

CONTROL FIBERS

Material Safety Data Sheet

Typical Properties

| | |
|----------------------------|--|
| Material: | Nylon |
| Filament Diameter: | 23 microns |
| Specific Gravity: | 1.16 |
| Fiber Length: | 1/4", 1/2", 3/4", 1-1/2" (06, 12, 19, 38mm) |
| Filaments/lb: | 17–90 million/lb (37–198 million/kg) |
| Tensile Strength: | 130 ksi (896 MPa) |
| Modulus (Youngs): | 750 ksi (5.17 GPa) |
| Toughness: | 15 ksi (103 MPa) |
| Melting Point: | 435°F (225°C) |
| Acid and Salt Resistance: | Good |
| Alkali Resistance: | Excellent |
| Ultra Violet Resistance: | Excellent |
| Electrical Conductivity: | Low |
| Thermal Conductivity: | Low |
| Water Absorption/Concrete: | 0.72 oz./yd ³ (21.29 ml/yd ³) |

Performance Properties in Motar/Concrete

- Reduced Micro & Macro Cracking
- Even Fiber Distribution
- Excellent Workability
- Reduced Permeability
- Smooth, Hairless Finish
- Increase Flexural Strength
- Increase Freeze Thaw Resistance
- Increase Impact Resistance
- Improve Abrasion Resistance
- Non-Corrosive Reinforcement

Section 1 • IDENTIFIERS

Identity: ConTrol 2000

Section 2 • HAZARDOUS INGREDIENTS IDENTITY INFORMATION

Caprolactam
Nylon 6 Poly (a-oxo-1, 5-hexanedyl)

OSHA PEL

Dust: 1 mg/m³ TWA
Vapor: 5 ppm, 20 mg/m³
TWA: 10 ppm, 40 mg/m³

ACGIH TLV

Dust: 1 mg/m³ TWA
Vapor: 5 ppm, 23 mg/m³
TWA: 10 ppm, 46 mg/m³

Section 3 • PHYSICAL/CHEMICAL CHARACTERISTICS

Specific Gravity: 1.12 – 1.14
Melting Point: Approx. 215–225°C, 420–437°F
Solubility in Water: Insoluble
Appearance: White
Odor: Slight odor characteristic of mineral-oil-based lubricant

Section 4 • FIRE AND EXPLOSION HAZARD DATA

Extinguishing Media: Use any standard agent.
Special Fire-Fighting Procedure: Wear NIOSH-approved, self-contained breathing apparatus. Avoid excessive inhalation of smoke or potential thermal decomposition products.

Section 5 • REACTIVITY DATA

Stability: Stable
Hazardous Polymerization: Will Not Occur

continued ...

Section 6 • HEALTH HAZARD DATA

Routes of Entry

| | |
|-------------|--------------|
| Inhalation: | Yes |
| Skin: | Yes |
| Ingestion: | Not Probable |

Health Hazards

No significant hazard associated with this material.

| | |
|-------------|-----------------------------------|
| Skin: | May cause mechanical irritation. |
| Eyes: | May cause mechanical irritation. |
| Inhalation: | Fibers are not respirable. |
| Ingestion: | Not a probably route of exposure. |

Signs and Symptoms of Exposure:

Skin and eye irritation may be caused by exposure.

Medical Conditions:

Fibers may cause mechanical irritation.

Emergency and First Aid Procedures:

First aid is not generally required when handling fibers.

Section 7 • PREVENTATIVE MEASURES

Leak and Spill

Procedure: Collect fiber and place in a container for reuse, recycle, or disposal.

Waste Disposal:

Dispose of by incineration or recycle in accordance with local, state, and federal regulations. Consult your attorney or regulatory officials.

Precautions: Normal handling and adequate personal protection equipment as determined necessary.

Storage: To maintain product quality, store in cool, dry area.

Section 8 • CONTROL MEASURES

Ventilation: Local exhaust recommended. Mechanical recommended.

Eye Contact:

Use good industrial practice to avoid contact.