



Safety Data Sheet (SDS) – Regulation (EC) No 1907/2006 (REACH)

Product: POLYSTYRENE
Issue Date: January 1, 2026

1. Identification of the substance or mixture and of the company / undertaking

Name of product: Polystyrene
Material use: Raw material for plastic production

Company: TPP Techno Plastic Products AG
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2. Composition / information on ingredients

Chemical name: Polystyrene polymer
CAS No.: 9003-53-6
EC No.: 202-851-5

This product is not classified as hazardous according to Regulation (EC) No 1272/2008 (CLP) and Regulation (EC) No 1907/2006 (REACH).

3. Hazard identification

Not classified as hazardous under Regulation (EC) No 1272/2008 (CLP).

4. First-aid measures

Route of exposure:
Inhalation: Not anticipated under recommended usage conditions. After inhaling decomposition products, remove the affected person to a source of fresh air and keep calm. Provide medical aid.

Skin contact: Not anticipated under recommended usage conditions.
Eye contact: Not anticipated under recommended usage conditions.
Note to physician: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

5. Fire-fighting measures

Suitable extinguishing media: Water, dry extinguishing media, foam.
Specific hazards: Thermal decomposition may produce carbon monoxide, carbon dioxide, styrene monomer, and other aromatic hydrocarbons. Use appropriate respiratory protection.

Special protective equipment: For firefighters: wear suitable breathing equipment, in case of risk of exposure to vapor or fumes, small amounts of hydrocarbons or volatile organic compounds may also be emitted during decomposition at very high temperatures.

Further information: Dispose of fire debris and contaminated extinguishing water in accordance with official regulations. Polystyrene may soften, melt, and drip when exposed to high heat and may cause burns.



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6. Accidental release measures

No special measures are required if the filters are in an unused condition. Dispose waste in accordance with local or national regulations.

7. Handling and storage

Handling: Processing machines must be fitted with local exhaust ventilation. Protection against fire and explosion: When the product is ground (chopped), dust explosion regulations should be noted.

Storage: Further information on storage conditions: Protect against moisture. Avoid prolonged storage at very high temperatures (>200 °C).

8. Exposure controls and personal protection

Components with workplace control parameters. Observe the appropriate MAK value (Germany). The values and other data of TRGS 900 (Germany) must be observed. Given suitable ventilation, it can be assumed that the threshold limits will not be reached.

Personal protective equipment

Respiratory protection: Particle filter, low efficiency (solid particles of inert substances)

Eye protection: Safety glasses

General: Safety and hygiene measures: Avoid inhalation of dust or fumes generated during thermal processing or cutting.

Solubility in water: Insoluble

9. Physical and chemical properties

Form: Pellets

Color: Solid, translucent

Odor: Odorless

Glass transition temperature (T_g): Approx. 90–105 °C

Melting point: Not applicable (amorphous polymer)

Ignition temperature: >490 °C

Density: Approx. 1.04–1.06 g/cm³

10. Stability and reactivity

Chemical stability: Stable under normal conditions. Thermal decomposition may produce carbon monoxide, carbon dioxide, styrene monomers, and minor aromatic hydrocarbons.

11. Toxicological information

General: The product is not classified as hazardous to human health.

12. Ecological information

The product is not considered dangerous for the environment.

Biodegradation: This substance is slowly biodegradable.

Bioaccumulation potential: Potential bioaccumulation of the product in environment is very low.



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13. Disposal considerations

Waste of disposal must be according to local regulations. Do not discharge the product into the environment.

14. Transport information

Not restricted for transport (ADR/RID, IMDG or ICAO/ATA)

15. Regulatory information

Not classified as hazardous according to Regulation (EC) No 1272/2008 (CLP).

Contains no REACH substances with Annex XVII restrictions.

Contains no substances on the REACH candidate list.

Contains no REACH Annex XIV substances.

16. Other information

The information contained herein is based on the present state of our knowledge and does not therefore guarantee certain properties. Recipients of our product must take responsibility for observing existing laws and regulations. To the best of our knowledge, the information contained herein is accurate. However, neither TPP nor any other supplier of TPP products assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that this is the entire list of possible endangering that might arise. During product improvement, TPP reserves the right to change the raw material without further notice.

17. Disclaimer

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