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1. Chemical Product and Company Identification

- o **Product Name** : DYNEX MC NAT
- o **Chemical Name** : POLYAMIDE 6 (CAST NYLON6)
- o **CAS NO** : 25038-54-4 (POLYMER)
- o **Product Use** : Engineering Plastic Stock Shape for Machining

2. Hazards Identification

- o **GHS Classifications** : Not applicable
- o **GHS label elements**
 - Classification : None
 - Signal Word : None
 - Pictograms and Symbols : None
 - Hazard Statements : None
 - Precautionary Statements : None
- o **Eye** : Polymer particles can cause mechanical irritation.
- o **Skin** : Hot and molten material has the potential to cause thermal burns.
- o **Inhalation** : Shapes not respirable.
- o **Ingestion** : No specific information available on the product.

3. Composition, information on Ingredients

This is a polymeric material. All constituents have no likelihood of exposure under normal conditions of processing and handling

4. First Aid Measures

- o **Eye**
 - Immediately flush eyes with plenty of water.
 - Seek medical attention if discomfort persists.
- o **Skin**
 - If hot and molten MC NAT contact skin, cool rapidly with cold water.
 - If MC NAT is stuck to skin, do not remove. And allow adhered MC NAT to come off NATURALLY.
 - Seek medical attention if burn occurs.

- **Inhalation**

- MC NAT is not likely to be inhaled due to physical form.

- **Ingestion**

- If a significant quantity has been swallowed, give plenty of water to dilute. Seek medical attention.

5. Fire Fighting Measures

- **Extinguishing Media**

- Suitable extinguishing media : Carbon dioxide, powder, dry chemical, foam or water spray.

- Unsuitable extinguishing media : None Known.

- **Special hazards arising from the substance or mixture**

- Carbon monoxide, hydrogen cyanide and nitrogen gasses will occur.

- **Firefighting Instructions**

- Firefighters should wear self-contained breathing apparatus and full fire-fighting turn-out gear(bunker gear).

6. Accidental Release Measures

- **Personal precaution**

- Sweeping to prevent fell.

- **Environmental protection**

- No special measures.

7. Handling and Storage

- **Handling**

- Evacuate residue to prevent slipping hazard.

- **Storage**

- Store in well-ventilated area away from heat and sunlight. Dry storage

8. Exposure Controls, Personal Protection

- **Engineering Controls**

- A continuous supply of fresh air to the workplace together with removal of processing fumes through exhaust systems is recommended.

- **Protective Equipment**

- **Eyes** : Wear safety glasses with side shields should be sufficient for most processing and machining runs.

- **Skin** : When thermal or melt processing, wear long pants, long sleeves and well insulated gloves.

- **Respiratory** : Under normal conditions no special respiratory protection is required, however one recommends with work under increased temperatures without sufficient exhaust, use an approved air-purifying respirator.

o Exposure Guidelines

Ingredient	Agency		Value
Caprolactam	OSHA	PEL	None Established
	ACGIH	TLV	Vapors - 5 mg/m ³
Particulates	OSHA	PEL	15 mg/m ³ (Total), 5 mg/m ³ (Respirable)
	ACGIH	TLV	10 mg/m ³ (Total)

9. Physical and Chemical Properties

- o **Appearance** : Solid/Stock shape may be rod or plate
- o **Color** : Dark Grey
- o **Smell** : None
- o **PH** : Not applicable
- o **Water Solubility** : Insoluble
- o **Melting Point** : 212~230°C (413~446°F)
- o **Boiling Point** : Not applicable
- o **Vapor Pressure** : Not applicable
- o **Ignition Temperature** : 450°C (842°F)
- o **Specific Gravity** : 1.15 ~ 1.17g/cm³

10. Stability and Reactivity

- o **Chemical Stability** : Stable under normal conditions of use and storage.
- o **Hazardous Reactions** : Stable under normal conditions.
- o **Condition to Avoid** : Heating above 300°C (572°F)
- o **Materials to Avoid** : Strong acids and Oxidizing agents.
- o **Hazardous Decomposition Products** : Carbon monoxide, Carbon dioxide and Hydrogen cyanide.

11. Toxicological Information

- o **Aggravated Medical** : None.
- o **Acute Effects** : Non-toxic.
- o **Skin Corrosion/Irritation** : Not irritating to the skin.
- o **Serious Eye Damage/Irritation** : Particulates can be mechanically irritating to the eyes.
- o **Respiratory or Skin Sensitization** : Not expected to be a sensitizer.
- o **Germ Cell Mutagenicity** : Not expected to be a germ cell mutagen.

- o **Carcinogenicity:** Not classifiable as carcinogen to humans (group 3 IARC).
- o **Reproductive Toxicity :** There aren't known reproductive toxicity effects.
- o **Aspiration Hazard :** No data available. Not expected to be an aspiration hazard.

12. Ecological Information

- o **Ecotoxicity :** There aren't known ecological toxicity values.
- o **Persistence and degradability :** It's expected high persistence and slow degradability.
- o **Bioaccumulative Potential :** It's expected moderate to high bioaccumulative potential.
- o **Mobility in Soil :** No data available
- o **Other Adverse Effects :** No data available

13. Disposal Considerations

Recycling is encouraged. Dispose in accordance with local regulations.

14. Transport Information

- o **US Department of Transportation Classification :** Not classified as hazardous for transport

15. Regulatory Information

- o **TSCA**
All the ingredients are listed in the TSCA Inventory or are compliant with the TSCA polymer exemption rule.
- o **SARA Section 302/304**
No extremely hazardous substances
- o **Section 313 Supplier Notification**
This product does not contain any toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 and of 40 CFR 372.

16. Other Information

This product is not intended for use in medical applications involving permanent implantation in the human body. The information contained herein is based on the present state of our knowledge. We don't suggest or guarantee that any hazards listed herein are the only ones that exist. Makes no warranty of any kind concerning the safe use of this material in your process or in combiNATion with other substances. Effects can be aggravated by other materials and this material may aggravate the effects of other materials. Users have the sole responsibility to determine the suitability of the materials of any use and the manner of use contemplated. Users must meet all applicable safety and health standards.

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