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DuPont
Material Safety Data Sheet

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TF0029

NYLON POLYAMIDE FIBER (STAPLE AND YARN)

Revised 23-OCT-1990

Printed 5-NOV-1997

CHEMICAL PRODUCT/COMPANY IDENTIFICATION

Company Identification

MANUFACTURER/DISTRIBUTOR

DuPont
1007 Market Street
Wilmington, DE 19898

PHONE NUMBERS

Product Information : 1-800-441-7515
Transport Emergency : CHEMTREC 1-800-424-9300
Medical Emergency : 1-800-441-3637

COMPOSITION/INFORMATION ON INGREDIENTS

Components

Material	CAS Number	%
Titanium Dioxide (TiO2)	13463672	<5

HAZARDS IDENTIFICATION

Potential Health Effects

Routes of entry, inhalation. There is a possibility for certain hazards to result from the processing of the product. Although we cannot know every conceivable processing condition we feel you should be aware of this potential in general.

This product may contain up to one tenth of one percent of a fluorinated antisoil compound whose chemical identity is proprietary. The antisoil material in its pure form has been shown in acute animal inhalation studies to be toxic as a respirable particulate. Although extremely unlikely, if there is potential for this material to be aerosolized in a respirable form, we recommend an airborne exposure limit of 0.06mg total fluorine as respirable particulate/m3 as an 8-hour time weighted average (TWA).

This product may contain up to 5% titanium dioxide (TiO₂) CAS. No. 13463-67-2 as a delustrant. Animal studies have shown a low incidence of lung tumors in some rats exposed by inhalation to a massive airborne level of pure TiO₂ dust (250mg/m³) for their lifetimes. No pathological or toxicologically significant effects or clinical signs of

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(HAZARDS IDENTIFICATION - Continued)

toxicity were observed at any of the lower test levels (50 and 10mg/m³). We do not believe pure TiO₂ presents a significant hazard if airborne concentrations are controlled to a reasonable level. We have concluded the American Conference of Governmental Industrial Hygienists (ACGIH) TLV of 10mg TiO₂/m³ as total dust and 5mg TiO₂/m³ respirable dust, as an 8-hour TWA for airborne exposures will provide adequate protection of employees.

This product may contain up to three percent fiber lubricants, typically consisting of various formulations of natural oils such as coconut and peanut oils, esters, oleates, palmitates and stearates. These lubricating oils are toxicologically evaluated prior to commercialization and have been found to be generally of a low order of acute oral and inhalation toxicity in animals and dermal toxicity in humans and do not present a significant health hazard in their normal handling and use. If in processing there is a potential to generate airborne concentrations of these oils as a mist, we recommend an airborne exposure limit of 5mg as particulate/m³ as an 8-hour TWA.

If heated to elevated temperatures (200-250 deg C) during processing, these lubricating oils can degrade and generate off gases which contain very small amounts of such chemicals as formaldehyde, ethanol, methanol, acetic acid, acetone, etc. The exact chemical composition of these gases will, of course, depend on the conditions of heating, (temperature, duration, availability of oxygen). In our experience we are not aware of chemicals such as these reaching concentrations that present a serious health hazard. However, information on the toxic effects of these and other chemicals can be found in the most recent edition of the ACGIH Documentation of Threshold Limit Values.

Carcinogenicity Information

None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, OSHA or ACGIH as a carcinogen.

FIRST AID MEASURES

First Aid

Respiratory irritation. If breathing is difficult, give oxygen.
Call a physician.

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FIRE FIGHTING MEASURES

Flammable Properties

Flash Point : Nonflammable

Hazardous gases/vapors produced in fire are formaldehyde, ethanol, methanol, acetic acid, and acetone.

Extinguishing Media

Use media appropriate for surrounding material.

Fire Fighting Instructions

Evacuate personnel to a safe area. Keep personnel removed and upwind of fire. Wear self-contained breathing apparatus. Wear full protective equipment.

ACCIDENTAL RELEASE MEASURES

Safeguards (Personnel)

NOTE: Review FIRE FIGHTING MEASURES and HANDLING (PERSONNEL) sections before proceeding with clean-up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean-up.

Accidental Release Measures

No special precautions required.

HANDLING AND STORAGE

Handling (Personnel)

Do not breathe vapor or mist. Wash thoroughly after handling. Wash clothing after use. Do not store or consume food, drink or tobacco in areas where they may become contaminated with this material.

Storage

Do not store or consume food, drink or tobacco in areas where they

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EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls

No special precautions required.

Exposure Guidelines

Exposure Limits

NYLON POLYAMIDE FIBER (STAPLE AND YARN)
PEL (OSHA) : None Established
TLV (ACGIH) : None Established

PHYSICAL AND CHEMICAL PROPERTIES

Physical Data

Melting Point : 250 C (482 F)
Solubility in Water : Insoluble
Odor : None
Form : Fiber
Color : White

STABILITY AND REACTIVITY

Chemical Stability

Stable.

Incompatibility with Other Materials

None reasonably foreseeable.

Decomposition

Decomposition will not occur.

Hazardous gases/vapors produced are formaldehyde, ethanol, methanol, acetic acid, and acetone.

Polymerization

Polymerization will not occur.

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DISPOSAL CONSIDERATIONS

Waste Disposal

Treatment, storage, transportation, and disposal must be in accordance with applicable Federal, State/Provincial, and Local regulations.

Incinerate or landfill.

OTHER INFORMATION

NFPA, NPCA-HMIS

NFPA Rating	
Health	: 0
Flammability	: 0
Reactivity	: 0

Additional Information

DuPont MSDS.

The data in this Material Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process.

Responsibility for MSDS : MSDS Coordinator

* Indicates updated section.

End of MSDS