



Material Safety Data Sheet

Section 1

MSDS: Polyamide 6
Glass Filled

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

MATERIAL IDENTIFICATION

PRODUCT NAME:	DYN-N613G, DYN-N633G, DYN-N643G		
CHEMICAL NAME:	Polyhexamethylene Adipamide		
CAS NO.:	Polyhexamethylene Adipamide	25038-54-4	< 60.0%
	Glass Fiber Filament	65997-17-3	13.0 – 43.0%
	Heat Stabilizer & Lube	n/a	< 5.0%
	Impact Modifier (if IM)	n/a	< 20.0%
	Carbon Black (if Black)	1333-86-4	< 2.0 – 4.0%
PRODUCT USE:	Engineered Thermoplastics		

Section 2

HAZARDOUS INGREDIENTS (Additives not hazardous by 29 CFR 1910.1200)

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

Section 3

HEALTH HAZARD DATA

Acute or immediate effects:

Routes of entry and systems:

Ingestion:	Ingestion is not a likely route of exposure. Ingestion of product may cause gastrointestinal discomfort.
Skin:	Pellets or dusts in contact with skin may cause irritation. Hot or molten polymer can burn the skin.



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Eye:	Contact with powders or dusts may cause mechanical irritation. Thermal processing fumes/vapors may irritate the eyes.
Inhalation:	Thermal processing fumes/vapors or dusts may irritate the mucous membranes of the nose and throat.

Section 4

EMERGENCY FIRST AID

Eyes:	Flush eyes with running water. If irritation develops or persists, seek medical attention.
Skin:	For irritation, flush the skin with cool running water. Wash the affected area with mild soap and water. Obtain medical attention if irritation persists. If hot or molten polymer burns the skin, immerse the burned area in cold running water, and seek medical attention immediately.
Inhalation:	Remove person to fresh air. If irritation develops or persists, obtain medical attention.
Ingestion:	Ingestion is not a likely route of exposure. If product is ingested, seek medical attention.
Chronic Effects:	There are no known chronic effects associated with this material.
Advice to Physician	There are no specific recommendations for treatment of effects associated with exposure to these products. Base treatments on clinical findings.

Section 5

FIRE AND EXPLOSION HAZARD DATA

Flash Ignition Temperature:	Not Determined
Unusual Fire/Explosion Hazards:	None known
Hazardous Combustion Products:	None listed
Special Fire Fighting Instructions:	Wear self-contained, positive-pressure breathing apparatus (full face-piece type) and full protective clothing.
Extinguishing Media:	Water, foam, dry chemical, carbon dioxide



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Section 6

ACCIDENTAL RELEASES

Spill or Release: Sweep or vacuum material and place in container for re-use or disposal.

Section 7

STORAGE CONDITIONS

NORMAL HANDLING: Avoid processing material above recommended thermal processing temperatures. Read product Technical Data Sheet before use. Avoid breathing thermal processing fumes and vapors. Avoid inhalation and/or skin contact with product dusts or pellets. Avoid dust or pellets in contact with the eyes. Consider the use of local exhaust ventilation at all processing emission points. Wash thoroughly after handling.

STORAGE RECOMMENDATIONS: To maintain product quality, store product in a cool, dry area. Keep in a tightly sealed container.

Section 8

PROTECTION INFORMATION

Eye:	Wear safety glasses with side shields as a minimum. Use a face shield when processing molten material.
Skin:	Wear gloves when handling drums and when handling hot polymer. Use arm protection to protect against thermal burns.
Ventilation:	Good manufacturing practice and good industrial hygiene practice recommend the use of local exhaust ventilation at thermal processing emission points. Processors should evaluate the need for local exhaust ventilation at each processing emission point. These considerations should include secondary operations (cutting, regrinding, chopping, etc.) that follow thermal processing.
Respirator:	If dusty conditions exist, use a mechanical filter respirator approved by NIOSH. For exposures to



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	fumes and vapors in excess of permissible exposure limits, use an organic vapor cartridge respirator approved by NIOSH.
Additional Protective Measures:	Use additional personal protective equipment consistent with the users plant conditions and requirements. An eye wash fountain or other source of running water is recommended for the work area.

Section 9

PHYSICAL/CHEMICAL DATA

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

Section 10

HAZARDOUS REACTIVITY

Stability at Room Temperature:	Stable
Materials to Avoid:	Strong Mineral Acids
Conditions to Avoid:	Exposure to open flame or temperatures exceeding optimum recommended processing temperatures. Avoid prolonged exposure to processing temperatures.
Decomposition Temperature:	
Decomposition Products:	Carbon monoxide, ammonia, aliphatic amines, amides, ketones, nitriles, hydrogen cyanide. Specific materials generated will vary depending on the additives and colorants used, specific temperatures, time of exposure, and other immediate environmental factors.

Section 11

TOXICOLOGICAL INFORMATION



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Toxicity Data for:
Toxicological data regarding immediate health effects of the product are not available.

Section 12

ECOLOGICAL INFORMATION

No ecotoxicological information is available. Pellets left at large (spill) in the environment may be ingested by animals. Material is expected to have low aquatic toxicity due to its insolubility in water.

Section 13

DISPOSAL

Waste Disposal: Standard grade and precolored products, as shipped, are non-hazardous organic solids. Preferred options for disposal are recycle, incineration with energy recovery, and landfill. Treatment, storage, transportation, and disposal of product must comply with applicable federal, state/provincial, and local disposal regulations.

Section 14

TRANSPORT INFORMATION

DOT Hazard Class:	Not Regulated
Technical Shipping Name:	
Freight Class Bulk:	
Freight Class Package:	
Product Label:	

Section 15

REGULATORY INFORMATION

OSHA Status:

SARA TITLE III:



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Section 302 – Extremely Hazardous Substances: None
Section 311/312 Hazard Categories: Immediate, Delayed
Section 313 Toxic Chemicals: None
RCRA Status: None

United States TSCA Status: All components are listed on the TSCA Inventory, or are exempt under PMN regulations

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

None Listed

HMIS Rating

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

Health	1
Flammability	0
Reactivity	0
PPE	
# Acute *Chronic	

Section 16

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