

SAFETY DATA SHEET NYLON 6

Section 1 – Chemical Product and Company Identification

SDS Name: Nylon 6

Catalog numbers: AC177910000, AC177910010,
AC1779165000

Synonyms: Poly(caprolactam); 6-aminohexanoic acid
homopolymer; Caproamide Polymer; Hexahydro-2H-Azepin-2-
one homopolymer

Company Identification:

Integrated Fiber Solutions
438 Lavender Dr.
Rome, GA 30165

For information in North America, call: 706-235-1158

For emergencies in the US, call CHEMTREC: 800-424-9300

Section 2 – Composition, Information on Ingredients

2. Composition / Information on Ingredients

Components	CAS #	Concentration
NYLON 6 POLYAMIDE	25038-54-4	90 - 99 %
FIBER LUBRICANTS	Mixture	0 - 4 %
WATER	7732-18-5	0 - 5 %
TITANIUM DIOXIDE	13463-67-7	0 - 5 %
CARBON BLACK	1333-86-4	0 - 5 %
COLOR CONCENTRATE	Mixture	0 - 2 %
Composition comments		

Hazard Symbols : None listed.

Risk Phrases: None listed.

Section 3 – Hazards Identifications

EMERGENCY OVERVIEW

Appearance : Colored Fibers. **Warning!** May cause eye and skin irritation. May cause respiratory and digestive tract irritation.

Target Organs: None.

Potential Health effects Eye:

May cause eye irritation.

Skin: May cause skin irritation.

Ingestion : May cause digestive tract disturbances.

Inhalation : May cause respiratory tract irritation.

Chronic: No information found.

Section 4 – First Aid Measures

Eyes: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.

Skin: Get medical aid. Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes.

Ingestion : If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid immediately.

Inhalation: Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

Notes to Physician: Treat symptomatically and supportively.

Section 5 – Fire Fighting Measures

General Information: As In Any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

Extinguishing Media: Use water spray, dry chemical, carbon dioxide, or alcohol-resistant foam.

Section 6 – Accidental Release Measures

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Clean up spills immediately, observing precautions in the Protective Equipment section. Sweep up or absorb material, then place into a suitable clean, dry, closed container for disposal. Avoid generating dusty conditions. Provide ventilation.

Section 7 – Handling and Storage

Handling: Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation.

Storage: Keep container closed when not in use. Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances.

Section 8 – Exposure Controls, Personal Protections

Engineering Controls : Use adequate ventilation to keep airborne concentrations low.

Exposure Limits

Chemical Name	ACGIH	NIOSH	OSHA-Final PELs
Nylon 6	None listed	None listed	None listed

OSHA Vacated PELs: Nylon 6: No OSHA Vacated PELs are listed for this chemical.

Personal Protective Equipment

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European standard EN166.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: Follow the OSHA respirator regulations found in 29CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN149 approved respirator when necessary.

Section 9 – Physical and Chemical Properties

Physical State: Fiber

Appearance: Colored Fiber

Odor: Not available

PH : Not available.

Vapor Pressure: Not Available.

Vapor Density : 3.90

Evaporation Rate: Not available.

Viscosity: Not available.

Boiling Point: Not available.

Freezing/Melting Point: 223deg C

Autoignition Point: Not available.

Flash Point: Not available.

Decomposition Temperature: Not available.

NFPA rating:

Explosion Limits, Lower: Not available.

Upper: Not available.

Solubility: Insoluble

Specific Gravity / Density: 1.0840g/cm³

Molecular Formula: NHC₅H₁₀CO

Molecular Weight: 113.0831

Section 10 – Stability and Reactivity

Chemical Stability: Stable under normal temperatures and pressures.

Conditions to Avoid: Incompatible materials, strong oxidants.

Incompatibilities with Other Materials: Strong Oxidizing Agents, Strong Bases.

Hazardous Decomposition Products: Nitrogen oxides, carbon monoxide, carbon dioxide.

Hazardous Polymerization : Has not been reported

Section 11 – Toxicological Information

RTECS#:

CAS# 25038-54-4 : TQ9800000

LD50/LC50 :

CAS# 25038-54-4 :

Inhalation, mouse : LC50 = 11gm/m³/30M ;

Carcinogenicity :

CAS#25038-54-4 :

IARC : Group 3 carcinogen

Epidemiology : No data available

Teratogenicity: No data available

Reproductive Effects: No data available

Neurotoxicity: No data available

Mutagenicity: No data available

Other Studies: No data available

Section 12 – Ecological Information

No information available.

Section 13 – Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

RCRA P-Series: None listed
RCRA U-Series: None listed

Section 14 – Transport Information

	US DOT	IATA	RID/ADR	IMO	Canada TDG
Shipping Name:	No information available				No information available
Hazard Class:					
UN Number:					
Packing Group					

Section 15 – Regulatory Information

US FEDERAL

TSCA

CAS# 25038-54-4 is listed in the TSCA Inventory

Health & Safety Reporting List

None of the chemicals are on the Health & Safety Reporting List.

Chemical Test Rules

None of the chemicals in this product are under a chemical Test Rule.

Section 12 b

None of the chemical are listed under TSCA section 12b.

TSCA Significant New Use Rule

None of the chemical in this material have a SNUR under TSCA.

SARA

Section 302 (RQ)

None of the chemicals in this material have an RQ.

Section 302 (TPQ)

None of the chemicals in this products have a TPQ

Section 313

No chemicals are reportable under section 313.

Clean Water Act:

This material does not contain any hazardous air pollutants. This material does not contain any Class 1 Ozone depleters. This material does not contain any Class 2 Ozone depleters.

Clean Water Act:

None of the chemicals in this product are listed as Hazardous Substances under de CWA. None of the chemicals in this product are listed as Priority Pollutants under the CWA. None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

OSHA:

None of the chemicals in this product are considered highly hazardous by OSHA.

STATE

CAS# 25038-54-4 is not present in the state lists from CA, PA, MN, MA, FL, or NJ.

California No Significant Risk Level: None of the chemicals in this product are listed.

European / International Regulations**European Labeling in Accordance with EC Directives****Hazard Symbols:**

Not available

Risk Phrases::**Safety Phrases:**

S 24/25 Avoid contact with skin and eyes.

WKG (Water Danger / Protection)

CAS# 25038-54-4: No information available.

Canada

CAS# 25038-54-4 is listed on Canada's DSL List. CAS# 25038-54-4 is listed on Canada's DSL List.

WHMIS: Not available

CAS# 25038-54-4 is not listed on Canada's Ingredient Disclosure List.

Exposure Limits

Section 16 – Additional Information

SDS Creation Date: 1/1/2016

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any another warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In not event shall Syntec be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Syntec has been advised of the possibility of such damages.