



Material Safety Data Sheet

Section 1

**MSDS: Nylon 6
Mineral / Glass Filled**

Dynamic Polymer Solutions
Telephone Numbers: (810) 324-1451
Chemtrec - Transportation Emergency:
(800) 424-9300

MATERIAL IDENTIFICATION

PRODUCT NAME:	DYN-N640GM		
CHEMICAL NAME:	Polyhexamethylene Adipamide		
CAS NO.:	Polyhexamethylene Adipamide	25038-54-4	
	Glass Fiber Filament	65997-17-3	15.0%
	Carbon Black (if Black)	1333-86-4	< 2.0 – 4.0%
	Heat Stabilizer	n/a	< 5.0%
	Mineral	n/a	25.0%
PRODUCT USE:	Injection Molding		

Section 2

HAZARDOUS INGREDIENTS (Additives not hazardous by 29 CFR 1910.1200)

Identity	CAS Number	Concentration
Glass Fiber Filament		10 mg/m ³

Section 3

HEALTH HAZARD DATA

Acute or immediate effects:

Routes of entry and systems: Solids/liquids include eye and skin contact, ingestion and inhalation. Routes of entry for gas include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.

Ingestion:	Material is unlikely to require medical attention if ingested.
Skin:	Contact with molten material can result in thermal burns. Dusts generated from mechanical processing may cause irritation to skin.
Eye:	Dusts generated from mechanical processing may cause mechanical



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	irritation to eyes.
Inhalation:	Processing vapors/fumes may cause irritation to mucosal membranes, respiratory tract.

Section 4

EMERGENCY FIRST AID

Eyes:	Immediately rinse eyes with running water for 15 minutes. If irritation develops, seek medical attention.
Skin:	Wash affected areas with soap and water. Remove and launder contaminated clothing before reuse. If irritation develops, seek medical attention.
Inhalation:	Move to fresh air. Aid in breathing, if necessary, and seek immediate medical attention.
Ingestion:	Ingestion is not likely in pellet form. If ingested, seek medical attention.
Chronic Effects:	Prolonged inhalation exposure may produce cough, phlegm, fatigue, chest pain and headache. Dermal, inhalation, or mucosal exposures may cause irritation. Chronic exposures to carbon black have been known to produce pneumoconiosis (chronic inflammatory and fibrotic lung disease) in workers.
Medical Conditions generally aggravated by this material:	No data available that addresses medical conditions that are generally recognized as being aggravated by exposure.

Section 5

FIRE AND EXPLOSION HAZARD DATA

Flash Ignition Temperature:	> 400C
Unusual Fire/Explosion Hazards:	
Hazardous Combustion Products:	Hydrogen cyanide and ammonia
Special Fire Fighting Instructions:	Use self-contained breathing apparatus and full turn-out gear
Extinguishing Media:	



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Section 6

ACCIDENTAL RELEASES

Spill or Release: Reclaim for processing if possible. Spills should be contained and placed in suitable containers for disposal in a licensed facility. This material is not regulated by RCRA or CERCLA.

Section 7

STORAGE CONDITIONS

NORMAL HANDLING: Keep containers closed

STORAGE RECOMMENDATIONS: Keep containers closed.

Section 8

PROTECTION INFORMATION

Eye:	Safety glasses/goggles
Skin:	Gloves, apron to prevent contact during mechanical processing and/or under hot melt conditions.
Ventilation:	Use local exhaust to control dusts or vapors during processing.
Respirator:	When processing vapors are not adequately controlled, wear a NIOSH/MSHA approved organic vapor cartridge respirator. If dusts are generated during mechanical processing, wear a NIOSH/MSHA approved dust respirator as necessary
Additional Protective Measures:	None

Section 9

PHYSICAL/CHEMICAL DATA

Appearance:	Black Pellets
Odor:	None
Melting Point:	
Solubility in Water:	Insoluble
Volatile Content %:	



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Specific Gravity:	Not Available
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Section 10

HAZARDOUS REACTIVITY

Stability at Room Temperature:	Stable
Materials to Avoid:	Strong oxidizing agents, acids, bases
Conditions to Avoid:	Prolonged exposure to extreme heat. Avoid dust accumulation and moisture during storage.
Decomposition Temperature:	> 300C
Decomposition Products:	Hydrogen cyanide, carbon dioxide, ammonia, carbon monoxide

Section 11

TOXICOLOGICAL INFORMATION

Toxicity Data for:

Acute Toxicity

Eye Effects:

Skin Effects:

Other Acute Effects:

Medical Conditions Prone to Aggravation by Exposure:

Carcinogenicity:

NTP –

IARC –

OSHA -

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ECOLOGICAL INFORMATION

Aquatic Toxicity:

Section 13

DISPOSAL



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Spill or Release: Reclaim for processing if possible. Spills should be contained and placed in suitable containers for disposal in a licensed facility. This material is not regulated by RCRA or CERCLA.

Waste Disposal: Incinerate in a licensed facility. Do not discharge into waterways or sewer systems. Unused material and empty containers must be disposed of in accordance with local, state/provincial, and federal regulations.

Section 14

TRANSPORT INFORMATION

DOT Hazard Class:	None
Technical Shipping Name:	None
Freight Class Bulk:	None
Freight Class Package:	None
Product Label:	None

Section 15

REGULATORY INFORMATION

OSHA Status:

SARA TITLE III:

Section 302 – Extremely Hazardous Substances: None

Section 311/312 Hazard Categories: None

Section 313 Toxic Chemicals: None

RCRA Status: None

United States TSCA Status: Listed on Inventory

STATE RIGHT TO KNOW LAWS – The following chemicals are specifically listed by individual states; other product specific health and safety data in other sections of the MSDS may also be applicable for state requirements. For details on your regulatory requirements, contact the appropriate agency in your state

Component Name	
CAS Number	Concentration

HMIS Rating



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0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

Health	
Flammability	
Reactivity	
PPE	
# Acute *Chronic	

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MISCELLANEOUS INFORMATION

The information set forth herein has been gathered from standard reference materials and/or supplier test data and is, to the best knowledge and belief of Dynamic Polymer Solutions, accurate and reliable. Such information is offered solely for your consideration, investigation and verification, and it is not suggested or guaranteed that the hazard precautions or procedures mentioned are the only ones that exist. Dynamic Polymer Solutions makes no warranties, expressed or implied, with respect to the use of such information or the use of the specific material identified herein in combination with any other material or process, and assumes no responsibility therefore.

END OF MSDS