

Safety Data Sheet according to Regulation (EC) 453/2010

**POLYAMIDE 6 POLYMER**

Edition: 1

Date: 3/06/2015

## 1. PRODUCT AND COMPANY IDENTIFICATION

### 1.1. Product identifier

POLYAMIDE 6 POLYMER (CHIPS)  
Trade name: **PROMYDE** ®

### BF40 LN

### 1.2. Identified uses of the product

Polymer for extrusion applications

### 1.3. Company identification

#### NUREL S.A.

Carretera Barcelona Km. 329,2  
50016 ZARAGOZA (SPAIN)  
Tel: (+34) 976 465 579 Fax: (+34) 976 574 108  
Website: [www.promyde.com](http://www.promyde.com)

### 1.4. Emergency telephone number

Single European Emergency Number: 112 (EU).

## 2. IDENTIFICATION OF HAZARDS

*In accordance with (EC) regulation no.1272/2008 on classification, labelling and packaging of substances and mixtures.*

- Label elements and precautionary statement:

This product does not require a hazard warning label in accordance with CLP criteria.

- Classification of substances and mixtures:

No classification is required for this product in accordance with CLP criteria.

- Potential hazards ( According to Directive 1999/45/EC):

None.

## 3. COMPOSITION/INFORMATION ON COMPONENTS

<u>CAS number</u>	<u>Content(W/W)</u>	<u>Chemical name</u>
25038-54-4	99%	Polyamide (PA6)

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## 4. FIRST AID MEASURES

- **General indications:** Usually only necessary in the event of thermal burns and inhalation of fumes from melted material.
- **In the event of inhalation:** Remove patient from exposure.
- **In the event of contact with skin:** The melted material may cause thermal burns. DO NOT attempt to remove the melted polymer from skin. Quickly cool with cold water. Carefully remove clothing (risk of adherence to the skin).
- **In the event of contact with eyes:** Flush out particles by rinsing with clean water.
- **In the event of swallowing or burns:** Seek medical attention

## 5. FIRE FIGHTING MEASURES

- **Suitable fire extinguishing media:** if the product is involved in a fire, all extinguishing agents are suitable for the surrounding materials/equipment (foam, sprayed water, dry extinguishing powder, CO<sub>2</sub>, sand...).
- **Specific hazards resulting from exposure to the substance, its combustion products and the gases produced:** risk of spreading of fire due to hot spillages. Cool the melted product.
- **In the event of a fire:** toxic vapours or fumes of NO<sub>x</sub>, CO, CO<sub>2</sub> may be released.
- **Personal protective equipment for fire fighting:** Use self-contained breathing apparatus.

## 6. MEASURES TO BE TAKEN IN THE EVENT OF ACCIDENTAL SPILLAGE

- **Precautionary measures:** signpost the affected area and collect the product. A spillage of chips may cause slip or fall hazards.
- **Environment protection measures:** It does not present any particular risks.
- **Methods for cleaning/collection:** collect the product and place it in a container. Clean the area.

## 7. HANDLING AND STORAGE

- **Fire and explosion protection:** Prevent the formation of electrostatic charges, sparks, direct flames.
- **Storage:** Store at room temperature in a dry place.

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## 8. EXPOSURE LIMITS AND PERSONAL PROTECTION MEASURES.

### ▪ Components with limit values that require monitoring at the workplace:

In normal operating conditions, with adequate ventilation, it can be assumed that the limit values will not be reached.

105-60-2:e-caprolactam

VLA-EC value 40mg/m<sup>3</sup> (Spain)

VLA-ED value 10 mg/m<sup>3</sup> (Spain)

- **Personal protection:** wear face protection if there is the possibility of flying chips.
- **Respiratory protection:** In the event of insufficient ventilation and formation of dust, wear airway protection.
- **Hand protection:** Wear thermal insulated gloves for handling when hot.
- **Eye protection:** Wear protective goggles if handling when hot or during cold processing operations (cutting or grinding).
- **Body protection:** Wear suitable protective garments for the task to be carried out

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### ➤ Physical properties:

- Appearance: Granular (chips).
- Form or state: Solid.
- Odour: Odourless.
- Density: 1.13 g/cm<sup>3</sup> (20°C).

### ➤ Chemical properties:

- Solubility:
  - Practically insoluble in water and in most organic solvents
  - Soluble in hot phenols, cresols, formic acid and sulfuric acid.

### ➤ Thermal properties:

- Melting point: 223°C.

### ➤ Other properties:

- It does not burn easily.
- It is a non-oxidising, self-extinguishing product.
- It melts forming pearls.

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## 10. STABILITY AND REACTIVITY

- **Thermal decomposition:**
  - Stable in normal conditions of use.
- **Hazardous decomposition products:**
  - When heated to decomposition it emits toxic fumes of nitrogen oxides, carbon monoxide and carbon dioxide and hydrogen cyanide.
- **Conditions to avoid:**
  - Dust generation in the presence of excessive heat, sources of ignition, sparks, direct flames.
  - Temperature >300 °C
  - Oxidising substances.

## 11. TOXICOLOGICAL INFORMATION

- **Acute oral toxicity:** According to information on the components. Not classed as harmful if swallowed. According to the classification criteria of the mixtures.
- **Irritation:** The substance is inert when correctly handled, according to experience and the literature.
- **Respiratory/skin sensitization:** The substance does not cause any effects when correctly handled, according to experience and the literature.
- **Other hazards:** Based on our experience and on available information, no other specific toxicological hazards are expected to occur under normal conditions of use.

## 12. ECOLOGICAL INFORMATION

- **Persistence/biodegradability:** persistent product with low biodegradability.
- **Aquatic toxicity:** According to the information on the components, the product does not have harmful effects on the aquatic organisms tested.  
According to the classification criteria of the mixtures.
- **Observations:** easily recoverable.

## 13. WASTE DISPOSAL

Recycle as much as possible and if the product cannot be recovered, dispose of it in accordance with current local legislation.

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## 14. TRANSPORT INFORMATION

➤ **Land transport**

ADR: Not classified as dangerous goods for transport.  
RID: Not classified as dangerous goods for transport.

➤ **Sea transport**

IMDG: Not classified as dangerous goods for transport.

➤ **Air transport:**

IATA/ ICAO : Not classified as dangerous goods for transport.

## 15. LEGAL PROVISIONS

- **Labelling:** statutory mandatory hazardous substance labelling is not applicable.
- **Pictograms:** NA.
- **R phrases:** NA.
- **S phrases:** NA.

## 16. OTHER INFORMATION

Polymer for extrusion applications

This information is based on the current state of our knowledge and refers to the product in the form in which it is supplied.

This document aims to describe the product from a safety requirement point of view and does not guarantee particular properties or particular technical characteristics.

For further information, consult the Technical Data Sheet.