

Material Safety Data Sheet

PVDF.

Identification of the Substance / Preparation & Company.

Commercial Product Name: Polyvinylidene Fluoride - PVDF

Use: Polymer

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Classification: Not classified

Physical / chemical hazards: Flammable

Health risks: Dust can cause mechanical irritation.

Hazards for the environment: Based on our information, there is no danger to the environment.
The product is according to Directive 1999/45/EC and its annexes are not classified as dangerous.

Composition / Information on Ingredients.

Chemical characterization: Polyvinylidene Fluoride (PVDF).

Hazardous substances: Product contains no hazardous ingredients liable to be disclosed.

First Aid Measures.

General information: The product is being classified as non-noxious.

In case of inhalation: In case the plastic burns and combustion gases are inhaled, remove person to fresh air and keep warm and get medical

help if necessary.

In case of skin contact: Burns caused by molten material on skin need to be rapidly cooled down with water; do not attempt removal of plastic without medical assistance. If irritation develops, seek medical attention.

In case of eye contact: Flush eyes well with copious quantities of water. Seek medical attention, if irritation persists.

In case of ingestion: The product is non-noxious; no first aid procedures are required.

Firefighting Measures.

Suitable extinguishing media: Water, foam, gaseous and dry extinguishing media.
Particular endangerments by Fire fighting and hazardous Combustion products: Hazardous combustion products may emerge, apart from harmless water (H₂O); carbon dioxide (CO₂) and mainly carbon monoxide (CO) depending on the amount of available environmental oxygen, containing ketones and aldehyde. Formation of further decomposition and oxidation products depends upon the fire conditions. Under special fire conditions traces of other toxic substances are possible.

Firefighting: Approved pressure demand breathing apparatus and protective clothing should be used for all fires.

Additional information: Residues after the fire, after appropriate rules dispose.

Accidental Release Measures.

Personal precautions: N/A

Environmental precaution: N/A

Methods for cleaning up: Mechanical removal

Handling & Storage:

Advice on safe handling: During machining of the stock shapes, evacuate swarf to prevent slipping or tripping.

Storage: Store inert product dry and cool. Keep storage and working areas sufficiently ventilated. Keep away from source of flame, heat and ignition.
Due to the risk of collapsing, do not stack more than 2

pallets on top of each other. Pallets should not stack on top of each other along aisles.

Exposure Controls / Personal Protection.

Ingredients with occupational exposure limits to be monitored:	None.
Personal (body) protection General protective and hygiene measures:	Keep the workplace sufficiently ventilated; thereby smoking; eating and drinking are not allowed. Continuous supply of fresh air to the workplace together with removal of processing fumes through exhaust systems is recommended. Avoid breathing in gaseous degradation products and dust that may result by material overheating.
Hand protection:	Safety gloves in case of contact with warm material
Eye protection:	Safety goggles or shield during machining
Body protection:	Working clothes
Respiratory protection:	Adequate ventilation at workplace is required

Physical & Chemical Properties.

Physical state	(rods / plates / tubes)
Aggregate:	Solid
Colour:	Product-specific
Odour:	Slight, product-specific

Safety related facts

Boiling point:	N/A	
Melting point:	169 °C	(DIN/EN/ISO 3146)
Corrosion temperature:	>350 °C	
Flash point:	N/A	
Self-ignition temperature:	>400 °C	(ASTM D1929)
Explosion hazard or limit:	Non explosive	
Oxidizing characteristics:	None	
Density (20 °C):	1.78 g/cm ³	(ISO 1183)
Solubility (in water 20 °C):	Insoluble	
Viscosity:	N/A	

Stability & Reactivity.

Conditions to avoid:	Temperatures above melting point.
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Material to avoid:	Strong oxidant.	
Hazardous decomposition products:	Carbon monoxide	CAS-No. 630-08-0
	Hydrogen fluoride (HF)	CAS-Nr. 7664-39-3

Toxicological Information.

Toxicology: Based on our experience and information available, no adverse health effects are expected if handled as recommended with suitable precautions for designated uses.

Primary irritation on skin:	N/A
Primary irritation on eyes:	N/A
Sensitization:	Not known
Practical tests:	N/A
Additional information:	N/A

Environmentally-Specific Information.

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

Disposal Considerations.

The product must be disposed in accordance with the local authorities.

Transport Information.

Not classified as hazardous under transport regulations.

Legal Specifications.

European regulations (identification)
The product does not require a hazard warning label in accordance with EC directives.
National regulations (Germany)

GefStoffV:	No identification necessary.
WHG:	No water imperilling in terms of VwVwS.

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.