

Safety Data Sheet according to Directive 91/155/CEE – ISO 11014-1

Trade name:

Nº SHE: HPA 008

CAS substance code: 25 038-54-4

Edition: 08

01.09.2009

## 1. PRODUCT AND COMPANY IDENTIFICATION

Product identification: POLYAMIDE 6 (pellets)  
Trade name: NOVAMID®  
Company identification: NUREL S.A.  
Carretera Barcelona Km. 329,2  
50016 ZARAGOZA, SPAIN  
Tlf.: 0034 976 465 579  
Fax: 0034 976 574 108  
Emergency telephone number: 0034 976 465 579

## 2. CHEMICAL COMPOSITION

Polyamide 6.  $(-\text{NH}(\text{CH}_2)_5\text{CO}-)_n$   
Additional information: The product contains no hazardous substances.

## 3. HAZARDS IDENTIFICATION

Contact with the molten product could produce localized burns.

## 4. FIRST AID MEASURES

- **General:** Normally first aid is only necessary in the case of burns and to treat the inhalation of fumes from burnt product.
- **In case of inhalation:** Remove the patient into the fresh air.
- **In case of contact with the skin:** The molten product can cause burns. Wash the affected area immediately with copious amount of cold water. Do NOT try to remove the hot polymer due to the risk of it adhering to the skin.
- **In case of contact with the eyes:** Wash with clean water.
- **In case of swallowing:** Seek medical assistance.

## 5. FIRE FIGHTING MEASURES

- **Suitable extinguishing agents:** All extinguishing agents are admitted (water, foam, dry powder,  $\text{CO}_2$ , sand...) if the product is involved in a fire.
- **Specific risk resulting from exposure to the fumes and substances produced by combustion:**
- **In case of fire toxic fumes of  $\text{NO}_x$ , CO and  $\text{CO}_2$**  may be emitted.
- **Fire fighting equipment:** Use independent breathing apparatus.

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## 6. MEASURES TO TAKE IN CASE OF ACCIDENTAL SPILLAGE

- **Precautionary measures:** Mark off the affected area and sweep up the product. A spillage of chips could make the area slippery under foot.
- **Measures for environmental protection:** There are no particular risks.
- **Cleaning methods:** Sweep up the area taking care to create as little dust as possible, and deposit the product in a container for recovery or disposal. Clean or vacuum the area.

## 7. HANDLING AND STORAGE

- **Handling:** Specific precautionary measures are not necessary.
- **Storage:** Store in a dry place, at room temperature.

## 8. EXPOSURE CONTROL AND PERSONAL PROTECTION

- **Components with values that require monitoring in the work place:** The following values for dust apply only to cold processes (e.g., cutting or grinding):
  - Total inhalation dust: 10 mg/m<sup>3</sup> (TWA, 8 hours)
  - Breathable dust: 5 mg/m<sup>3</sup> (TWA, 8 hours)
- **Personal protection:** Facial protection must be worn if there is a risk of flying chips
- **Hygienic measures:** NA
- **Breathing protection:** NA
- **Protection of hands:** Use protective gloves when handling hot product.
- **Eye protection:** Use protective glasses when handling hot product or during cold processes (eg. cutting or grinding)
- **Body protection:** Use appropriate protective clothing.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** granules (chips)

- Physical state: Solid
- Colour: White in raw state (bright, semi dull, dull)
- Smell: none

**Important safety data:**

- Melting point: 223 °C
- Ignition point: > 400 °C
- Flash point: NA

**Solubility:**

- Practically insoluble in water, and in most organic solvents.
- Soluble in formic acid and sulphuric acid.

**Other properties:**

- The product is not flammable and is resistant to combustion. It burns with difficulty (only in contact with a flame).
- The product does not self-ignite but does self-extinguish. It melts forming pearl-like drops.

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#### 10. STABILITY AND REACTIVITY

- **Thermal decomposition:**  
Stable under normal condition of use, with no known hazardous reactions.  
Decomposition temperature: > 350 °C.
- **Hazardous products arising from decomposition:**  
Toxic fumes of nitrogen oxides, carbon dioxide, carbon monoxide and CNH are produced when heated to the point of decomposition.

#### 11. TOXICOLOGICAL INFORMATION

- Acute oral toxicity: (DL<sub>50</sub>) = NA.
- Observations: no toxicological effects known under normal conditions of use.

#### 12. ECOLOGICAL INFORMATION

- **Durability/biodegradability:** durable product with low biodegradability.
- **Toxicity in water:** NA
- **Observations:** easily recoverable.

#### 13. DISPOSAL CONSIDERATIONS

Recycle where possible, otherwise disposal must be made according to official regulations.

#### 14. TRANSPORTATION INFORMATION

The product is not classified as hazardous for transport.

#### 15. OTHER INFORMATION

- **Product application:** Basic polymer for the production of polyamide yarn.
- **Other applications:** Production of technical plastics.

This information is based upon the latest data available and refers to the product in the form in which it is supplied to our customers. It is intended to describe the products from the point of view of health and safety, and is not intended to be a guarantee of product properties or characteristics.