



Safety Data Sheet

Voluntary product information following the Safety Data Sheet format

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

Identification

Product name: NYLON 6,6 SPUNBOND FABRIC:
Cerex®, PBN-II®, Orion®, Oil Shark®,
Vibratex® and Spectralon® spunbond nylon fabrics

Reference Number 0001

Date 17.07.2019

Use of the substance or preparation

Polyamide solid (*in the form of nonwoven fabric*)

Company Information:

Cerex Advanced Fabrics, Inc.
610 Chemstrand Road
Cantonment, Florida 32533
USA

Website: www.cerex.com

Emergency and Non-Emergency Number - +800-572-3739, 8:00 AM – 3:30 PM Central Standard Time
United States of America

2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 as amended

This substance does not meet the criteria for classification according to Regulation (EC) 1272/2008 as amended.

2.2. Label elements

Label according to Regulation (EC) No. 1272/2008 as amended

Hazard pictograms	None.
Signal word	None.
Hazard statements	Not assigned.

Precautionary statements

Prevention	Not assigned.
Response	Not assigned.
Storage	Not assigned.
Disposal	Not assigned.

Supplemental label information None.

2.3. Other hazards Dust may form explosive mixture in air.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Material name: NYLON 6,6 SPUNBOND FABRIC

Original date: 25-July-2019 Issue date: 25-July-2019 SDS EU

3.1. Substances

Chemical name	%	CAS No./ EC No.	Reach Registration No.	Index No.
adipic acid - hexamethylenediamine resin (nylon 6/6)	>98%	32131-17-2 Not Assigned	-	-

Classification: -

List of abbreviations and symbols that may be used above

CLP: Regulation No. 1272/2008.

4. FIRST AID MEASURES

4.1. Description of first aid measures.

Eye contact	Immediate first aid is not likely to be required.
Skin contact	Immediate first aid is not likely to be required. If splashed by molten material, cool quickly with water and seek medical aid : do not pull off from skin.
Inhalation	Immediate first aid is not likely to be required. If symptoms occur, remove to fresh air. Remove material from eyes, skin and clothing.
Ingestion	Immediate first aid is not likely to be required. A physician or Poison Control Center can be contacted for advice.

5. FIRE FIGHTING MEASURES

5.1. Extinguishing media	Water spray, foam, dry chemical, or carbon dioxide
5.2. Exposure hazards	None known
5.3. Protective equipment	Firefighters, and others exposed, wear self-contained breathing apparatus. Equipment should be thoroughly decontaminated after use. Combustion products: carbon monoxide (CO), carbon dioxide, ammonia (NH ₃), hydrogen cyanide (HCN), nitrogen oxides (NO _x)

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions	Use personal protection recommended in section 8. Product may cause a slip hazard.
6.2. Environmental precautions	None indicated

7. HANDLING AND STORAGE

7.1. Precautions for safe Handling

Minimize dust generation and accumulation. Avoid significant deposits of material, especially on horizontal surfaces, which may become airborne and form combustible dust clouds and may contribute to secondary explosions. Combustible dust clouds may be created where operations produce fine material (dust). Wash hands after handling and before eating. When using, do not eat, drink or smoke. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices. Take measures to prevent the build up of electrostatic charge. Molten material can cause burns. Handle molten material with care. When handling hot material, use heat resistant gloves.

7.2. Conditions for safe storage, including any incompatibilities

Keep away from heat, sparks, and flame. Keep this material away from food, drink and animal feed. Dry powders can build static electricity charges when subjected to the friction of transfer and mixing operations. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres. Keep tightly closed in a dry, cool and well-ventilated place. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Store away from incompatible materials (see Section 10 of the SDS).

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Occupational exposure limits

No exposure limits noted for ingredient(s).

Biological limit values

No biological exposure limits noted for the ingredient(s).

Recommended monitoring procedures

Not available.

Derived no-effect level (DNEL)

Not available.

Predicted no effect concentrations (PNECs)

Not available.

8.2. Exposure controls

Appropriate engineering controls

Ventilation should be sufficient to effectively remove and prevent buildup of any dusts or fumes that may be generated during handling or thermal processing.

Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e., there is no leakage from the equipment).

Keep formation of airborne dusts to a minimum.

Individual protection measures, such as personal protective equipment

General information

Wear suitable protective equipment.

Eye/face protection

Avoid contact with eyes. Wear safety glasses with side shields (or goggles).

Skin protection

- Hand protection

For molten material use heat resistant gloves.

- Other

Wear suitable protective clothing.

Respiratory protection

Not normally needed. Avoid breathing dust.

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.

Environmental exposure controls

Should not be released into the environment.

ACGIH TLV: 3mg/m³ (respirable) 8-hr TWA

9. PHYSICAL AND CHEMICAL PROPERTIES

General information

9.1. Information on basic physical and chemical properties

Appearance	Granular. Flakes Chips. Pellets.
Physical state	Solid.
Form	Fabric Solid.
Colour	Cream – tan, blue, black orange

Odour	Slight to none.
Odour threshold	Not available.
pH	Not applicable
Melting point/freezing point	235 - 265 °C (455 - 509 °F)
Initial boiling point and boiling range	Not determined

Flash point 4 20 °C (788 °F) ASTM D1929

Dust explosion properties: If this material is milled or the process generates fines or dust, the fines or dust could form an explosive mixture if dispersed in a sufficient quantity of air.

Evaporation rate	Not applicable
Flammability (solid, gas)	Not available.
Vapour pressure	Not available.
Vapour density	Not available.
Relative density (liquid)	Not available.
Solubility(ies)	
Solubility (water)	0 %
Solubility (other)	Not available.
Partition coefficient (n-octanol/water)	Not available.

Auto-ignition temperature	455 °C (851 °F) ASTM D1929
Decomposition temperature	50% at 420°C; 96% at 900°C
Viscosity	Not available.
Explosive properties	Not available.
Oxidising properties	Not available.

9.2. Other information	None known.
Chemical family	Polyamide
Specific gravity	>1

10. STABILITY AND REACTIVITY

10.1. Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability Material is stable under normal conditions.

10.3. Possibility of hazardous reactions Not expected to occur.

10.4. Conditions to avoid: Avoid heat, sparks, open flames and other ignition sources. Minimise dust generation and accumulation.

10.5. Incompatible materials Strong oxidising agents.

10.6. Hazardous decomposition products Irritating and/or toxic fumes and gases may be emitted upon the products decomposition. Nitrogen oxides (NOx). Hydrogen cyanide (hydrocyanic acid). Carbon oxides. Ammonia gas may be liberated at high temperatures above 300 °C

11. TOXICOLOGICAL INFORMATION

Cerex Advanced Fabrics has not conducted toxicity studies on this material and no toxicological information was obtained in a reasonably extensive search of the available scientific literature. Results of single exposure (acute) toxicity studies conducted on similar materials indicate that these products are practically nontoxic orally (rats) and after skin application (rabbits). These products are practically non irritating to rabbit skin and are practically non irritating to slightly irritating to rabbit eyes. No adverse effects noted following repeated oral administration.

11.1. Information on toxicological effects

Acute toxicity	Based on available data, the classification criteria are not met.
Skin corrosion/irritation	Based on available data, the classification criteria are not met.
Serious eye damage/eye irritation	Based on available data, the classification criteria are not met.
Respiratory sensitisation	Based on available data, the classification criteria are not met.
Skin sensitisation	Based on available data, the classification criteria are not met.
Germ cell mutagenicity	Based on available data, the classification criteria are not met.
Carcinogenicity	Based on available data, the classification criteria are not met.
Reproductive toxicity	Based on available data, the classification criteria are not met.
Specific target organ toxicity - single exposure	Based on available data, the classification criteria are not met.
Specific target organ toxicity - repeated exposure	Based on available data, the classification criteria are not met.
Aspiration hazard	Based on available data, the classification criteria are not met.
Mixture versus substance information	Not available.
Other information	Dust causes irritation to the eyes, skin and mucous membranes and may lead to toxic lung oedemas. Occupational interstitial lung disease (ILD) has been observed at very high dust levels.

12. ECOLOGICAL INFORMATION

12.1. Toxicity	This product is not expected to produce significant ecotoxicity upon exposure to aquatic organisms and aquatic systems.
12.2. Persistence and degradability	No data is available on the degradability of this product.
12.3. Bioaccumulative potential	Bioaccumulation is unlikely.
Partition coefficient n-octanol/water (log Kow)	Not available
Bioconcentration factor (BCF)	Not available.
12.4. Mobility in soil	No data available.
12.5. Results of PBT and vPvB assessment	Not available.
12.6. Other adverse effects	None known.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Disposal considerations Incineration, Recycle,
All local and national regulations should be followed.

EU waste code Dispose of contents/container (in accordance with related regulations).

14. TRANSPORT INFORMATION

ADR	Not regulated as dangerous goods.
RID	Not regulated as dangerous goods.
ADN	Not regulated as dangerous goods.
IATA	Not regulated as dangerous goods.
IMDG	Not regulated as dangerous goods.

15. REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EU regulations

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended

Not listed.

Regulation (EC) No. 850/2004 on persistent organic pollutants, Annex I

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended

Not listed.

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry

Not listed.

Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA

Authorisations

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended

Not listed.

Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended

Not listed.

Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work

Not listed.

Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breastfeeding

Not listed.

Other EU regulations

Directive 2012/18/EU on major accident hazards involving dangerous substances

Not listed.

Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

Not listed.

Directive 94/33/EC on the protection of young people at work

Not listed.

Other regulations

The product does not need to be labelled in accordance with EC directives or respective national laws

National regulations	Not available.
Germany	
Water Hazard Class	Non-hazardous to water
15.2. Chemical safety assessment	Not available.

16. OTHER INFORMATION

Prepared by the Cerex Advanced Fabrics Product Stewardship Representative. Please consult Cerex Advanced Fabrics @ 1-850-937-3346 if further information is needed.

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

List of abbreviations

IARC = International Agency for Research on Cancer.
ACGIH = American Conference of Governmental Industrial Hygienists.
OSHA = Occupational Safety and Health Administration.
NTP = National Toxicology Program.
CAS = Chemical Abstract Service
TWA = Time Weighted Average
SDS = Safety Data Sheet
TLV = Threshold Limit Value.
NFPA = National Fire Protection Association.
HMIS = Hazardous Material Information System.

References	Internal assessments, testing and research. Thompson Micromedex, Database, 2006. Hazardous Substance Data Bank, Database, 2006.
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Information on evaluation method leading to the classification of mixture	The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.
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Full text of any H-statements not written out in full under Sections 2 to 15	None.
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Revision information	Product and Company Identification: Product and Company Identification Composition / Information on Ingredients: Disclosure Overrides SECTION 3: Composition/information on ingredients: Composition comments HazReg Data: International Inventories
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Training information Issued by	Not available. Cerex Advanced Fabrics Product Stewardship
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This Safety Data Sheet ("SDS") contains selected information about a specific Cerex Advanced Fabrics product or group of products. It relates only to the identified product and any identified uses and is based on information available as of the date hereof. Additional information may be needed to evaluate

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R-phrases

Number format: ", " used as decimal separator.

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