



Material Safety Data Sheet

Part 1 – Product and Company Information

Product Name:	Syringe Filter
Product Number:	S13LS, S13LV, S13LT, S25LS, S25LV, S25LT, S33LS, S33LV and S33LT Series Devices.
Company:	Hangzhou ANOW Microfiltration Co., Ltd. Room 903, Central Building, No.271, Hushu South Road, Hangzhou, 310005, China
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Part 2 – Composition and Information on Ingredients

Component	CAS No.	EINECS No.	Function
Polyethersulphone (PES)	25667-42-9	-	S13LS, S25LS and S33LS filtration membrane
Polytetrafluoroethylene (PTFE)	9002-84-0	204-126-9	S13LT, S25LT and S33LT filtration membrane
Polyvinylidene fluoride (PVDF)	24937-79-9	200-867-7	S13LV, S25LV and S33LV filtration membrane
Polypropylene (PP)	9003-07-0	-	Housing

Part 3 – Hazard Identification

Appearance:	White membrane filter media encased in a solid polymer (plastic) syringe housing.
Hazards:	Under normal operating temperature and pressure conditions, these devices do not present a hazard. Membrane should be considered to be a combustible solid.

Part 4 – First Aid Measures

Ingestion:	These devices are not likely to be hazardous by ingestion. Consult a physician if necessary.
Eyes:	Because of the size and solid nature of these devices they are not expected to present an eye injury hazard.
Inhalation:	These devices do not present an inhalation hazard because of the non-volatile nature of the polymeric component materials.
Skin:	These devices are not likely to be hazardous by skin contact, but cleansing the skin is advisable.

Part 5 – Fire Fighting Measures

Extinguishing Media:	Water, Foam, Dry Chemicals, CO ₂
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Fire Fighting Instructions: Wear self-contained breathing apparatus. Wear full protective equipment.
Wear neoprene gloves when handling refuse from fire.

Part 6 – Accidental Release Measures

Spills and Leaks: Because of the integral nature of the devices, they do not release materials to the environment when used within recommended operating temperature and pressure conditions.

Part 7 – Handling and Storage

Store in a cool and dry place, out of direct sunlight and away from sources of heat and incompatible chemicals.

Part 8 – Personal Protection and Exposure Control

Under normal operating conditions, personal protective equipment, mechanical ventilation and respiratory protection are not required.

Part 9 – Physical and Chemical Properties

Component:	PP	PTFE	PES	PVDF
Physical State:	white pellets	white membrane	white membrane	white membrane
Density:	0.9	2.1~2.3	1.37~1.51	1.76
Odor:	None	None	None	None
Water Solubility:	Insoluble	Insoluble	Insoluble	Insoluble
Melting Point:	157°C	327~342°C	200~220°C	160~170°C

Part 10 – Stability and Reactivity

Chemical Stability: Stable at normal temperature and pressure conditions.

Incompatible with: PES: Acetone, chloroform
PVDF: strong alkaline, ester and ketone
PP: strong oxidizing agents, chlorine, permanganates
PTFE: Finely divided metal powders, potent oxidizers like fluorine and related compounds

Decomposition/Combustion products: The nature and concentration of various decomposition and combustion products that will result from heating of these polymers will vary depending upon variables such as temperature, oxygen and water vapor concentration, and the presence of other materials. The possible products, include, but are not limited to those shown below:
PES: toxic fumes like SO₂, carbon oxides, benzene and related compounds
PVDF: toxic and irritating fumes and gases including hydrogen fluoride and oxides of carbon.
PP: carbon oxides, acrolein, formaldehyde-like
PTFE: toxic polymer fumes, hydrogen fluoride and carbonyl fluoride

Part 11 – Toxicological Information

Carcinogenicity: No components are listed as carcinogenic by IARC.

Endocrine Disrupters: To the best of our knowledge, none of the components are suspected endocrine disrupters.

Part 12 – Ecological Information

Due to the inert nature of the polymeric materials in these devices, it is expected that they will have very limited biodegradability in water or soils.

Part 13 – Disposal Information

Preferred options for waste disposal are: (1) recycling and (2) landfill. Incinerate only if incinerator is capable of scrubbing out toxic combustion products. Treatment, storage, transportation, and disposal must be in accordance with applicable national, state/provincial, and local regulations.

Part 14 – Transportation Information

Not dangerous goods

Part 15 – Regulatory Information

This safety datasheet complies with the requirements of national regulations.

Part 16 – Additional Information

Warranty

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. And the information in this document is based on the present state of our knowledge. ANOW makes no warranty with respect to such information and assumes no liability for any loss or injury which may result from the use of this information. Users should conduct their own investigations to determine the suitability of the information.