



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

Product: **Hydrophobic PTFE Membrane**

Issue Date: May 1, 2019

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

Name of product: Hydrophobic PTFE Membrane

Company: TPP Techno Plastic Products AG
Zollstrasse 7
8219 Trasadingen
Switzerland
Tel. +41 (52) 687 01 87
Fax +41 (52) 687 01 77
E-mail address: info@tpp.ch

2. Composition / information on ingredients

Chemical name: Hydrophobic PTFE Membrane

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: Not anticipated under recommended usage conditions.
After inhalation of 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.



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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.
Unusual Hazards:	Fire and Explosive: Does not burn without external source of fuel. Fluoropolymers can increase the relative toxic properties of the gases evolved during a fire.
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

Normal Handling	Product is physiologically inert and non-toxic at normal temperatures. Above 250 °C, some decomposition of PTFE products can be expected with evolution of gaseous and particulate products, which are toxic if inhaled. This can give rise to a characteristic syndrome with influenza-type symptoms known as “polymer fume-fever.” These symptoms subside within 24 to 48 hours away from further exposure with no long-term effects. Keep away from ignition sources. Do not smoke while using fluoropolymers.
Storage Recommendations	No special requirements



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8. Exposure controls and personal protection

Ventilation	Ensure good ventilation or exhaust if there is the possibility of fumes being evolved. Not required if material is used within specified usage parameters.
Fire and Explosion	Not applicable
Personal Protective Equipment	None required if material is used within specified usage parameters. Normal safety equipment should always be used in an industrial environment.
Additional Recommendations	Wear heat-resistant clothing and skin covering when working with hot product. Do not smoke while handling material. Keep tobacco products away from sources of contamination: hands and clothes.
Engineering Controls	Provide local exhaust to control large quantities of dust. All heated processing equipment must be vented safely to prevent the inhalation of thermal decomposition products.
Other Exposure	Limits for Potential Decomposition Products not available

9. Physical and chemical properties

Form:	solid
Colour:	white
Odour:	odourless
Melting temperature:	PTFE approx.. 320 °C Substrate Approx. 170 °C
Ignition temperature:	n/a

10. Stability and reactivity

Chemical Stability	Stable. Thermal degradation can begin at 250 C.
Incompatibilities/Reacts	Reacts with molten alkali metals, inter-halogen compounds, strong oxidizers, and sodium-potassium alloy. Will burn in atmosphere of 95 % oxygen, when an ignition source is present.
Hazardous Decomposition Products	Thermal decomposition will evolve hydrofluoric acid, carbonyl fluoride, and other perfluoro olefins.
Hazardous Polymerization	Will not occur

11. Toxicological information

General	No potential health hazards when used within processing guidelines. Fluoropolymers are physiologically inert and are considered non-toxic.
Toxicity of Product	Non-toxic when used within recommended guidelines
Other Data	None



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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 applicable

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 cannot 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.