

PRODUCT SAFETY DATA INFORMATION

Date: 1 July 2024

Data Sheet Number: PSDS GPS-00197rev1

SECTION 1 – Product Identification

This 'Product Safety Data Information' Sheet covers Food contact compliant filter cartridges containing Polyethersulfone (PES) membrane(s)

Example Product name(s): Fuente II Filter Cartridges, Fuente Colloid Removal Filter, MEMBRACart XL II Filter Cartridges, MEMBRACart XP Filter Cartridges, Oenopure™ Filter Cartridges, Supor® Beverage Filter Cartridges, Pall® Beer Final Filter, Pasteurizer Replacement (PAREQ*) Filter Cartridges

Example Part Number(s): See Appendix 1

The filters detailed above are not intended for patient protection applications.

For further information on Pall products, please visit Pall at <https://www.pall.com/en/about-pall.html>

SECTION 2 - Hazards Identification

Product definition: Article.

These products are is not classified as hazardous according to REACH Regulation 1907/2006, or European CLP/GHS Regulation 1272/2008.

GHS Signal word: No signal word.

Hazard statements: No known

Special packaging requirements: None

SECTION 3 - Materials of Construction

3.1 The filters detailed in Section 1 are comprised of the following materials:

Material Name	CAS Number	Percentage Composition
Polyethersulfone	25667-42-9	0.8 – 4.2
Polypropylene	9003-07-0	92.7 – 97.7
Stainless Steel (316L)	Not applicable	1.3 - 4
Elastomer O-ring options Silicone or Ethylene propylene diene (EPDM)	Not applicable	<1

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PRODUCT SAFETY DATA INFORMATION

Date: 1 July 2024

Data Sheet Number: PSDS GPS-00197rev1

Plus, packaging comprised of the following materials:

Material Name	CAS Number	Percentage Composition
Polyethylene bagging	CAS: 9002-88-4	32.9 – 33.2
Cardboard box	n/a	65.8 – 66.4
Label	n/a	<1
Instructions for use	n/a	<1

These products not known to contain BADGE, NOGE, or BFDGE.

Trace additives will not be present in the plastic components.

There are no additional ingredients present which, within the current knowledge of the supplier, are classified and contribute to the classification of the article.

There are no current SVHC substances known to be present in the finished articles above 0.1%.

There are no current ROHS2 Directive (2011/65/EU) and amendment (2015/863) substances of concern (including Lead, Cadmium, Mercury, Hexavalent Chromium, Polybrominated biphenyl (PBB), Polybrominated diphenyl ether (PBDE), Bis(2-ethylhexyl) phthalate (DEHP), Benzyl Butyl Phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP)) known to be present in the materials employed in excess of the limits laid down, based on information from our suppliers and knowledge of substances used within Pall the manufacturing facility.

Pall filters do not employ natural rubber latex, or latex derivatives in their construction.

These products (see appendix 1) do not contain animal materials (*i.e.* animal parts, tissues, or body fluids). However, to assist our customers in performing a TSE/BSE risk assessment, we are pleased to provide the following information:

Pall filters for healthcare and laboratory applications may utilise components which are fabricated from plastic resins containing animal-derived additives at trace levels such as tallow-derived substances. Please be advised that tallow-derived additives are not considered specified BSE risk materials according to the current revision of the U.S. Code of Federal Regulations, Title 21 of part 189.5. Furthermore, the CPMP's *Note for guidance on minimising the risk of transmitting animal spongiform encephalopathies via human and veterinary medicinal products* (EMA410/01 rev 3) gives specific consideration to tallow derivatives and state they are unlikely to be infectious due to the rigorous processing steps used during their manufacture (an example of which is transesterification, or hydrolysis, at not less than 200 °C under pressure for not less than 20 minutes).

SECTION 4 - First Aid Measures

4.1 First aid measures

Always address any contaminants present on the filter as the result of use.

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PRODUCT SAFETY DATA INFORMATION

Date: 1 July 2024

Data Sheet Number: PSDS GPS-00197rev1

Eye Contact:	Eye injury could result from physical impact. Get medical attention immediately.
Inhalation:	Inhalation is not considered a likely route of exposure for the filter product as supplied by Pall.
Skin Contact:	Wash with soap and water. If irritation persists, get medical attention.
Ingestion:	This material is not intended for ingestion and is not expected to present an ingestion hazard in the form and quantities present in a workplace setting. However, if ingestion occurs, seek medical attention.
Protection of first-aiders:	No action shall be taken involving any personal risk or without suitable training.

4.2 Key symptoms and effects

No known significant effects or critical hazards related to the materials of construction of the filter as supplied.

SECTION 5 - Fire Fighting Measures

5.1 Extinguishing media

Select an extinguish medium suitable for surrounding / working environment.

For filter alone use dry chemical, CO₂, water spray (fog) or foam.

5.2 Specific Hazards

Hazards from the products: No specific fire or explosion hazard.

Hazardous thermal decomposition products: CO, CO₂, Acrid Smoke.

5.3 Advice to Fire Fighters

No special precaution required related to the filter. Fire-fighters should wear appropriate protective equipment, including self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

SECTION 6 - Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

No special measures are required in respect of the filters in the unused condition as supplied.

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PRODUCT SAFETY DATA INFORMATION

Date: 1 July 2024

Data Sheet Number: PSDS GPS-00197rev1

For used filters always address any contaminants present on the filter as the result of use.

6.2 Environmental precautions

For unused filter modules, place in designated waste container appropriate to the materials of construction listed in Section 3 and dispose of in accordance with local regulations via a licenced waste disposal contractor.

For used filter modules, using clear-up, containment and appropriate PPE measures related to the product being filtered and the materials of construction detailed in Section 3.

6.3 Spillage containment and cleaning up

Use suitable equipment to collect the filter material and place in a designated, labelled waste container.

Care should be taken to consider the nature of any contamination on the filter as the result of use and suitable PPE employed for handling waste.

Dispose of waste via a licensed waste disposal contractor.

SECTION 7 – Handling and Storage

7.1 Handling

Put on appropriate personal protective equipment for the working environment (See Section 8). Consult details of product being filtered for specific advice. Avoid activities that can damage the filter.

Follow good hygiene practices. Eating, drinking and smoking are generally prohibited in areas where this product is handled, stored or processed – exceptions are made on the guidance of local medical advice. Staff must follow standard work-place hygiene before eating, drinking or smoking after using this product. Wear gloves to prevent contamination of the filter cartridge and maintain cleanliness of the unused filter.

7.2 Storage

In the received condition, special protective equipment is not needed during handling and normal use of these filters. In the received condition, suitable gloves must be worn when handling these filters out of their packaging.

Gloves are also recommended to prevent contamination of the filter cartridge and maintain cleanliness. Handling of used filters must take into account the nature of the process fluids used and potential contaminant. The article is supplied dry, without the presence of any preserving fluid. Store in a cool, clean environment. Handle with care to avoid damage or abrading.

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PRODUCT SAFETY DATA INFORMATION

Date: 1 July 2024

Data Sheet Number: PSDS GPS-00197rev1

Store at temperatures between 0°C and 30°C, in dry conditions. For conditions outside of these limits consult Pall for specific recommendations.

Do not expose to direct sunlight or other radiation or direct weather conditions.

Store in original shipping bag or boxing.

Ensure careful handling to avoid physical damage. Ensure shipping bag and seals are intact prior to use. Plastics can be damaged if roughly handled – particularly at sub-zero temperatures. Thermal shock by quickly raising the temperatures from sub-zero should be avoided.

Pall recommends a visual inspection prior to use. Do not use if the product or packaging is damaged (please contact Pall for further advice).

Please also consult the Pall instructions for use information on the product prior to use.

SECTION 8 - Exposure Controls/Personal Protection

8.1 Control parameters

Occupational Exposure limits: None required

Recommended monitoring procedures: None required

8.2 Exposure controls

There are no special ventilation requirements for the article as supplied in the new and unused condition.

Hygiene Measures: No special measures required. Good hygiene practice in line with local working environmental requirements and medical guidelines.

Hand protection: Disposable gloves are recommended to ensure filter remains clean during installation.

Environmental Exposure Controls: Not normally required for the filter itself as supplied.

After the filter has been used additional exposure controls care should be taken in line with the nature of any contaminant on the filter as a result of its use.

PRODUCT SAFETY DATA INFORMATION

Date: 1 July 2024

Data Sheet Number: PSDS GPS-00197rev1

SECTION 9 - Physical and Chemical Properties

Appearance:	Disposable filter
Physical state:	Solid
Colour:	Colorless with white membrane
Solubility:	Insoluble in water
Auto-ignition temperature:	
	PES components: 580°- 600°C, thermal decomposition >400°C
	Polypropylene typically > 315 °C (600 °F)
	Polyethylene typically > 330 °C (630 °F)
Sensitive to shock:	Mechanical / thermal shock can result in damage to the filter

SECTION 10 – Stability and Reactivity

Reactivity:	The filter is stable under the recommended conditions of use and storage.
Chemical Stability:	The filter is stable under recommended conditions of use and storage.
Hazardous Polymerisation:	Polymerisation will not occur under recommended conditions of use and storage.
Other hazardous reactions:	Consult details of product being filtered for specific advice. Under normal conditions of storage and use, no hazardous reactions will occur.
Conditions to Avoid:	Avoid conditions that soften, swell or adversely affect the filter or its materials of construction. Do not allow fluids to freeze on the filter.
Incompatible Materials:	Strong Acids, Strong Alkalis, Strong Oxidising Agents.
Decomposition Products:	Under recommended conditions of use or storage, no hazardous decomposition products will be produced.

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PRODUCT SAFETY DATA INFORMATION

Date: 1 July 2024

Data Sheet Number: PSDS GPS-00197rev1

SECTION 11 - Toxicological Information

The information in this section contains generic advice and guidance in respect of the unused filter as supplied. Consult SDS details of the product being filtered for specific advice and recommendations.

11.1 Acute Toxicity

Based on typical information for the material type named, this information has not been determined specifically for Pall Medical filters:

Material Name	Result	Species	Dose	Exposure
Polypropylene	LD50 Oral	Rat	➤ 8 g/kg	

Irritation/Corrosion/Sensitisation: No known concern to unused filter as supplied

Mutagenicity / Carcinogenicity / Reproductive Toxicity / Teratogenicity: No known concern for the materials of construction of the filter as supplied (new and unused)

Aspiration Hazard: Not applicable for un-used filter.

Potential acute health effects: No known significant effects or critical hazards for the unused filter as supplied.

11.2 Chronic health effects

No known significant effects or critical hazards for the unused filter as supplied.

Carcinogenicity: No specific test data available, no evidence for hazardous properties

SECTION 12 - Ecological Information

Pall filters are not expected to degrade in contact with soil or water under ambient conditions.

SECTION 13 - Disposal Information

The information in this section contains generic advice and guidance.

Product

Methods of disposal:

Unused as supplied filters: Disposal/handling of the un-used filters should be in-line with national legislation and local regulatory requirements for the materials present. Unused filter cartridges may be used as land-fill.

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PRODUCT SAFETY DATA INFORMATION

Date: 1 July 2024

Data Sheet Number: PSDS GPS-00197rev1

Hazardous Waste: To the best of our knowledge, this product if unused is not regarded as hazardous waste as defined by the EU Directive 91/689/EEC and amendments.

Used filter cartridges should be disposed of as clinical waste due to the nature of the contaminants on the filters as a result of use. Therefore, used filters may be classified as hazardous – clinical waste.

Packaging

Bagging: Plastic (polyethylene)

Box: Cardboard

The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled where suitable arrangements and facilities exist. Incineration or land-fill should only be considered where re-cycling is not feasible.

SECTION 14 - Transport Information

The clean and un-used filter, supplied in its original packaging, is not classified as dangerous goods under ADR, RID, IMDG or IATA regulations.

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Notice to Reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above Pall Corporation, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any materials 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 these are the only hazards that exist.

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PRODUCT SAFETY DATA INFORMATION

Date: 1 July 2024

Data Sheet Number: PSDS GPS-00197rev1

APPENDIX 1: Example part numbers

Fuente II Filter Cartridges AB Style "W" Code

Cartridge Part Numbers

AB FFN W

Table 1 Table 2 Table 3

This is a guide to the part numbering structure only. For specific options, please contact Pall.

Table 1 : Nominal Length

Code	Description
1	254 mm (10")
2	508 mm (20")
3	762 mm (30")
4	1016 mm (40")

Table 2 : Adaptor

Code	Description
3	SOE – single open end with flat closed end and external 222 O-rings
7	SOE – single open end with fin end, 2 locking tabs and external 226 O-rings
8	SOE – single open end - with fin closure end and external 222 O-Rings on open end.
28	SOE – single open end with fin end, 3 locking tabs and external 222 O-

Table 3 : O-ring Seal Material

Code	Description
H4	Silicone Elastomer
J	Ethylene Propylene Rubber

Fuente Colloids Filter Cartridges AB Style "W" Code

Cartridge Part Number

AB FSC W S

Table 1 Table 2

This is a guide to the Part Numbering structure only. For specific options, please contact Pall.

Table 1 : Nominal Length

Code	Description
1	254 mm (10")
2	508 mm (20")
3	762 mm (30")
4	1016 mm (40")

Table 2 : Adaptor

Code	Description
3	SOE – single open end with flat closed end and external 222 O-rings
7	SOE – single open end with fin end, 2 locking tabs and external 226 O-rings
8	SOE – single open end with fin end and external 222 O-rings
28	SOE – single open end with fin end, 3 locking tabs and external 222 O-rings

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PRODUCT SAFETY DATA INFORMATION

Date: 1 July 2024

Data Sheet Number: PSDS GPS-00197rev1

Pall® BB Final Beer Filter Cartridges AB Style "W" Code

Cartridge Part Number

AB  BB  W H32

Table 1 Table 2

This is a guide to the Part Numbering structure only. For specific options, please contact Pall.

Table 1 : Nominal Length

Code	Description
1	254 mm (10")
2	508 mm (20")
3	762 mm (30")
4	1016 mm (40")

Table 2 : Adaptor

Code	Description
7	SOE - single open end with fin end and external 226 O-rings
8	SOE - single open end with fin end, plug-in style and external 222 O-rings
28	SOE - single open end with fin end, bayonet lock and external 222 O-rings

Oenopure™ Filter Cartridges AB Style "W" Code

Cartridge Part Number

AB    W 

Table 1 Table 2 Table 3 Table 4

This is a guide to the Part Numbering structure only. For specific options, please contact Pall.

Table 1 : Nominal Length

Code	Description
1	254 mm (10")
2	508 mm (20")
3	762 mm (30")
4	1016 mm (40")

Table 2 : Microbial Removal Rating

Code	Description
GB	0.45 µm
GK	0.65 µm

Table 3 : Adaptor

Code	Description
3	SOE - single open end with flat closed end and external 222 O-rings
7	SOE - single open end with fin end, 2 locking tabs and external 226 O-rings
8	SOE - single open end with fin end and external 222 O-rings
28	SOE - single open end with fin end, 3 locking tabs and external 222 O-rings

Table 4 : O-ring Seal Material

Code	Description
H4	Silicone Elastomer
J	Ethylene Propylene Rubber

PRODUCT SAFETY DATA INFORMATION

Date: 1 July 2024

Data Sheet Number: PSDS GPS-00197rev1

MEMBRAcart XL II Filter Cartridges

"W" Code

Cartridge Part Number

419A  W    P

Table 1 Table 2 Table 3 Table 4

This is a guide to the Part Numbering structure only. For specific options, please contact Pall.

Table 1 : Microbial Removal Rating

Code	Description
020	0.2 µm
045	0.45 µm
065	0.65 µm

Table 2 : Adaptor

Code	Description
03	SOE – single open end with flat closed end and external 222 O-rings
07	SOE – single open end with fin end and external 226 O-rings
08	SOE – single open end with fin end and external 222 O-rings
41	SOE – single open end with fin end, 3 locking tabs and external 222 O-rings

Table 3 : Nominal Length

Code	Description
1	254 mm (10")
2	508 mm (20")
3	762 mm (30")
4	1016 mm (40")

Table 4 : O-ring Seal Material

Code	Description
S	Silicone Elastomer
E	Ethylene Propylene Rubber



PRODUCT SAFETY DATA INFORMATION

Date: 1 July 2024

Data Sheet Number: PSDS GPS-00197rev1

DECLARATION OF COMPLIANCE
MEMBRAcart XP Filter Cartridges
"W" Code**Cartridge Part Number**AB M X W
Table 1 Table 2 Table 3 Table 4AB MQX W
Table 1 Table 3 Table 4

This is a guide to the Part Numbering structure only. For specific options, please contact Pall.

Table 1 : Nominal Length

Code	Description
1	254 mm (10")
2	508 mm (20")
3	762 mm (30")
4	1016 mm (40")

Table 2 : PES Media Grade

Code	Description
B	0.45 micron
K	0.65 micron

*MQX Beer Applications only

Table 4 : O-ring Seal Material

Code	Description
H4	Silicone Elastomer
J	Ethylene Propylene Rubber

Table 3 : Adaptor

Code	Description
3	SOE – single open end with flat closed end and external 222 O-rings
7	SOE – single open end with fin end and external 226 O-rings
8	SOE – single open end with fin end and external 222 O-rings
28	SOE – single open end with fin end, 3 locking tabs and external 222 O-rings

Pall® Pasteurizer Replacement Filter Cartridges
AB Style "W" Code**Cartridge Part Number**AB PAREQII W H4
Table 1 Table 2

This is a guide to the Part Numbering structure only. For specific options, please contact Pall.

Table 1 : Nominal Length

Code	Description
1	254 mm (10")
2	508 mm (20")
3	762 mm (30")
4	1016 mm (40")

Table 2 : Adaptor

Code	Description
3*	SOE - single open end with flat end and external 222 O-rings
7	SOE - single open end with fin end and external 226 O-rings
8^	SOE – single open end with fin end, plug-in style and external 222 O-rings
28*	SOE – single open end with fin end, bayonet lock and external 222 O-rings

*available in 30" only, ^available in 30 and 40" only.

PRODUCT SAFETY DATA INFORMATION

Date: 1 July 2024

Data Sheet Number: PSDS GPS-00197rev1

Supor® Beverage Filter Cartridges AB Style "W" Code

Cartridge Part Number

AB SBB W
Table 1 Table 2 Table 3

This is a guide to the Part Numbering structure only. For specific options, please contact Pall.

Table 1 : Nominal Length

Code	Description
1	254 mm (10")
2	508 mm (20")
3	762 mm (30")
4	1016 mm (40")

Table 2 : Adaptor

Code	Description
3	SOE - single open end with flat end and external 222 O-rings
7	SOE - single open end with fin end and external 226 O-rings
8	SOE - single open end with fin end, plug-in style and external 222 O-rings
28	SOE - single open end with fin end, bayonet lock and external 222 O-rings

Table 3 : O-ring Seal Material

Code	Description
H4	Silicone Elastomer
J	Ethylene Propylene Rubber

Supor® Beverage Filter Cartridges AB Style "W" Code

Cartridge Part Number

AB SBK W
Table 1 Table 2 Table 3

This is a guide to the Part Numbering structure only. For specific options, please contact Pall.

Table 1 : Nominal Length

Code	Description
1	254 mm (10")
2	508 mm (20")
3	762 mm (30")
4	1016 mm (40")

Table 2 : Adaptor

Code	Description
3	SOE - single open end with flat end and external 222 O-rings
7	SOE - single open end with fin end and external 226 O-rings
8	SOE - single open end with fin end, plug-in style and external 222 O-rings
28	SOE - single open end with fin end, bayonet lock and external 222 O-rings

Table 3 : O-ring Seal Material

Code	Description
H4	Silicone Elastomer
J	Ethylene Propylene Rubber