merquinsa



# MATERIAL SAFETY DATA SHEET

**According to Regulation (CE) No. 1907/2006**

**Product: PEARLTHANE® 11T60D**

## Section 1. Product and company identification

**Product name:** **PEARLTHANE® 11T60D**
**Chemical name:** Thermoplastic polyurethane elastomer
**Use of the product:** Extrusion and injection moulding
**Company:** Merquinsa Mercados Químicos, S.L
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Tel. (+34) 935 721 100 Fax (+34) 935 720 934
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## Section 2. Hazard identification

This product is not considered hazardous at ambient conditions and there are no known or expected health effects.

Processing temperatures may generate minor quantities of fumes and vapours sufficient to cause eye, skin and upper respiratory tract irritation if ventilation is inadequate.

Molten polymer may cause thermal burns to skin and serious burns to eyes.

There are no known chronic effects associated with this material.

In case of spillage, possible risk of slipping.

## Section 3. Composition / Information on ingredients

This product does not contain any substance which can be dangerous for the health or the environment, with exposure limits in the working place. It does not contain any persistent, bioaccumulative or toxic substance nor very persistent or very bioaccumulative.

## Section 4. First aid measures

**Inhalation**: If during its application or in case of fire processing vapours or decomposition products are inhaled, remove person to fresh air. If irritation develops or persists, obtain medical attention.

**Eye contact**: Rinse eyes with plenty of water, mechanical effects only.

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**Skin contact**: Wash off with water and soap. If molten polymer contacts the skin, cool the skin rapidly with water. Get medical attention if necessary.

**Ingestion**: No adverse effects anticipated.

## Section 5. Fire fighting measures

**Extinguish media**: *Small fire*. Use dry chemical, $CO_2$, water spray or regular foam. *Large fire*. Use water spray, water fog or regular foam. Do not use straight streams.

**Combustion products**: Under fire conditions, polymer decomposes generating smoke and unidentified toxic and irritating compounds (see section 10).

**Fire fighting instructions**: Fire fighters should wear positive pressure self-contained breathing apparatus and should be equipped with protective clothing. Keep people away and isolate fire area.

## Section 6. Accidental release measures

**Personal precautions**: In case of spillage, material on the floor may cause slipping and falls.

**Environmental precautions**: Prevent product from going into sewers or any water flow.

In case of spill sweep up material and place in containers for re-use or disposal.

## Section 7. Handling and storage

Avoid processing material above recommended thermal processing temperatures.

Good general ventilation should be sufficient for most conditions. Consider the use of local exhaust ventilation at processing emission points.

Avoid breathing thermal processing fumes and vapours.

Mechanical handling equipment can cause formation of dust. Avoid breathing dust.

Use proper grounding techniques when handling this product to avoid electrostatic charges.

Pellets on the floor may be slippery and cause falls.

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Storage recommendations: To maintain product quality, store product in a cool, dry area. Keep in a tightly sealed container.

## Section 8. Exposure controls / Personal protection

**Respiratory protection**: For most conditions, no respiratory protection should be needed. When processing at elevated temperatures without sufficient ventilation, use an approved air-purifying respirator.

**Eye protection**: Use safety glasses if there is a potential risk for exposure to particles. Use safety glasses if vapour exposure causes eye discomfort.

**Skin protection**: Wear gloves for handling hot material during processing.

## Section 9. Physical and chemical properties

| | |
|---|---|
| Appearance: | Translucent, colourless pellets. |
| Odour: | Not noticeable. |
| Boiling point / range: | Not applicable. |
| Melting point / range: | At temperatures between 202º and 212º C. |
| Flash point: | Not applicable. |
| Auto ignition: | No data. |
| Vapour pressure: | Not applicable. |
| Density at 20º C: | 1.19 gr./$cm^3$. |
| Solubility: | Soluble in DMF. |
| Viscosity at 20º C: | Not applicable. |

## Section 10. Stability and reactivity

Product is stable at room temperature.

Volatiles from melt processing are expected to be water vapour, carbon dioxide and other decomposition products.

Hazardous decomposition products: Thermal breakdown products may include a complex mixture of compounds, including but not limited to CO, $CO_2$, hydrogen cyanide, oxides of nitrogen, hydrocarbons, isocyanates, water vapour smoke.

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The specific materials generated will vary depending on temperature, time and other immediate environmental factors.

Conditions to avoid: Temperature above 240º C.

## Section 11. Toxicological information

Inhalation: At room temperature, exposure to dust and vapours is unlikely. High processing temperatures may generate vapours which may cause irritation and sensitization.

Ingestion: No adverse effects anticipated.

Eyes: The product in solid or dust form may cause irritation due to mechanical action. Elevated temperatures may generate vapours sufficient to cause eye irritation.

Skin contact: Essentially non-irritating to skin at room temperature. At high temperature vapours may cause sensitization.

No toxicity studies have been conducted.

## Section 12. Ecological information

Not expected adverse effects from this product as furnished.

No ecotoxicological information is available.

Material is expected to have low aquatic toxicity because of its insolubility in water.

## Section 13. Disposal considerations

The unused product is not considered a hazardous waste.

Do not dump into any sewers, on the ground or into any body of water.

Any disposal practice must be in compliance with all local laws and regulations.

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## Section 14. Transport information

This product is not classified as dangerous for any mode of transportation.

ADR / RID: Not regulated

ICAO / IATA: Not regulated

IMDG: Not regulated

## Section 15. Regulatory information

This product does not need to be labelled according to EC regulations.

EU R phrases: Not applicable EU S phrases: Not applicable

EINECS status: All starting raw materials of this product are listed on EINECS.

TSCA status: All ingredients are on the TSCA inventory.

## Section 16. Other information

**Disclaimer of responsibility**

The information provided in this document is generated for the purpose of distributing health, safety and environmental data. It is not a specification sheet nor should any displayed data be construed as a specification.

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