SYMALIT® PVDF 1000



1. Product and company identification

Commercial product name: SYMALIT® PVDF 1000

Company (manufacturer): Quadrant EPP AG

Hardstrasse 5 CH – 5600 Lenzburg Tel.: +41/(0)62/885 81 50 Fax: +41/(0)62/885 81 81

2. Composition and information on ingredients

This product is a Chemical substance.

Chemical characterization (eventually with synonyms): Polyvinylidenefluoride homopolymer

Chemical structure: PVDF $[CH_2 - CF_2]_n$

CAS Nr. ('Chemical Abstract Service Registry Number'): 24937-79-9

3. Hazards identification

Most important hazards: No critical hazards for man and environment in case of normal

storing, handling and usage.

Specific hazards: Not applicable

4. First-aid measures

In case the plastic burns and combustion gases are inhaled,

immediately leave the room and get medical help.

In case molten material comes in contact with the skin, the skin needs to be rinsed thoroughly with cold water. Do not try to remove the

molten material. Get medical assistance for the removal of the tacky

material and care of the burn.

5. Fire-fighting measures

Suitable extinguishing media: Water, foam, dry chemical, CO₂.

Extinguishing media which must not be used for safety reasons: None.

Special exposure hazards arising from the substance or preparation itself, combustion products or

resulting gases: see section 10.

Special protective equipment for fire-fighters:

Firemen should wear self-contained breathing apparatus and protective clothing to prevent contact with skin and/or eyes. If exposed to combustion fumes in a high concentration, bring the victim into fresh air. If molten material contacts skin, cool rapidly with cold water and obtain medical attention for removal of adhering material and treatment of the burn.

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6. Accidental release measures

Personal precautions: Not applicable

Environmental precautions: See sections 12 & 13

Methods for cleaning up: See section 13

7. Handling and storage

Handling:

Technical measures: Not applicable Precautions: Not applicable

Safe handling advice: During machining of the stock shapes, evacuate swarf to prevent

slipping or tripping hazard.

Storage:

Technical measures: Not applicable

Safe storage conditions: Inert under normal storage conditions

Incompatible products: Not applicable Safe packaging materials: Not applicable

8. Exposure controls / personal protection

Engineering measures to minimize worker exposure: None

Personal protection:

Appearance:

Respiratory protection:

None (except when the product burns – cfr. sections 4 & 10).

Hand protection:

Gloves in case of frequent contact with warm material.

Eye protection: Safety goggles during machining.

Industrial hygiene: Follow good standard industrial practice. Wash hands before breaks and

at the end of the workday. Do not eat, drink or smoke during handling.

9. Physical and chemical properties

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Form: Semifinished products (pipe, plate, lining laminate and rod) **Colour:** Natural (white)

Odour: No special odour

Change in physical state: Boiling point/boiling range: not applicable

Melting point/melting range: 165 - 178°C

Flash point: Not applicable

Vapour pressure: Not applicable

pH: Not applicable

Density (at 23℃): 1.76 - 1.79 g/cm³ ISO 1183

Solubility in water: Negligible

Thermal decomposition: > 350 C

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10. Stability and reactivity

Stability: In normal circumstances, the plastic and its chips are stable.

Conditions to avoid: To avoid thermal decomposition, do not overheat. Hazardous

decomposition products may be produced when the recommended

processing temperatures or times are exceeded.

Hazardous decomposition products: The main products formed in case of overheating or combustion are

apart from harmless H₂O and CO₂, mainly CO (depending of the amount of available environmental oxygen), HF and fluorophosgene.

11. Toxicological information

Acute toxicity: This material is not considered as begin harmful to human health.

Local effects: Not applicable

12. Ecological information

This material does not harm the environment but is not biologically degradable.

13. Disposal consideration

Residual waste: When recycling is impossible, incineration or landfill. Disposal

methods must conform to local or other government regulations. This product does not contain cadmium pigments or cadmium stabilizers.

Contaminated packaging: Not applicable

14. Transport information

International regulations: Not applicable

15. Regulatory information

Classification and labeling: according to the relevant EU-directives is not required.

16. Other information

Read the product information brochures before using Quadrant EPP materials.

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