



# CEREX Advanced Fabrics, Inc.

## Material Safety Data Sheet

### 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: NYLON 6,6 SPUNBOND FABRIC:  
CEREX<sup>®</sup>, PBN-II<sup>®</sup>, Orion<sup>®</sup>, SpectraMax<sup>™</sup>, Spectralon<sup>®</sup>, VIBRA<sup>®</sup>tex<sup>®</sup> spunbond nylon fabrics

*Note: In its fabric state, our spunbond nylon 6,6 family of products is defined as an "article" under OSHA's CFR 1910.1200 (b) (6) (iv). As such no MSDS is required since it does not contain any hazardous substances, nor contribute to any exposure which might compromise the protection of your employees or your customers. This being the case, this MSDS is based entirely on the MSDS information from the nylon 6,6 supplier for the raw material.*

Date: 06/30/2005

Company Information:

**United States:**

CEREX Advanced Fabrics, Inc.  
610 Chemstrand Road  
Cantonment, FL 32533

Emergency telephone: 24hr assistance is not available. Please contact non-emergency telephone during normal business hours: 8:00 a.m. – 4:30 p.m. CST

Non-Emergency telephone: 1-850-968-0100

Website: www.cerex.com

### 2. HAZARDS IDENTIFICATION

#### EMERGENCY OVERVIEW

Form: Nonwoven fabric  
Color: Natural is standard (however, fabric is available in a variety of custom colors)  
Odor: odorless

#### WARNING STATEMENTS

No significant hazards associated with this material

#### POTENTIAL HEALTH EFFECTS

Likely routes of exposure: Eye and skin contact  
Inhalation

Eye contact: No more than slightly irritating to eyes  
Dust from excessive abrasion may cause eye irritation as would any foreign material

Skin contact: Not irritating to skin. No more than slightly toxic if absorbed

Inhalation: No information available.

Ingestion: No more than slightly toxic if swallowed. Significant adverse health effects are not expected to develop if only small amounts (less than a mouthful) are swallowed.

Refer to Section 11 for toxicological information.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Components</u>	<u>CAS No.</u>	<u>Average Concentration</u>	<u>Concentration Range</u>	<u>Units</u>
adipic acid – hexamethylenediamine resin (nylon 6,6)	32131-17-2		>=92.0 – <=100.0	%
polycaprolactum (nylon 6)	25038-54-4		>=0.0 – <=6.0	%
titanium dioxide (colorant)	1317-70-0		>=0.0 – <=2.0	%

This product may contain other copolymers, color additives, heat stabilizers, and/or performance additives. Under normal use conditions, these additives are contained within the polymer matrix and occupational exposures are expected to be minimal. Residual hydrochloric acid (HCl) may be present in chemically bonded fabrics but is present at less than 0.15%.

### 4. FIRST AID MEASURES

If in eyes:	Immediate first aid is not likely to be required. This material can be removed with water.
If on skin:	Immediate first aid is not likely to be required. This material can be removed with water.
If inhaled:	Immediate first aid is not likely to be required. If symptoms occur, remove to fresh air. Remove material from eyes, skin and clothing.
If swallowed:	Immediate first aid is not likely to be required. A physician or Poison Control Center can be contacted for advice.

### 5. FIRE FIGHTING MEASURES

Hazardous products of combustion:	carbon monoxide (CO); carbon dioxide; hydrocarbons; hydrogen cyanide (HCN); soot; smoke; nitrogen oxides (NOx)
Extinguishing media:	Water spray, foam, dry chemical, or carbon dioxide
Unusual fire and explosion hazards:	Dust generated during excessive abrasion may form explosive mixtures in air. Nylon 6,6 spunbond fabric is a combustible thermoplastic material. When ignited, nylon may melt, drip, and produce potentially hazardous combustion products typical of burning organic material.
Fire fighting equipment:	Firefighters, and others exposed, wear self-contained breathing apparatus. Equipment should be thoroughly decontaminated after use.
Miscellaneous advice:	Dust generated during excessive abrasion may form explosive mixtures in air.

## 6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Use personal protection recommended in section 8.

Environmental precautions: None

Methods of cleaning up: In case of spill, collect fabric and remove for disposal per applicable regulations.

## 7. HANDLING AND STORAGE

### Handling

Handle in accordance with good industrial hygiene and safety practices. These practices include avoiding unnecessary exposure and removal of material from eyes, skin and clothing.

### Storage:

General: Stable under normal conditions of handling and storage

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Airborne exposure limits:

NYLON 6/6 SPUNBOND FABRIC

OSHA and/or ACGIH have not established specific exposure limits for this material. However, they have established limits for particulates not otherwise regulated (PNOR) and particulates not otherwise classified (PNOC) respectively, which are the least stringent exposure limits applicable to dusts (potentially formed from excessive abrasion).

OSHA PEL: 15 mg/m<sup>3</sup> (total dust) 8-hr TWA  
OSHA PEL: 5 mg/m<sup>3</sup> (respirable) 8-hr TWA  
ACGIH TLV: 10mg/m<sup>3</sup> (total dust) 8-hr TWA  
ACGIH TLV: 3 mg/m<sup>3</sup> (respirable) 8-hr TWA

Eye protection: Does not cause significant eye irritation or eye toxicity requiring special protection. Use good industrial practice to avoid eye contact.

Hand protection: Although this product does not present a significant skin concern, minimize skin contamination by following good industrial practice.

Body protection: Although this product does not present a significant skin concern, minimize skin contamination by following good industrial practice. Wash contaminated skin thoroughly after handling.

Respiratory protection: Avoid breathing any dust generated from abraded material. Use approved respiratory protection equipment when airborne exposure limits are exceeded. Consult the respirator manufacturer to determine the appropriate type of equipment for a given application. Observe respirator use limitations specified by the manufacturer.

Ventilation: Provide natural or mechanical ventilation to minimize exposure. If practical, use local mechanical exhaust ventilation at sources of air contamination such as processing equipment.

Components referred to herein may be regulated by specific Canadian or other international governing bodies. Please refer to exposure limits legislated for the province in which the substance will be used.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Flash point:	305 – 311 C	ASTM D-1929-77
Auto-ignition temperature:	485 C	ASTM D-1929-77
Specific gravity:	1.14	
Melting point:	254 – 266 C	
Water solubility:	slightly soluble	
Solubility in other solvents:	formic acid, phenol	
VOC Content:	< 1%	

NOTE: These physical data are typical values based on material tested but may vary from sample to sample. Typical values should not be construed as a guaranteed analysis of any specific lot or as specifications for the product.

## 10. STABILITY AND REACTIVITY

Conditions to avoid:	None known
Material to avoid:	None known
Hazardous reactions:	Hazardous polymerization does not occur.
Decomposition:	Decomposition occurs above temperature listed below: Decomposition temperature: > 300 C
Hazardous decomposition products:	carbon monoxide (CO); carbon dioxide; hydrocarbons; hydrogen cyanide (HCN); nitrogen oxides (NOx)

## 11. TOXICOLOGICAL INFORMATION

CEREX Advanced Fabrics, Inc. has NOT conducted cytotoxicity studies on this material. However, these products have undergone extensive skin contact testing from Oeko-tex and are certified to Oeko-tex Standard 100. This is a European Textile Testing standard that certifies that our products have been tested to be ecologically safe and do not pose any health risk to consumer - "safe enough for babies".

## 12. ECOLOGICAL INFORMATION

CEREX Advanced Fabrics, Inc. has not conducted environmental toxicity or biodegradation studies with this material.

### 13. DISPOSAL CONSIDERATIONS

US EPA RCRA Status: This material when discarded is not a hazardous waste as that term is identified by the Resource, Conservation and Recovery Act (RCRA), 40 CFR 261.

Disposal considerations: Incineration  
Recycle  
Landfill

Miscellaneous advice: Local, state, provincial, and national disposal regulations may be more or less stringent. Consult your attorney or appropriate regulatory officials for information on such disposal.

### 14. TRANSPORT INFORMATION

The data provided in this section is for information only. Please apply the appropriate regulations to properly classify your shipment for transportation:

#### US DOT

Other: Not regulated for transport.

#### Canadian TDG

Other: Not regulated for transport.

#### ICAO/IATA Class

Other: Not regulated for transport.

### 15. REGULATORY INFORMATION

Major components are in compliance with the following inventories: U.S. TSCA, Canadian DSL, EU ELINCS, Japanese ENCS, Australian AICS, Korean, Phillipine PICCS, Chinese

Other chemical inventory information: The polymer contained within this product is exempt from listing in the European Inventory.

Canadian WHMIS classification: Not Controlled

SARA Hazard Notification:

Hazard Categories Under Title III Rules (40 CFR 370): Not applicable

Section 302 Extremely Hazardous Substances: Not applicable

Section 313 Toxic Chemical(s): Not applicable

CERCLA Reportable Quantity: Not applicable

Refer to Section 11 for OSHA/HPA Hazardous Chemical(s) and Section 13 for RCRA classification.

## 16. OTHER INFORMATION

Product use: Synthetic spunbond fabric

Reason for revision: New MSDS created to cover all spunbond fabrics offered

Other information: This product may contain other copolymers, color additives, heat stabilizers, and/or performance additives. Under normal use conditions, these additives are contained within the polymer matrix and occupational exposures are expected to be minimal.

	Health	Fire	Reactivity	Additional Info
Suggested NFPA Rating	1	0	0	--
Suggested HMIS Rating	1	0	0	A

Prepared by CEREX Advanced Fabrics, Inc.. Please consult  
CEREX Advanced Fabrics, Inc. @ 850-968-0100 if further information is needed.  
[www.cerex.com](http://www.cerex.com)

TM, ® is a registered trademark of CEREX Advanced Fabrics, Inc..

Although the information and recommendations set forth herein (hereinafter "Information") are presented in good faith and believed to be correct as of the date hereof, CEREX Advanced Fabrics, Inc. makes no representations as to the completeness of accuracy thereof. Information is supplied upon the condition that the persons receiving same will make their own determination as to its suitability for their purposes prior to use. In no event will CEREX Advanced Fabrics, Inc. be responsible for damages of any nature whatsoever resulting from the use of or reliance upon Information. NO REPRESENTATION OR WARRANTIES, EITHER EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OF ANY OTHER NATURE ARE MADE HEREUNDER WITH RESPECT TO INFORMATION OR THE PRODUCT TO WHICH INFORMATION REFERS.