

Material Safety Data Sheet Nylon Yarn 6

Section 1: Chemical Product and Company Identification

Product Name : Nylon Yarn 6
Chemical Formula : $[\text{NH}(\text{CH}_2)_5\text{CO}]_n$
Company Identification : Tradeasia International Pte Ltd
Email : contact@tradeasia.com

Section 2: Composition and Information on Ingredients

Composition:

Name	CAS#	% by Weight
Polycaprolactam	25038-54-4	> 96

Section 3: Hazards Identification

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

Section 4: First Aid Measures

Eye Contact: Not applicable.

Skin Contact: Not applicable.

Ingestion: Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.

Section 5: Fire and Explosion Data

Autoignition Temperature: Not available.

Flash Point: Not available.

Flammability of the Product: Will ignite and burn above 250°C (480°F).

Flammable Limits: Not available.

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.

Section 6: Accidental Release Measures

Waste Disposal: Dispose of waste nylon 6 as non-hazardous solid waste in accordance with federal state or provincial and local government regulations.

Section 7: Handling and Storage

Precautions:

Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. Do not ingest. Do not breathe gas/fumes/vapor/spray. Wear suitable protective clothing. If ingested, seek medical advice immediately and show the

container or the label. Avoid contact with skin and eyes. Keep away from incompatibles such as oxidizing agents.

Storage: Keep in a cool, well-ventilated area.

Section 8: Exposure Controls/Personal Protection

Personal Protective Equipment: None under normal conditions.

Respiratory Protection: None under normal conditions.

Section 9: Physical and Chemical Properties

Physical state and appearance	: Solid
Odor	: Nil
Taste	: Not available
Molecular Weight	: 339.47 g/mole
Color	: Colored fibres.
pH (1% soln./water)	: Not applicable.
Boiling Point	: Not applicable.
Melting Point	: 215°C
Vapor Pressure (mm Hg @ 20°C)	: Not applicable.
Vapor Density (air = 1)	: Not applicable.
Specific Gravity	: 1.12 – 1.15 (Water = 1)
Solubility in Water.	: Nil

Section 10: Stability and Reactivity Data

Stability: The product is stable at ambient temperatures.

Instability Temperature: Not available.

Conditions of Instability: Excess heat.

Incompatibility with various substances: Reactive with strong oxidizing agents.

Hazardous Decomposition Products: When burned, gases may contain CO and HCN.

Hazardous Polymerization: Will not occur

Section 11: Toxicological Information

Not applicable.

Section 12: Ecological Information

Environment: Nylon 6 does not biodegrade. If kept uncontaminated it can be reprocessed.

Section 13: Disposal Considerations

Waste Disposal:

Dispose of waste nylon 6 as non-hazardous solid waste in accordance with federal state or provincial and local government regulations.

Section 14: Transport Information

DOT Classification: Not a DOT controlled material (United States).

Identification: Not applicable.

Special Provisions for Transport: Not applicable.

Section 15: Other Regulatory Information

Health Hazard: 0

Reactivity: 0

Health: 0

Flammability: 0

Reactivity: 0

Protective Equipment: Gloves. Lab coat. Not applicable. Splash goggles.

Section 16: Other Information

References: Not available.

Other Special Considerations: Not available.

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