

## PFA - Material Safety Data Sheet

### Product Identification

Product Name:	PFA
Types:	340, 345, 345-T, 350, 350-T, 440-HP, 445-HP, 450-HP, 451-HP, 940-HP (Plus), 945-HP (Plus), 950-HP
Synonyms:	Poly (Hexafluoropropene/Tetrafluoroethylene)
Use of Substance:	Plastic material for further processing

### Physical and Chemical Properties

Form	Solid, granular, powder
Colour	White, translucent
Odour	None
PH	Not applicable
Melting point/range	290°C - 310°C
Auto ignition temperature	520°C - 560°C
Density	2, 15 g/cm <sup>3</sup>
Bulk density	1 220 kg/m <sup>3</sup>
Water solubility	Insoluble

### Health Hazard Data

No hazards to be specially mentioned.

### First Aid Measures

General advice	Remove from exposure, lie down. Never give anything by mouth to an Unconscious person. No hazards which require special first aid measures If a Person vomits when laying on his back, place him in the recovery position.
Eye Contact	Rinse thoroughly with plenty of water, also under the eyelids. Consult a physician.
Skin Contact	Cool skin rapidly with cold water after contact with molten material. Do not peel polymer from the skin. Consult a physician
Ingestion	No hazards which require special first aid measures Drink water as a precaution
Inhalation	Move to fresh air in case of accidental inhalation of fumes from overheating or combustion. Consult a physician after significant exposure.

### Fire Fighting Measures

Extinguishing media	Carbon Dioxide (CO <sub>2</sub> ), dry powder, foam, water
Special Fire Fighting Procedures	Under conditions giving incomplete combustion, hazardous gases produced may consist of: Carbon monoxide hydrogen fluoride
Protective equipment for fire-fighters	In the event of fire, wear self-contained breathing apparatus. Wear suitable protective equipment

### Accidental Release Measures

Personal precautions	Ventilate the area. Refer to protective measures listed in sections 7 and 8
Environmental precautions	No special environmental precautions required.
Methods for cleaning up	Clean up promptly by sweeping or vacuum. Sweep-up to prevent slipping hazard. Sweep up or vacuum up spillage and collect in suitable container for disposal
Additional advice	Use mechanical handling equipment. Contaminated surfaces will be extremely slippery.

### Exposure Controls

Advice on safe handling	No special handling advice required. In case of insufficient ventilation, wear suitable respiratory equipment. For personal protection see section 8. General precaution for all plastics and elastomers: Provide appropriate exhaust ventilation at dryers, machinery and at places where dust or volatiles can be generated. When opening containers, avoid breathing vapours that may be emanating. Protect from contamination.
Advice on protection against fire and explosion	Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours).
Storage Requirements for storage areas and containers	No special storage conditions required. Keep container tightly closed in a dry and well-ventilated place. Protect from contamination
Further information on storage conditions	None
Advice on common storage	No special restrictions on storage with other products.
Other data	No decomposition if stored and applied as directed.

### Exposure Controls

Engineering measures	Ensure adequate ventilation, especially in confined areas.
Respiratory protection	When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Suitable respiratory equipment: Half mask with a particle filter FFP2/FFP3 (EN149)
Hand protection	Protective gloves (Type : Kevlar® - heat resistant, use possible until worn out)
Eye protection	Safety glasses with side-shields
Skin and body protection	If there is potential contact with hot/molten material, wear heat resistant clothing and footwear. Regular cleaning of equipment, work area and clothing.
Hygiene measures	Wash hands before breaks and at the end of workday. General precaution for all plastics and elastomers: Do not breathe fumes evolved from hot polymer.

### Stability and Reactivity

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 reactions	None Further information During drying, purging and moulding, small amounts of hazardous gases and/or particulate matter may be released. These may irritate eyes, nose and throat. Large molten masses may give off hazardous gases No decomposition if used as directed

### Toxicological Information

Acute inhalation toxicity	The thermal decomposition vapours of fluorinated polymers may cause polymer fume fever with flu-like symptoms in humans, especially when smoking contaminated tobacco.
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### Disposal Considerations

Product	Like most thermoplastic plastics the product can be recycled. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations. Can be landfilled, when in compliance with local regulations.
Contaminated packaging	Empty containers should be taken for local recycling or waste disposal.

### Transport Information

Not classified as dangerous in the meaning of transport regulations.

### Regulatory Information

Labelling according to EEC Directive	The product does not need to be labelled in accordance with Directive 1999/45/EC or Annex VI to 67/548/EEC.
Recommended restrictions	Do not use in medical applications involving permanent implantation in the human body.

### Disclaimer

To the best of our knowledge the information contained in this publication is accurate; however, we do not assume any liability whatsoever for the accuracy or completeness of such information. We strongly recommend that users seek and adhere to the manufacturer's or supplier's current instructions for handling each material they use and they satisfy themselves that they can meet all applicable safety and health standards. This information is based upon technical information believed to be reliable. It is subject to revision as additional knowledge and experience is gained.