

Material Safety Data Sheet

Acc. To ISO / DIS 11014

Elaboration Date: SEPTEMBER, 2011

Revision No.: 1.0

PRODUCT: NYLON 6.12 AB MONOFILAMENTS, NATURAL

1 Product and Company Identification:

- **Product Specifications:** Synthetic Monofilaments of Polyamide 6.12
- **Trade Name:** Nylon 6.12 AB Monofilaments
- **Product Codes:** C-200211-A; C-200211-A-1; C-200311-A;
C-200311-A-1; C-200411-A; C-200411-A-1;
C-200411-A-S; C-200511-A; C-200511-A-1;
C-200611-A; C-200811-A; C201011-A
- **Manufacturer / Distributor:** Proveedora Mexicana de Monofilamentos, S.A. de C.V.
- **Address:** Oriente 217 No. 190
Agrícola Oriental
México D.F. 08500
- **Responsible Department:** Quality Assurance Department.
- **Product Information:** (52 55) 55-58-65-02

2 Composition / Information on Ingredients:

- **Chemical Characteristics:**
- **General Description:** Polyhexamethylene Dodecanamide
CAS No. 26098-55-5 > 99.0%
Antimicrobial additive based on Silver-Zinc-Glass
CAS No.: Trade Secret < 0.5%
Colorants, stabilizers, and lubricants < 0.5%
- **Hazard Components:** NA

3 Hazard Identification:

- **Hazard Descriptions:** Not flammable.
- **Potential Health Effects:** All ingredients comprising this resin are bound in a thermoplastic polymer. These substances do not present a respiration hazard unless the polymer is ground to a powder of respirable size and the dust is inhaled. All dusts are potentially injurious to the respiratory tract if respirable particles are generated and inhaled in sufficiently high concentrations. Good industrial hygiene practices, as with all dusts, should include precautions to prevent inhalation of respirable particles. Material is not known to contain Toxic Chemical under Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR part 372.
NFPA
- **Classification System:**
- **NFPA (range 0-4):**
 - Health: 0
 - Fire: 1
 - Reactivity: 0

4 First-Aid Measures:

- **General Information:** Skin contact, Eye contact, Ingestion, Inhalation.

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- **Inhalation:**

No specific intervention is indicated, as the compound is not likely to be hazardous by inhalation. If exposed to fumes from overheating or combustion, move to fresh air. Consult a physician if symptoms persist.

- **Skin Contact:**

The material is not likely to be hazardous by skin contact.

- **Eye Contact:**

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

- **Ingestion:**

No specific intervention is indicated, as the material is not likely to be hazardous by ingestion. Consult a physician if necessary.

5 Fire-Fighting Measures:

- | | |
|--|--|
| - Flash Point | NA |
| - Extinguishing Media: | Water, Foam, Dry Chemical, CO ₂ |
| - Flash Ignition Temp: | 400°C |
| - Special Fire Fighting Instructions: | None |

6 Accidental Release Measures:

- | | |
|--|---|
| - Safety Cautions: | NA |
| - Environmental Safety Precautions: | NA |
| - Cleaning Safety Cautions: | Check section 13 "Disposal Considerations" for any additional information |

7 Handling and Storage:

Handling.

- Because of the Nylon 6.12 hygroscopic properties, it is important to avoid an environment with high humidity levels or any water contact with the packing boxes.
- It is important the material will not be directly exposed to sunlight nor any type of excessive heat sources (heaters, electric motors) that might cause the material drying or degradation.
- Although Nylon 6.12 is an inert plastic material we recommend the use of every lot in a period of time no longer than five months since the elaboration date. If storage conditions have been appropriate, the characteristics of the material will be perfectly preserved.

Storage.

- The boxes of Nylon 6.12 Monofilaments must be stored in a closed and fresh place, specially in a dry atmosphere between 22° and 25°C temperature average.
- Is recommended not to store more than four boxes one over the other in order to avoid the material compresses too much.

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8 Personal Protection and Exposure Controls:

- **Engineering measures:** Ventilation. Local exhaust is recommended to control the concentrations of dust generated below exposure levels.
- **Hygienic Measures:** Use good work practices. Do not breathe dusts or molten polymer vapors.

Personal Protective Equipment:

- **Respiratory Protection:** To protect from any kind of irritation or allergic reaction, use protective equipment like dust respirators, when this product is used into high speed cutting machines, or rounding machines.
- **Hands Protection:** Not necessary.
- **Eye Protection:** Safety glasses are recommended.
- **Body Protection:** Not necessary.

9 Physical and Chemical Properties:

- **Physical state**
 - **Form:** Solid round section filaments
 - **Color:** Natural
 - **Odor:** Odorless
- **9.2 Safety Data Info.**
 - **Melting Point** 208 – 215°C
 - **Boiling Point:** Not Applicable
 - **Flash point:** 400°C
 - **Autoignition:** ND
 - **Explosion Hazards:** NH
 - **Density** 1.05 - 1.07
 - **Solubility in water:** Insoluble
 - **Solvent Content:** NA
 - **Organic Solvent:** Formic Acid

10 Stability and Reactivity:

- **Conditions to avoid**
 - Heating above 340° C (644° F)
 - Keep the product away from any type of ignition form like sparkles, hot surfaces, or the direct exposure to heat sources like daylight, electric heaters, electric motors.
- **Material to avoid:**
 - Strong acids, bases, oxidizing agents
- **Hazardous decomposition products:**
 - Carbon monoxide, ammonia, aldehydes

11 Toxicological Information:

- **Toxicity:** NH
- **LD/Lc50 values:** NH / ND
- **Irritation effects:** NH
- **Skin Effects:** NH

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| - Eye Effects : | NH |
| - Breathing Effects: | NH |
| - Sensitization: | NH |
| - Additional Toxicology Information: | ND |

12 Ecological Information:

- | | |
|-------------------------------|--------------------------|
| - Elimination: | Recycling, Incineration. |
| - Environmental Stability: | Stable. |
| - General Information: | ND |
| - Degradability and Toxicity: | Long Term Degradation. |
| - Additional Information: | ND |
| - Comments: | ND |

13 Disposal Consideration.:

Disposal Methods:

It is recommended that you select an alternative below according to the following order of preference, depending on environmental impact:

- 1) Recycle or rework material if at all possible
- 2) Incinerate material at an approved facility
- 3) Treat at acceptable waste treatment facility, or municipal waste treatment plant after proper testing and approval of waste samples.

14 Transport Information:

- | | |
|---------------|---------------|
| - DOT status: | Not regulated |
| - Risks: | NA |

15 Regulatory Information:

- | | |
|---|---|
| - Information concern hazardous material: | NA |
| - National Regulations.: | ND |
| - FDA Status: | The components of this material have been cleared by the FDA or approved under 21 CFR 177.1500 "Nylon Resins" and the Food Contact Notification (FCN) No. 248 |

16 Other Information:

- | | |
|------------|---|
| - Contact: | PMM, Proveedora Mexicana de Monofilamentos S.A. de C.V. |
|------------|---|

Acronym List:

- | | | |
|----|---|--|
| NA | = | Not Applicable to this material. |
| NH | = | Not Hazardous. |
| ND | = | No Data is currently Available. |
| NK | = | None Known, no information found in data searches. |

No hazards are expected during normal use of this product.

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind expressed or implied, is made with respect to the information contained herein.