

Ny-Tuf™

1. IDENTIFICATION

PRODUCT NAME: Ny-Tuf

OTHER IDENTIFICATION: Nylon

RECOMMENDED USE: Primarily for use as plastic shrinkage and temperature-shrinkage crack reinforcement in concrete.

SOURCE: ABC Polymer Industries, LLC
545 Elm Street, Helena, AL 35080

EMERGENCY CONTACT: (205) 620-9889

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: This product does not require any hazard warning on the label under OSHA criteria.

GHS CLASSIFICATION: Not a hazardous substance or mixture according to the Globally Harmonized System (GHS).

POTENTIAL HEALTH EFFECTS:

- EYE CONTACT: No significant health hazards identified. Particles may cause slight discomfort similar to getting dust in the eye.
- SKIN CONTACT: No significant health hazards identified. Particles may cause slight discomfort similar to rubbing sand against the skin.
- INHALATION: No significant irritation expected other than possible mechanical irritation. When heated, the vapors/fumes given off may cause respiratory tract irritation.
- INGESTION: No significant health hazards identified.
- HMIS HAZARD ID: (Health:1) (Flammability:1) (Reactivity:0)
- NFPA HAZARD ID: (Health:1) (Flammability:1) (Reactivity:0)

3. COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENT	CAS #	RANGE % BY WEIGHT
Nylon 6	25038-54-4	>99
Caprolactam	105-60-2	<1

4. FIRST AID MEASURES

EYE: Flush eyes with plenty of water. Get medical attention if irritation persists.

SKIN: Wash exposed skin with soap and water. Get medical attention if irritation develops.

INHALATION: If adverse effects occur, remove to uncontaminated area.

INGESTION: If a large amount is swallowed, get medical attention.

5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Use extinguishing measures that are appropriate to local circumstances and surrounding environment. Water spray, Foam, Dry Chemical, Carbon Dioxide (Co2).

SPECIFIC HAZARDS: In case of fire hazardous decomposition products may be produced such as Hydrogen cyanide (hydrocyanic acid), Ammonia, Carbon Monoxide.

FIRE FIGHTING EQUIPMENT: Firefighters should wear full bunker gear, including a positive pressure self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

SPILLED MATERIAL MAY PRESENT A SLIP HAZARD.

CONTAIN AND REMOVE BY MECHANICAL MEANS. PREVENT ENTRY INTO WATERWAYS AND SEWERS.

7. HANDLING AND STORAGE

HANDLING: No special requirements.

STORAGE: No special requirements.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE LIMITS:

NIOSH:

- Vapour 1mg/m cu. REL
- Vapour 3mg/m cu. STEL
- Dust 1mg/m cu. REL

ACGIH THRESHOLD LIMIT VALUE:

- Vapor 5mg/m cu. TWA
- Dust 3mg/m cu. STEL
- Dust 1mg/m cu. STEL

OSHA PEL:

- Vapor 20mg/m cu. TWA: 40mg/m cu. STEL
- Dust 3mg/m cu. STEL

Particles not otherwise regulated:

ACGIH TLV:

- Inhalable Particles: 10mg/ m cu. TWA
- Respirable Particles: 3mg/ m cu. TWA

OSHA PEL:

- Total Dust: 15mg/ m cu.
- Respirable Fraction: 5mg/ m cu.

ENGINEERING CONTROLS: Control airborne concentrations below the exposure guidelines.

PERSONAL PROTECTION:

- EYE: None required; however, if contact is likely, safety glasses with side shields are recommended.
- SKIN: None required; however, use of protective gloves/clothing is a good industrial practice.
- INHALATION: None required; however, use of adequate ventilation is a good industrial practice.
- SPECIFIC HYGIENE MEASURES: Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Discard contaminated clothing and footwear that cannot be cleaned. Practice good housekeeping.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Solid fiber, light color.

ODOR: Mild

PH: Not determined.

VAPOR PRESSURE: Not determined

VAPOR DENSITY: Not determined

BOILING POINT: Not determined

MELTING POINT: 215 °C

SOLUBILITY IN WATER: Negligible, Below 1%

SPECIFIC GRAVITY (WATER=1): 1.14

10. STABILITY AND REACTIVITY

STABILITY: Stable

CONDITIONS TO AVOID: Avoid elevated temperatures for prolonged periods of time.

MATERIALS TO AVOID: Strong acids

HAZARDOUS DECOMPOSITION PRODUCTS: When exposed to elevated temperatures; hazardous decomposition products may be produced such as Hydrogen cyanide (hydrocyanic acid), Ammonia, Carbon Monoxide, Ke-tones, Amines, irritant gasses and flammable gasses.

HAZARDOUS POLYMERIZATION: Will not occur.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY DATA:

- EYE IRRITATION: Testing not conducted. See other toxicity data.
- SKIN IRRITATION: Testing not conducted. See other toxicity data.
- DERMAL LD50: Testing not conducted. See other toxicity data.
- ORAL LD50: Testing not conducted. See other toxicity data.
- INHALATION LD50: Testing not conducted. See other toxicity data.

OTHER TOXICITY DATA:

LD50 (rat) = 3200 mg/kg. Fibers have been tested and determined not to be irritants or to cause dermal irritation or contact allergic dermatitis.

Specific toxicity tests have not been conducted on this product. Our hazard evaluation is based on information from similar products, the ingredients, technical literature, and/or professional experience.

12. ECOLOGICAL INFORMATION

Ecological testing has not been conducted on this product. Information given is based on data available for the material and similar materials.

ECOTOXICITY: Not expected to be harmful to terrestrial or aquatic organisms.

PERSISTENCE AND DEGRADABILITY:

- BIODEGRADATION: Not inherently biodegradable.
- HYDROLYSIS: Transformation due to hydrolysis is not expected to be significant.
- PHOTOLYSIS: Transformation due to photolysis is not expected to be significant.
- ATMOSPHERIC OXIDATION: Transformation due to atmospheric oxidation is not expected to be significant.
- MOBILITY: Not expected to migrate.
- BIOACCUMULATION POTENTIAL: Potential to bioaccumulate is low.

13. DISPOSAL CONSIDERATION

DISPOSAL RECOMMENDATIONS: Material that cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

REGULATORY DISPOSAL INFORMATION: Product is not listed by the EPA as a hazardous waste (40 CFR, Part 261D), nor is it formulated to contain materials which are listed as hazardous wastes. It does not exhibit the hazardous characteristics of ignitability, corrosivity or reactivity and is not formulated with contaminants as determined by the Toxicity Characteristic Leaching Procedure (TCLP). However, used product may be regulated.

14. TRANSPORTATION INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION:
Not regulated for transport.

SEA (IMDG): Not regulated for transport.

AIR (IATA): Not regulated for transport.

EUROPEAN ROAD/RAIL (ADR/RID):
Not regulated for transport.

CANADIAN TRANSPORTATION OF DANGEROUS GOODS:
Not regulated for transport.

15. REGULATORY INFORMATION

SARA (311/312) REPORTABLE HAZARD CATEGORIES:
None

T.S.C.A.: All components are listed in the T.S.C.A. inventory.

SARA 313: Product contains no chemicals subject to the supplier notification requirements of the SARA 313 Toxic Release Program.

EPCRA SECTION 302: This product contains no extremely hazardous substances.

OZONE DEPLETION POTENTIAL: This product does not contain Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

CALIFORNIA PROP. 65 COMPONENTS: This product does not contain any component listed under California Prop. 65.

16. OTHER INFORMATION

PREPARED BY: ABC Polymer Industries, LLC

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