

**MANUFACTURER:**

Firestone Textiles Co., A Division of Bridgestone Canada Inc.
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I - MATERIAL IDENTIFICATION AND USE**CHEMICAL NAME AND SYNONYMS:**

Polycaprolactam; Polyamide 6; Nylon 6

CAS NUMBER:

25038 - 54 - 4

CHEMICAL FAMILY:

Polyamide polymers

FORMULA: $[NH(CH_2)_5CO]_n$ **CANADA - TRANSPORTATION OF DANGEROUS GOODS CLASSIFICATION:**

Not hazardous

CANADA - WHMIS CLASSIFICATION:

Not a controlled article, not a manufactured article

U.S.A. - D.O.T. HAZARD CLASS:

Not regulated

U.S.A. - RCRA STATUS OF UNUSED MATERIAL (40 CFR 261):

Not hazardous

USES:

Used to produce fabrics, ropes and nets.

II - INGREDIENTS**INGREDIENTS:** Polycaprolactam 96% minimum

Polycaprolactam and proprietary additives

Proprietary ingredients may include such things as pigments and stabilizers. Some ingredients in their pure form are listed as hazardous. In nylon fibre, however, they are encapsulated and are not expected to present any hazards otherwise associated with them.

Contains less than 1.5% "finish", a combination of oils and emulsifiers to provide lubrication.

III - PHYSICAL DATA**PHYSICAL STATE:**

solid

SPECIFIC GRAVITY:

1.12 - 1.15

MELTING POINT:

215 °C (420 °F)

ODOR:

nil

SOLUBILITY IN WATER:

nil

APPEARANCE:

colored fibers

IV - FIRE AND EXPLOSION DATA**FLAMMABILITY:** Will ignite and burn above 250 °C (480 °F)**EXTINGUISHING MEDIA:** Water, dry chemical, carbon dioxide**SPECIAL FIRE FIGHTING PROCEDURES:** Firefighters and others exposed to products of combustion should wear self-contained breathing apparatus to avoid inhalation of combustion products.**V - REACTIVITY DATA****STABILITY:** Stable at ambient temperatures**INCOMPATIBILITY (MATERIALS TO AVOID):** Strong oxidizing chemicals**CONDITIONS TO AVOID:** Avoid direct contact with flame**HAZARDOUS DECOMPOSITION PRODUCTS:** When burned, gases may contain CO and HCN**HAZARDOUS POLYMERIZATION:** Will not occur**VI - HEALTH HAZARD DATA****THRESHOLD LIMIT VALUE:** None established for this material. However ACGIH have limits for "nuisance dusts" which is TLV - TWA = 10 mg/m³.**SKIN CONTACT:** No known significant effects**VII - SPILL, LEAK & DISPOSAL INFORMATION****WASTE DISPOSAL:** Dispose of waste nylon 6 as non-hazardous solid waste in accordance with federal state or provincial and local government regulations.**ENVIRONMENT:** Nylon 6 does not biodegrade. If kept uncontaminated it can be reprocessed.

VIII - SPECIAL PROTECTION INFORMATION

PERSONAL PROTECTIVE EQUIPMENT: None under normal conditions.
RESPIRATORY PROTECTION: None under normal conditions.

IX - SPECIAL PRECAUTIONS

HEAT TREATMENT: If heated to elevated temperatures during processing, some of the "finish" oils may be evaporated. Such processes should be totally enclosed and properly ventilated. Inhalation of fumes and vapours is to be avoided, wear a respirator if necessary.

X - PREPARATION OF MSDS

PREPARED BY: D. Irwin PHONE: (519) 537-6231
DATE: January 8, 1998

REVIEWED BY: Kim Davie PHONE: (519) 537-6231
DATE: November 23, 2011

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