Material safety data sheet

CENTROFLON / PVDF

Identification of the substance / preparation and company

Commercial Product Name:	CENTROFLON
Use:	Polymer
Company:	Centroplast Engineering Plastics GmbH Unterm Ohmberg 1 D-34431 Marsberg Tel. +49 2992 9704 – 700 Fax +49 2992 9704 – 30 info@centroplast.de
Emergency telephone number:	Monday – Thursday: 08:00 am – 4:30 pm Friday : 08:00 am – 2:00 pm Tel. +49 2992 9704 – 700 Fax +49 2992 9704 – 30

Hazards possibilities

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.

Material safety data sheet

CENTROFLON / PVDF

Fire fighting 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.
Fire fighting:	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 and 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.

Material safety data sheet

CENTROFLON / PVDF

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 and 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 ℃	(DIN/EN/ISO 3146)
Corrosion temperature:	>350 ℃	
Flash point:	N/A	
Self-ignition temperature:	>400 ℃	(ASTM D1929)
Explosion hazard or limit:	Non explosive	
Oxidizing characteristics:	None	
Density (20 ℃):	1.78 g/cm³	(ISO 1183)
Solubility (in water 20 ℃):	Insoluble	
Viscosity:	N/A	

Material safety data sheet

CENTROFLON / PVDF

Stability and reactivity

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

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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.