



Material Safety Data Sheet according to EEC-Regulation 91/155/EEC

Product: **POLYSTYRENE**

Issue Date: May 1, 2019

1. Identification of the substance / preparation and of the company / undertaking

Name of product: Polystyrene

Material use: Polymers

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

Chemical name: Polystyrene

Contains no substance classified as hazardous in concentrations, which should be taken into account according to EC directives.

3. Hazard identification

No hazards to our knowledge, this product does not present any particular risk, provided it is handled in accordance with good safety practice.

4. First-aid measures

Route of exposure:

Inhalation: After inhalation of decomposition products, remove the affected person to a source of fresh air and keep calm. Provide medical aid.

Skin contact: Areas affected by molten material should be quickly placed under cold running water.

Eye contact: Wash affected eyes for at least 15 minutes under running water with eyelids held open.

Note to physician: Treat according to symptoms (decontamination, vital functions), no known specific antidote.



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5. Fire-fighting measures

Suitable extinguishing media: Water, dry extinguishing media, foam
Specific hazards: Principal toxicant in the smoke is carbon dioxide, carbon monoxide.
Special protective equipment: For firefighters: wear suitable breathing equipment, in case of risk of exposure to vapor or fumes.
Further information: Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

6. Accidental release measures

Suck or sweep up spill. All spill of material must be removed immediately to prevent slipping accidents. 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.

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 vapor
Solubility in water: Insoluble



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9. Physical and chemical properties

Form: Pellets
Colour: Colourless, clear
Odour: Faint
Softening temperature: > 70 – 100 °C (DIN/EN/ISO 306)
Ignition temperature: > 490 °C
Density: mass at 20 °C: 1.05 g/cm³ (ISO 1183)

10. Stability and reactivity

The product is a stable thermoplastic, with no chemical reactivity. Thermal decomposition: approx. 250 °C, to avoid thermal decomposition, do not overheat.

11. Toxicological information

The product is not classified as dangerous preparation according to Directive 1999/45/EC.

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.

13. Disposal considerations

Waste of disposal must be according to local regulations. May be used as fuel in suitable designed installations. 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 according to Annex I, Directive 67/548/EEC (dangerous substances) and 1999/45/EC (dangerous preparations).

Contains no REACH substances with Annex XVII restrictions.

Contains no substances on the REACH candidate list

Contains no REACH Annex XIV substances



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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 what so ever 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 can not guarantee that this is the entire list of possible endangering that might arise.

In the course of product improvement TPP reserves the right to change the raw material without further notice. The Material Safety Data Sheet will be provided upon request.