merquinsa

MATERIAL SAFETY DATA SHEET

According Regulation (CE) No. 1907/2006

Product: PEARLSTICK® 45-90/12

Section 1. Product and company identification

Product name: **PEARLSTICK® 45-90/12**
Chemical name: Thermoplastic polyurethane elastomer
Use of the product: Adhesives manufacture.
Company: Merquinsa Mercados Químicos, S.L
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Tel. (+34) 935 721 100 Fax (+34) 935 720 934
jsantamaria@merquinsa.com
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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.

Hazard when using with solvents: When handling this product the friction could develop a hazardous charge of static electricity with the risk of fire or explosion when dealing with flammable solvents (see section 7).

Hazard when using the product at high temperatures: If ventilation is inadequate, high temperatures may generate fumes and vapours sufficient to cause eye, skin and upper respiratory tract irritation.

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.

MATERIAL SAFETY DATA SHEET
According Regulation (CE) No. 1907/2006

Product: PEARLSTICK® 45-90/12

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.

For solvent based products, when solvent substances are used, first aid measures should be taken using the instructions supplied by the solvent manufacturers.

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

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 spillage, sweep up material and place in containers for re-use or disposal.

MATERIAL SAFETY DATA SHEET
According Regulation (CE) No. 1907/2006

Product: PEARLSTICK® 45-90/12

Section 7. Handling and storage

Static electricity can be generated when pouring product from bags into flammable solvents. Stirring non-polar solvents could also build up static electricity.

If this charge is not rapidly eliminated it will eventually developed enough energy to create a spark to some nearby grounded or less charged object. Bonding and grounding provide ways to dissipate static electricity before sparks occur.

Bonding conductive parts (metal equipment) equalizes the potential charge and grounding to the earth drains the static charges away as quickly as they are produced.

Avoid manual and direct addition of material to a vessel containing flammable solvents.

Avoid vigorous stirring and limit the speed of the agitator to the maximum.

Perform the operations under a nitrogen blanket.

Operators should wear anti-static footwear and should stand on an earthy conducting surface.

This product is packaged on a suitable antistatic bag that allows static electricity to dissipate.

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

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

Pellets on the floor may be slippery and cause falls.

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 dealing with solvents or 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.

MATERIAL SAFETY DATA SHEET
According Regulation (CE) No. 1907/2006

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Section 9. Physical and chemical properties

Appearance:	White to yellowish spherical granules.
Odour:	Not noticeable.
Boiling point / range:	Not applicable.
Melting point / range:	At temperatures above 150º 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 Acetone and MEK.
Viscosity at 20º C:	Not applicable.

Section 10. Stability and reactivity

Product is stable at room temperature.

Hazardous decomposition products: Thermal breakdown products (combustion) 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.

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 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.

MATERIAL SAFETY DATA SHEET
According Regulation (CE) No. 1907/2006

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Section 12. Ecological information

No adverse effects expected from this product as supplied.

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 as hazardous waste.

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

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

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.

MATERIAL SAFETY DATA SHEET
According Regulation (CE) No. 1907/2006

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Section 16. Other information

Disclaimer of responsibility

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