

Braided Expandable sleeving

3066000



Date: August 7, 2006. MSDS #: GP0001

MATERIAL SAFETY DATA SHEET

ISO 9001:2000 REGISTERED

Manufacturer's Name: Delfingen US-New York

Phone Number: 716-215-0300

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SECTION I - PRODUCT IDENTIFICATION

Product Description: Trade Name: NU-GUARD G. General purpose braided polyester.

SECTION II - INGREDIENTS**Ingredient Name****CAS#****Exposure limit(s)**

The products listed above are articles as so defined by the OSHA Hazard Communication Standard at 29CFR 1910.1200. Each has an end-use that is dependent upon its shape and design and will not release or otherwise result in exposure to hazardous chemicals under normal conditions of use.

Heating the fibers may volatilize the residual moisture and surface finish.

3.0mg/m TWA
(Hoechst Celanese)

Thermal decomposition of fluoro-polymer products takes place at temperatures over 315 degrees C (599 degrees F) and will generate hydrogen fluoride (HF).

3 ppm TWA (OSHA)
3 ppm ceiling (ACGIH)**SECTION III - HAZARD IDENTIFICATION**

APPEARANCE AND ODOR: Plastic monofilaments in a variety of colors.

Under normal conditions of use, this product is not expected to create any unusual emergency hazards.

Organic monofilaments can burn if exposed to flame. Decomposition products generated from molten polymer can autoignite. Combustion products will be comprised of compounds of carbon, hydrogen and oxygen. The exact composition will depend on the condition of combustion.

Thermal decomposition of fluoro-polymer products takes place at temperatures over 315 degrees C (599 degrees F) and will generate hydrogen fluoride (HF) which is corrosive and causes burns on contact with skin and other tissue.

Polyesters can burn if exposed to flame. Molten polymer generates small amounts of volatile degradation products (off-gases), one of which is acetaldehyde. Acetaldehyde vapors form explosive mixtures with air that can spontaneously ignite (autoignite) at temperatures above 347 degrees F (175 degrees C).

In the event of fire, use normal fire fighting procedures to prevent inhalation of smoke and gases.

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Potential Health Effects**Summary:**

The products listed above are articles as so defined by the OSHA Hazard Communication standard at 29CFR 1910.1200. Each has an end-use that is dependant upon its shape and design, and will not release or otherwise result in exposure to hazardous chemicals under normal conditions of use. Consequently, no health effects from working with these products are expected to occur. However, exposure to chemical substances may occur as a result of processing these fibers. Processing may release and aerosolize particulates and /or residual moisture. Heating the fibers may produce a chemical change which may produce irritation to eyes and respiratory tract.

Thermal decomposition of fluoro-polymer products takes place at temperatures over 315 degrees C (599 degrees F) and will generate hydrogen fluoride (HF) which is corrosive and causes burns on contact with skin and other tissue.

Acute (Short-term) Health Effects:

None known.

Chronic (Long-term) Health Effects:

None known.

Target Organs:

None.

Primary Routes of Entry (Exposure):

None.

Symptoms of Overexposure**Inhalation:**

Not applicable.

Skin

Not applicable.

Absorption:

Not applicable.

Ingestion:

Not applicable.

Eye:

Not applicable.

SECTION IV – FIRST AID MEASURES**Inhalation:**

Not applicable.

Skin

Not applicable.

Absorption:

Not applicable.

Ingestion:

Not applicable.

Eye:

Not applicable.

SECTION V – FIRE FIGHTING MEASURES**Summary:**

No special procedures are expected to be necessary for this product. Normal fire fighting procedures should be followed to avoid inhalation of smoke and gas.

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Unusual Fire/Explosion Hazards:

Organic monofilaments can burn if exposed to flame. Decomposition products generated from molten polymer can autoignite. Combustion products will be comprised of compounds of carbon, hydrogen, and oxygen. The exact composition will depend on the conditions of combustion.

Polyesters can burn if exposed to flame. Molten polymer generates small amounts of volatile degradation products (off-gases), one of which is acetaldehyde. Acetaldehyde vapors form explosive mixtures with air that can spontaneously ignite (auto-ignite) at temperatures above 347 degrees F (175 degrees C). There is no potential for fire or explosion.

Hazardous Combustion Products:

The polymer will burn if exposed to flame. Combustion products will be comprised of compounds of carbon, hydrogen, and oxygen and possibly fluorine depending on the product. Small amounts of hydrogen fluoride gas may be given off during the burning or thermal decomposition of fluoro-polymer products.

Flammable Properties and Explosive Limits:

Flash Point: Not applicable

FP Test Method: Not applicable

Flame Classification: Not applicable

Flame Propagation: Not applicable

Lower Explosive Limit (LEL): Not applicable

Upper Explosive Limit (UEL): Not applicable

Autoignition Temperature: Not applicable

Decomposition Temperature: Not applicable

SECTION VI - ACCIDENTAL SPILL/RELEASE MEASURES**Containment Procedures:**

Pick up large pieces

Disposal:

Wastes are not hazardous as defined by the Resource Conservation and Recovery Act (RCRA:40 CFR 261). Comply with state and local regulations for disposal of solid wastes. If you are unsure of the regulations, contact your local Public Health Department, or the local offices of the Environmental Protection Agency (EPA).

SECTION VII - HANDLING AND STORAGE**Storage Handling:**

Customary personal hygiene measures, such as washing hands after working with these products are recommended.

Conditions to Avoid:

No special procedures are required for handling or storage of these products.

SECTION VIII - EXPOSURE CONTROL/PERSONAL PROTECTION**Summary:**

No special protective measures are necessary for use of these products in that they are articles, and under normal conditions of use they are not expected to release or otherwise result in exposure to a hazardous chemical.

Eye:

Not required.

Skin:

Not required.

Respiratory:

Respiratory protection is not required when using this product. However, exposure to chemical substances may occur as a result of processing these fibers. Use a NIOSH-approved respirator to protect against nuisance dust, gases and mists.

Ventilation:

Local exhaust ventilation should be provided at areas of heating to remove airborne gases and mists.

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SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point (degrees F/C)	Not determined.
Evaporation Rate	Not applicable
Melting Point	Not applicable
pH	Not applicable
Saturation In air	Not applicable
Solids content	Not applicable
Specific Gravity	Variable
Vapor Density (Air=1)	Not applicable
Vapor Pressure	Not applicable
Viscosity	Not applicable
VOC's (g/liter)	Not applicable
Volatile by Volume	0
Water Solubility	Nil

SECTION X - STABILITY AND REACTIVITY

Product is stable. Hazardous polymerization will not occur.

Reactivity:

This product is not reactive.

Hazardous Decomposition Products:

The polymer will burn if exposed to flame. Combustion products will be comprised with compounds of carbon, hydrogen, oxygen and possibly fluorine depending on product. Small amounts of hydrogen fluoride gas may be given off during burning or thermal decomposition of fluoro-polymer products.

Combustion products will be comprised of compounds of carbon, hydrogen, and oxygen. The exact composition will depend on the conditions of combustion.

SECTION XI - TOXICOLOGICAL AND EPIDEMIOLOGICAL DATA

This product has not been tested as a separate entity. Therefore, the hazards must be evaluated on the basis of individual ingredients, and those hazards must be assumed to be additive in the absence of complete information. The hazards described in this document have been evaluated on a threshold of 1.0% for all hazardous ingredients and 0.1% for all carcinogens.

Acute Effects:

None known.

Toxicity (LD50):

The toxicity for this product has not been determined.

Chronic Effects:

None known

References:

John Manville, material safety data sheet No. 2203-1.0 PO Box 5108, Denver, CO 80217-5108, 5/11/00

SECTION XII- ECOLOGICAL INFORMATION**Ecotoxicity:**

This product has not been tested.

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SECTION XIII- DISPOSAL CONSIDERATIONS**Summary:**

Wastes are not hazardous as defined by the Resource Conservation and Recovery Act (RCRA; 40 CFR 261). Comply with state and local regulations for disposal of solid wastes. If you are unsure of the regulations, contact your local Public Health Department, or the local offices of the Environmental Protection Agency (EPA).

SECTION XIV -TRANSPORTATION INFORMATION**Transportation Summary:**

This product is not regulated as a hazardous material for transport.

SECTION XV - REGULATORY INFORMATION**U.S. REGULATIONS:****Federal Regulations:**

The Occupational Safety and Health Administration (OSHA), National Toxicology Program (NTP), International Agency for Research on Cancer (IARC), and American Conference of Governmental Industrial Hygienists (ACGIH) have not classified this product as a carcinogen.

Environmental Regulations:

Component	CAS#	Percent	SARA 313	SARA 302 TPO (lbs)	CERCLA	CERCLA (RO) (lbs)
Hydrogen Fluoride	7664-39-3		Yes	1000	Yes	1000

Toxic Substances Control Act Inventory (TSCA 8 (b)):

This product and its components are listed.

INTERNATIONAL REGULATIONS:**Canada Environmental Protection Act Domestic Substance List (Section 25(1) DSL):**

This product and its components are listed.

This data is offered in good faith as typical values and not as a product specification. No warranty, either expressed or implied is hereby made. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable. However, each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate.