

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Ensure cleanup is done only by trained personnel wearing appropriate personal protective equipment. Do not release runoff from fire control methods to sewers or waterways.

**Procedures in case of Accidental Release or Leakage:** Avoid contact with skin, eyes or clothing (See Section 8). Clean up material, put into a suitable container and dispose of properly (See Section 13).

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## SECTION 7: HANDLING & STORAGE

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<b>Handling:</b>	Handle properly to prevent the spread of fiberglass dust or fibers.
<b>Storage:</b>	Store in proper containers to prevent the spread of dusts and fibers. Low humidity levels will increase the spread of dusts and fibers.
<b>Precautions to be taken in Handling and Storage:</b>	Store in a cool, dry place. Maintain sealed against contamination from dirt and moisture. Keep away from food and drink. Aramid fibers or fabric will be degraded by ultraviolet sunlight and discolored by fluorescent lighting. Avoid inhalation of filament or dust particulates generated during process operation.
<b>Regulatory Requirements:</b>	Keep airborne dust and fiber concentrations below regulatory levels.

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## SECTION 8: EXPOSURE CONTROLS & PERSONAL PROTECTIVE EQUIPMENT

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**Eye/Face Protection:** Avoid eye and skin contact. Wear coverall goggles, as necessary, to prevent irritation, if airborne dust, fibers or particulate are present. Wear safety glasses with side shields, as necessary, if airborne dust, fibers or particulates are present when machining, grinding or sawing the cured product.

**Skin Protection:** Wear protective clothing such as a loose fitting, long sleeved shirt that covers to the base of the neck, long pants and gloves, as necessary, to prevent irritation. Skin irritation is known to occur primarily at pressure points such as around the neck, wrist, waist, and between fingers.

**Respiratory Protection:** Not ordinarily required. If sufficient dust, fibers or particulate are generated during use of the product or when machining, grinding or sawing the cured product, use a NIOSH approved dust respirator.

**Ventilation:** Use local exhaust sufficient to control dust, fibers or particulates generated. If exhaust ventilation is not available or is inadequate, use a NIOSH approved dust respirator.

**General Hygiene Recommendations:** Before eating, drinking, smoking or using toilet facilities, wash face and hands thoroughly with soap and water. Remove any contaminated clothing and launder before reuse. Use vacuum equipment to remove fibers, dust or particulates from clothing and work areas. Compressed air is not recommended.

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## SECTION 9: PHYSICAL & CHEMICAL PROPERTIES

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<b>Appearance and Odor</b>	.....Aramid®: Gold to Yellow Fibers. .....Technora®: Gold to Yellow Fibers ..... Spectra®: White Fibers ..... Dyneema®: White Fibers
<b>Melting Point (°F/°C)</b>	.....Aramid®: Does not melt, but will start to carbonize at around 800°F/427°C .....Technora®: Does not melt, but will start to carbonize at around 800°F/427°C .....Spectra®: 297°F/147°C .....Dyneema®: 144°F to 152°C
<b>Boiling Point (°F/°C)</b>	.....Dyneema®: Decomposes >300°C
<b>Specific Gravity (Water=1)</b>	.....Aramid®: 1.45 .....Technora®: 1390 kg/m <sup>3</sup> .....Spectra®: 0.97
<b>Density</b>	.....Dyneema®: 1.54 – 1.56

**pH of Undiluted Product** .....Not determined

**Volatile [Percent (%) by Weight]** .....Aramid®: 0-9, equilibrium moisture  
.....Technora®: Not determined  
.....Spectra®: Not determined  
.....Dyneema®: Not determined

**Percent (%) VOC**.....Same as the % Volatile Content

**Solubility in Water**.....Insoluble except for the finish as Greige

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## SECTION 10: STABILITY & REACTIVITY

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**Stability:** Stable under proper handling and storage conditions.

**Incompatible Materials:** **Aramid®:** Not Determined  
**Technora®:** Strong Oxidizing Agents  
**Spectra®:** Strong Oxidizing Agents  
**Dyneema®:** Strong Oxidizing Agents

**Products Evolved from Heat of Combustion or Decomposition:** The products of combustion and decomposition depend on other materials present in the fire and the actual conditions of the fire. Burning will produce the following, depending on the fiber, plus other unidentified gases and vapors that may be toxic. Avoid inhalation.  
**Aramid®:** Carbon and nitrogen oxides, water, ammonia, aldehydes, aliphatic and various hydrocarbons, organic compounds and small amounts of hydrogen cyanide.  
**Technora®:** Carbon Oxides, organic compound of low molecular and hydrogen, cyanide in low concentration.  
**Spectra®:** Carbon oxides and various oxidized and non-oxidized hydrocarbons.  
**Dyneema®:** Carbon Monoxide, carbon dioxide, (dense) black smoke, aldehydes, organic acids.

**Hazardous Polymerization:** Will not occur under proper conditions of use. This product, when heated rapidly or to an excessive temperature and/or in large mass or volume, may produce an uncontrolled exothermic reaction that may char and decompose the finish, if applicable, generating unidentified gases and vapors that may be toxic. Avoid inhalation.

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## SECTION 11: TOXICOLOGICAL INFORMATION

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**Component Toxicity Data:**

**Median Lethal Dose (Species):**

**Oral (ALD)...**Aramid®.....>7,600 mg/kg (Rat)

**Oral (LD50)...**Not Determined

**Inhalation (LC50)...**Not determined

**Dermal (LD50)...**Not determined

**Irritation Index, Estimation of Irritation (Species):**

**Skin...**Not Determined

**Eyes...**Not Determined

**Inhalation...**Not Determined

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## SECTION 12: ECOLOGICAL INFORMATION

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**Component Ecological Data:**

**Aramid® Fibers:** Essentially non-biodegradable. Do not leach, material toxic to flora or fauna.

**Aramid® Finishes:** Not inhibitory or toxic to microbes commonly found in biological treatment systems. Are biodegradable. None appear to enhance foaming. Discharge of scoured finishes should not result in increased effluent toxicity.

**Technora® Fibers and Finishes:** Fiber product (Polymer) is ecologically safe.

**Spectra® Fibers and Finishes:** No ecological data has been determined.

**Dyneema® Fibers and Finishes:** Is not biodegradable and not toxic to aquatic organisms.

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**SECTION 13: DISPOSAL CONSIDERATIONS**

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**Comply with Federal, State and Local regulation concerning health and environment when disposing of materials.**

**Waste Disposal Methods:** Material for disposal should be placed in appropriate sealed containers to avoid potential human and environmental exposure. It is the responsibility of the generator to comply with all federal, state, provincial; and local laws and regulations. We recommend that you contact an appropriate waste disposal contractor and environmental agency for relevant laws and regulations. Under the U.S. Resource Conservation and Recovery Act (RCRA), it is the responsibility of the user of the product to determine at the time of disposal, whether the product meets relevant waste classification.

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**SECTION 14: TRANSPORT INFORMATION**

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**DOT:**

**Proper Shipping Name.....**Not Regulated

**Hazard Class.....**Not Regulated

**Identification Number.....**Not Regulated

**Packing Group.....**Not Regulated

**Label Required.....**None

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**SECTION 15: REGULATORY INFORMATION**

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**SARA Title III:** Section 302/304 Extremely Hazardous Substance: None  
Section 311 Hazardous Categorization: None  
Section 313 Toxic Chemicals: None

**CERCLA Section 102**

**(A) Hazardous Substance:** None

**RCRA Information:**

Currently, this product is not listed in federal hazardous waste regulations 40 CFR, Part 261.33, paragraphs (e) or (f), i.e. chemical products that are considered hazardous if they become wastes. State or local hazardous waste regulations may also apply if they are different from the federal regulation. It is the responsibility of the user of the product to determine at the time if disposal, whether the product meets relevant waste classification and to assure proper disposal.

**WHMIS (Canada):**

Classification: None

"This product has been classified in accordance with hazard criteria of the "Controlled Products Regulations" and this SDS contains all the information required by the "Controlled Products Regulations."

**Ingredient Disclosure List:**

None

**U.S., EPA. TSCA Information:**

This product is an article as defined by TSCA and is not required to be listed in the TSCA Inventory.

**Ozone Depletion Information:**

This product does not contain or is not manufactured with ozone depleting substances as identified in Title VI, Clean Air Act "Stratospheric Ozone Protection" and the regulations set forth in 40CFR, Part 82.

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**SECTION 16: OTHER INFORMATION**

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**Explanation and Disclaimer:** Wherever such words or phrases as "hazardous," "toxic," "carcinogen," etc. appear herein, they are used as defined or described under state employee right-to-know laws, Federal OSHA laws or the direct sources for these laws such as the International Agency for Research on Cancer (IARC), the National Toxicology Program (NTP), etc. The use of such words or phrases should not be taken to mean that we deem or imply any substance or exposure to be toxic, hazardous or otherwise harmful.

Any exposure can only be understood within the entire context of its occurrence, which includes such factors as the substance's characteristics as defined in the SDS, amount and duration of exposures, other chemicals present and pre-existing individual differences in response to the exposure.

The data provided in this SDS is based on the information received from our raw material suppliers and other sources believed to be reliable. We are supplying you this data solely in compliance with the Federal OSHA Hazard Communication Standard, 29 CFR 1910.1200 and other Federal and state laws as described in Section 15: Regulatory Information.

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