

SUPERIOR FIBER PRODUCTS

MATERIAL SAFETY DATA SHEET

Date Prepared: June 1, 2015

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: Nylon 66 (polyamide 66, PA66)
Short cut , staple, polymer, threadwaste

Company name and address: Superior Fiber Products
9401 Mentor Avenue
PMB #289
Mentor, Ohio 44060

Emergency telephone: 800-243-0789
Non-emergency telephone: 440-478-1999
Fax: 440-255-7264

2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Units</u>	<u>Components</u>	<u>CAS No.</u>	<u>Concentration range</u>
%	adipic acid – hexamethylenediamine resin (nylon 6/6)	32131-17-2	>=45.0 - <=90.0
%	polycaprolactam (nylon 6)	25038-54-4	>=0.0 - <=30.0
%	poly(hexamethylene adipamide-co- caprolactam) (nylon 6,6/6)	24993-04-2	>=0.0 - <=25.0
%	carbon black	1333-86-4	>=0.0 - <=5.0
%	titanium dioxide (colorant)	1317-70-0	>=0.0 - <=2.0

Components listed with a lower limit of 0% may or may not be present in the final formulation. 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.

3. HAZARDS IDENTIFICATION

Form: Pellets, regrind, chunk, plops, thread waste, staple, tow, filament yarn
Color: various
Odor: no odor

Warning Statements: No significant hazards associated with this material.

Potential Health Effects

Primary routes of exposure: Eye and skin contact, inhalation

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

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

Inhalation: No more than slightly toxic if inhaled. Elevated processing temperatures may cause release of vapors which are irritating if inhaled.

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.

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. Wash heavily contaminated clothing before reuse.

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 not likely to be required. A physician or Poison Control Center can be contacted for advice. Wash heavily contaminated clothing before reuse.

5. **FIRE FIGHTING MEASURES**

Flash Ignition Temperature: 581-592 degrees F Method: ASTM-D 1927-77
Auto Ignition Temperature : 905 degrees F Method: ASTM-D 1927-77

Hazardous products of combustion: carbon monoxide (CO); carbon dioxide; ammonia (NH₃); nitrogen oxides (NO_x)

Extinguishing media: Water spray, foam, dry chemical. Or carbon dioxide.

Unusual fire and explosion hazards: None known

Fire fighting equipment: Firefighters, and others exposed, wear self-contained breathing apparatus. Equipment should be thoroughly decontaminated after use.

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

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Use personal protection recommended in Section 8. Product may cause a slip hazard.

Environmental precautions: Keep out of drains and water courses. Pellets may present an ingestion hazard to wildlife due to resemblance to grains. Clean up spills immediately.

Clean up methods: In case of spill, sweep, scoop, or vacuum to remove. Flush spill area with water.

Refer to Section 13 for disposal information and Sections 14 and 15 for reportable quantity information.

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.

Emptied containers retain vapor and product residue. Observe all recommended safety precautions until container is cleaned, reconditioned, or destroyed. The reuse of this material's container for non industrial purposes is prohibited and any reuse must be in consideration of the data provided in this material safety data sheet.

Storage

Stable under normal conditions of handling and storage.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Airborne exposure limits: (ml/m³=ppm)

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

OSHA PEL: 15mg/m³ (total dust) 8-hr TWA
OSHA PEL: 5mg/m³ (respirable) 8-hr TWA
ACGIH TLV: 10mg/m³ (total dust) 8-hr TWA
ACGIH TLV: 3mg/m³ (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: This product does not present significant skin concern requiring special protection.

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

Respiratory protection: 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.

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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Melting point: 254-267 C
Flash point: >371 C
Specific gravity: 1.14
Percent volatile: less than 1%
Solubility: not soluble in water, soluble in formic acid and phenol

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

Materials 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: ammonia (NH₃); carbon monoxide (CO); carbon dioxide; hydrogen cyanide (HCN); nitrogen oxides (NO_x)

11. TOXICOLOGICAL INFORMATION

Superior Fiber Products, INC. 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 were noted following repeated oral administration.

12. **ECOLOGICAL INFORMATION**

Superior Fiber Products, 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 defined by the Resource, Conservation and Recovery Act. (RCRA), 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. This product should not be dumped, spilled, rinsed or washed into sewers or public waterways.

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.

This material is not hazardous or regulated for transport under applicable DOT or Canadian TDG regulations.

15. **REGULATORY INFORMATION**

Chemical Inventory Compliance	The components of this product are in compliance with the relevant requirements of the chemical control laws in the following world areas: Australia, Canada (DSL), China, Japan, Korea, Philippines, and United States (TSCA).
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

16. OTHER INFORMATION

Product use: Plastic resins

	Health	Fire	Reactivity	Additional Information
Suggested NFPA Rating:	1	0	0	
Suggested HMIS Rating:	1	0	0	A

Other Information: This product may contain other copolymers, color additives, heat stabilizers, 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.