



MX Nylon (nylon MXD6)

SDS Preparation Date (dd/mm/yyyy): 13/11/2023

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## SAFETY DATA SHEET

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended.

### SECTION 1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

**1.1 Product identifier** : **MX Nylon (nylon MXD6)**

**Product Code(s)** : 6000, 6005, S6003LD, S6007, S6011, S6022, S6121

**1.2 Relevant identified uses of the substance or mixture and uses advised against**

: Compounding, injection molding, film and sheet

Use pattern: Restricted to professional users.

Restrictions on use: Indirect and direct food contact with specific food applications and conditions of use. Not authorized for medical devices nor permanent implantation in the human body.

**1.3 Details of the supplier of the safety data sheet:**

**MGC Advanced Polymers, Inc**

1100 Port Walthall Drive

Colonial Heights, Virginia, USA

23834

**Telephone** : (804) 520 7800

**1.4 Emergency Telephone Number**

: 804-520 7800

**1.5 National Contact**

: info@mapnylon.com

### SECTION 2. HAZARDS IDENTIFICATION

**2.1 Classification of the substance or mixture**

Clear or white solid pellets

The product is not classified as dangerous according to Regulation (EC) No. 1272/2008.

**2.2 Label elements**

*Hazard pictogram(s)*

None required according to Regulation (EC) No. 1272/2008.

*Signal word:*

None required according to Regulation (EC) No. 1272/2008.

*Hazard statements:*

None required according to Regulation (EC) No. 1272/2008.

*Precautionary statements:*

None required according to Regulation (EC) No. 1272/2008.

**2.3 Other hazards**

Other hazards which do not result in classification:

Product dust may be irritating to eyes, skin, and respiratory system.

Thermal decomposition can lead to release of irritating gases and vapors.

The molten product can cause serious burns.



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PBT assessment:

This mixture contains no substance(s) above reportable levels which are considered to be persistent, bioaccumulating nor toxic (PBT), or very persistent and very bioaccumulating (vPvB).

Endocrine disrupting properties: None known.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 Substances

Substance name	CAS No	EC No.	<u>Reach Registration No.</u>	% Weight	<u>Classification according to Regulation (EC) nr. 1272/2008</u>	<u>SCL, M-factor, ATE</u>
Hexanedioic acid, polymer with 1,3-benzenedimethanamine	25718-70-1	643-077-1	Present	>99.5	Not classified	Not applicable

For the full text of the H phrases not mentioned in this Section or in Section 2, see Section 16.

#### 3.2 Mixtures

Not applicable

### SECTION 4. FIRST-AID MEASURES

#### 4.1 Description of first aid measures

- Ingestion* : Under normal conditions of use, harmful effects are not expected.
- Inhalation* : Under normal conditions of use, harmful effects are not expected.
- Skin contact* : Under normal conditions of use, harmful effects are not expected.
- Eye contact* : Under normal conditions of use, harmful effects are not expected.

#### 4.1.2 Self-protection for the first aider

- : None known or reported by the manufacturer.

#### 4.2 Most important symptoms and effects, both acute and delayed

- : Symptoms: See section 11.

#### 4.3 Indication of any immediate medical attention and special treatment needed

- : Treat symptomatically.

### SECTION 5. FIRE-FIGHTING MEASURES

#### 5.1 Extinguishing media

*Suitable extinguishing media*

- : Use media suitable to the surrounding fire such as water fog or fine spray, alcohol foams, carbon dioxide and dry chemical.

*Unsuitable extinguishing media*

- : Do not use a solid water stream as it may scatter and spread fire.

#### 5.2 Special hazards arising from the substance or mixture

- : Not flammable. Burning produces obnoxious and toxic fumes.

#### 5.3 Advice for firefighters

*Protective equipment for fire-fighters*

- : Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.



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*Special fire-fighting procedures*

- : Move containers from fire area if safe to do so. Water spray may be useful in cooling equipment exposed to heat and flame. Do not allow run-off from firefighting to enter drains or water courses. Dike for water control.

### SECTION 6. ACCIDENTAL RELEASE MEASURES

**6.1 Personal precautions, protective equipment and emergency procedures**

- : Restrict access to area until completion of clean-up. Ensure clean-up is conducted by trained personnel only. Individuals involved in the cleanup must wear appropriate personal protective equipment. For personal protection see section 8.

**6.2 Environmental precautions**

- : Ensure spilled product does not enter drains, sewers, waterways, or confined spaces.

**6.3 Methods and material for containment and cleaning up**

- : Remove all sources of ignition. Ventilate area of release. Stop the spill at source if it is safe to do so. Clean up promptly by sweeping or vacuum. Place spilled material into a suitable, labelled container for later disposal (see Section 13).

**6.4 Reference to other sections**

- : Refer to Section 5 for firefighting instructions. Refer to protective measures listed in sections 7 and 8. Refer to Section 13 for disposal of material.

### SECTION 7. HANDLING AND STORAGE

**7.1 Precautions for safe handling**

- : Provide adequate ventilation. Use personal protective equipment as required. Avoid contact with skin and eyes. Keep away from extreme heat and flame. Keep away from incompatibles. Keep containers closed when not in use. Wash thoroughly after handling.

**7.2 Conditions for safe storage, including any incompatibilities**

- : Keep away from incompatibles, refer to section 10.

**7.3 Specific end use(s)**

- : Compounding, injection molding, film and sheet

### SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**8.1 Control Parameters**

<u>Exposure Limits:</u>			
<u>Chemical Name</u>	<u>Exposure Limits</u>	<u>Type</u>	<u>Notes</u>
Inert or Nuisance Dust:	10 mg/m <sup>3</sup> (TWA)	The United Kingdom (WELs)	Respirable Dust

<u>Biological Exposure Indices:</u>
No biological exposure limits noted for the ingredient(s).

Derived No Effect Level (DNEL)  
 Not available.

Predicted No Effect Concentration (PNEC)  
 Not available.



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### 8.2 Exposure controls

#### Ventilation and engineering measures

: Provide adequate ventilation. If product is processed in a manner that generates dusts or fumes, provide mechanical ventilation to control airborne exposure levels.

**Respiratory protection** : Not required under normal conditions of handling. If product is processed in a manner that generates dusts or fumes, conduct air monitoring to assess the need for respiratory protection. If respiratory protection is warranted, wear NIOSH-approved respirators. Advice should be sought from respiratory protection specialists.

**Skin protection** : Not required under normal conditions of handling. For prolonged or repeated contact use protective gloves. Advice should be sought from glove suppliers.

**Eye / face protection** : Not required under normal conditions of handling. If product is processed in a manner that generates dusts or fumes, wear as appropriate: Safety glasses with side shields; Goggles.

#### Other protective equipment

: An eyewash station and safety shower should be made available in the immediate working area. Other equipment may be required depending on workplace standards.

#### General hygiene considerations

: Avoid breathing fumes. Avoid contact with skin and eyes. Do not eat, drink or smoke when using this product. Upon completion of work, wash hands before eating, drinking, smoking or use of toilet facilities. Remove soiled clothing and wash it thoroughly before reuse.

### 8.3 Environmental exposure controls

: Avoid release to the environment.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

<b>Physical state</b>	: Solid, pellet
<b>Colour</b>	: Clear or white
<b>Odour</b>	: Odourless.
<b>Odour threshold</b>	: N/Av
<b>pH</b>	: N/Av
<b>Flash point</b>	: $\geq 350^{\circ}\text{C}$
<b>Flashpoint (Method)</b>	: N/Av
<b>Lower flammable limit (% by vol.)</b>	: N/Av
<b>Upper flammable limit (% by vol.)</b>	: N/Av
<b>Auto-ignition temperature</b>	: N/Av
<b>Decomposition temperature</b>	: $310^{\circ}\text{C}$
<b>Oxidizing properties</b>	: None.
<b>Explosive properties</b>	: Not explosive (as dust)
<b>Initial boiling point and boiling range</b>	: N/Av
<b>Melting/Freezing point</b>	: $237^{\circ}\text{C}$
<b>Relative density</b>	: 1.21
<b>Solubility in water</b>	: Insoluble.
<b>Other solubility(ies)</b>	: N/Av
<b>Vapour pressure</b>	: N/Av



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**Vapour density** : N/Av  
**Partition coefficient: n-octanol/water**  
: N/Av  
**Viscosity** : N/Av  
**Evaporation rate (BuAe = 1)**  
: N/Av  
**Particle characteristics** : N/Av

### 9.2 Other Information

**Volatiles (% by weight)** : 0  
**Volatile organic Compounds (VOC's)**  
: 0 g/L  
**Other physical/chemical comments**  
: No additional information.

## SECTION 10. STABILITY AND REACTIVITY

**10.1 Reactivity** : Not normally reactive.  
**10.2 Chemical stability** : Stable under normal conditions.  
**10.3 Possibility of hazardous reactions**  
: No dangerous reaction known under conditions of normal use.  
**10.4 Conditions to avoid** : Avoid heat and open flame. Avoid contact with incompatible materials. Do not use in areas without adequate ventilation.  
**10.5 Incompatible materials**  
: Strong oxidizing agents; mineral acids  
**10.6 Hazardous decomposition products**  
: In the event of fire: Carbon dioxide and carbon monoxide.

## SECTION 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on Toxicological effects:

**Acute toxicity** : According to the classification criteria of the European Union, this product is not considered as being an acutely toxic chemical.  
**Skin corrosion/Irritation** : According to the classification criteria of the European Union, the product is not considered as being a skin irritant.  
**Serious eye damage/irritation**  
: According to the classification criteria of the European Union, the product is not considered as being an eye irritant.  
**Respiratory or skin sensitisation**  
: Not expected to be a skin or respiratory sensitizer.  
**Germ cell mutagenicity** : Not expected to be mutagenic in humans.  
**Carcinogenicity** : According to the classification criteria of the European Union, the product is not considered as being a carcinogen.  
**Reproductive toxicity** : Not expected to have other reproductive effects.  
**STOT-single exposure** : According to the classification criteria of the European Union, this product is not expected to cause target organ toxicity through a single exposure.  
**STOT-repeated exposure** : According to the classification criteria of the European Union, this product is not expected to cause target organ toxicity through repeated exposures.  
**Aspiration hazard** : According to the classification criteria of the European Union, this product is not considered as being an aspiration hazard to humans.  
**Routes of exposure** : Skin contact; Eye contact



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**Effects of acute exposure** : Skin contact: Not an irritant.

Eye contact: Not an irritant.

Ingestion: Not an expected route of entry under normal conditions of use.

Inhalation: Not an expected route of entry under normal conditions of use.

**Potential Chronic Health Effects**

: None known or reported by the manufacturer.

### 11.1.1 Acute Toxicity

**Toxicological data** : See below for individual ingredient acute toxicity data.

<u>Chemical name</u>	<u>LC<sub>50</sub>(4hr)</u> <u>inh, rat</u>	<u>LD<sub>50</sub></u>	
		<u>(Oral, rat)</u>	<u>(Rabbit, dermal)</u>
Hexanedioic acid, polymer with 1,3-benzenedimethanamine	N/Av	N/Av	N/Av

### 11.2 Information on other Hazards

: None known.

11.2.1 Endocrine disrupting properties:  
None Known.

## SECTION 12. ECOLOGICAL INFORMATION

**12.1 Toxicity** : As supplied, this product does not present a physical, health or environmental hazard.

No data is available on the product itself. The product should not be allowed to enter drains or water courses or be deposited where it can affect ground or surface waters.

**Ecotoxicity data:**

<u>Ingredients</u>	<u>CAS No</u>	<u>Toxicity to Fish</u>		
		<u>LC<sub>50</sub> / 96h</u>	<u>NOEC / 21 day</u>	<u>M Factor</u>
Hexanedioic acid, polymer with 1,3-benzenedimethanamine	25718-70-1	N/Av	N/Av	N/Av

<u>Ingredients</u>	<u>CAS No</u>	<u>Toxicity to Daphnia</u>		
		<u>EC<sub>50</sub> / 48h</u>	<u>NOEC / 21 day</u>	<u>M Factor</u>
Hexanedioic acid, polymer with 1,3-benzenedimethanamine	25718-70-1	N/Av	N/Av	N/Av

<u>Ingredients</u>	<u>CAS No</u>	<u>Toxicity to Algae</u>		
		<u>EC<sub>50</sub> / 96h or 72h</u>	<u>NOEC / 96h or 72h</u>	<u>M Factor</u>
Hexanedioic acid, polymer with 1,3-benzenedimethanamine	25718-70-1	N/Av	N/Av	N/Av



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### 12.2 Persistence and degradability

: No data is available on the product itself.

### 12.3 Bioaccumulation potential

: No data is available on the product itself.

### 12.4 Mobility in soil

: No data is available on the product itself.

### 12.5 Results of PBT and vPvB assessment

: This preparation contains no substances, at reportable levels, considered to be persistent, bioaccumulating nor toxic (PBT).

### 12.6 Endocrine disrupting properties

: None known or reported by the manufacturer.

### 12.7 Other Adverse Environmental effects

: No data is available on the product itself.

12.8 Additional information : None known or reported by the manufacturer.

## SECTION 13. DISPOSAL CONSIDERATIONS

### 13.1 Waste Treatment Methods:

**Handling for Disposal** : See Section 7 (Handling and Storage) for further details.

**Methods of Disposal** : Dispose in accordance with all applicable regulations.



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**SECTION 14. TRANSPORTATION INFORMATION**

<i>Regulatory Information</i>	<b>14.1 UN Number</b>	<b>14.2 UN proper shipping name</b>	<b>14.3 Transport hazard class(es)</b>	<b>14.4 Packing Group</b>	<i>Label</i>
ICAO/IATA	None.	Not regulated.	Not regulated	none	
<b>ICAO/IATA Additional information</b>	None.				
ADR/RID	None.	not regulated	not regulated	none	
<b>EU ADR/RID Classification Code</b>	Not classified as dangerous for conveyance in the meaning of the regulations for the transport of dangerous goods by road and rail.				
<b>EU ADR / RID Hazard Identification Number</b>					
<b>ADR/RID Additional information</b>					
IMDG	None.	Not regulated.	not regulated	none	
<b>IMDG Additional information</b>	None.				

**14.5 Environmental hazards** : This product does not meet the criteria for an environmentally hazardous mixture, according to the IMDG Code. See ECOLOGICAL INFORMATION, Section 12.

**14.6 Special precautions for user**

: Appropriate advice on safety must accompany the package.

**14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

: Not applicable.

**SECTION 15. REGULATORY INFORMATION**

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**





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: Classification according to Regulation (EC) No. 1272/2008 on the classification of hazardous substances and mixtures.

Authorisations Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorisation, as amended: Not applicable.

Restrictions on use  
Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use, as amended: Not applicable.

Directive 2012/18/EU (Seveso III) on the control of major-accident hazards involving dangerous substances: Not applicable.

Directive 98/24/EC on the protection of the health and safety of workers from risks related to chemical agents at work: Not applicable.

Directive 94/33/EC on the protection of young people at work: Not applicable.

RoHS European Union's Directive 2002/95/EC, the Restriction of the Use of certain Hazardous Substances in Electrical and Electronic Equipment (RoHS): Not applicable.

German legislation on water endangering substances AWSV Water hazard class (Germany) 1 - self classified

### 15.2 Chemical safety assessment

: A chemical safety assessment has not been carried out by the Manufacturer of this product.

## SECTION 16. OTHER INFORMATION

### Legend

: ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road  
ATE: Acute Toxicity Estimate  
CAS: Chemical Abstract Services  
CLP: Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures  
EC: European Community  
EC50: Effective Concentration 50%  
EEC: European Economic Community  
EN: European Standard  
EU: European Union  
IATA: International Air Transport Association  
ICAO: International Civil Aviation Organisation  
IMDG: International Maritime Dangerous Goods  
LC: Lethal Concentration  
LD: Lethal Dose  
M-Factor: Multiplication Factor  
NOEC: No observable effect concentration  
NS: Not specified  
OECD: Organisation for Economic Co-operation and Development  
OEL: National occupational exposure limits  
PEL: Permissible exposure limit  
RID: Regulations concerning the International Carriage of Dangerous Goods by Rail  
SCL: Specific Concentration Limit  
STEL: Short Term Exposure Limit  
TWA: Time Weighted Average  
TLV: Threshold Limit Value  
WEL: Workplace Exposure Limit



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- Information Source** :
1. ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents & Biological Exposure Indices
  2. ECHA - European Chemical Agency
  3. Canadian Centre for Occupational Health and Safety, CCIInfoWeb databases
  4. Safety Data Sheets from manufacturer.
  5. US EPA Title III List of Lists
  6. California Proposition 65 List
  7. OECD - The Global Portal to Information on Chemical Substances - eChemPortal

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**Regulation and Procedure** :

Not applicable.  
 H-phrases (full-text)  
 None.

**Other special considerations for handling** : Provide adequate information, instruction and training for operators.

<p><b><u>Prepared for:</u></b>          MGC Advanced Polymers, Inc          1100 Port Walthall Drive          Colonial Heights          Virginia, USA 23834          Telephone: 804-520-7800          Website: www.mapnylon.com</p>	
<p><b><u>Prepared by:</u></b>          ICC The Compliance Center Inc.  <a href="http://www.thecompliancecenter.com">http://www.thecompliancecenter.com</a></p>	

**DISCLAIMER**

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