

## PRODUCT SAFETY DATA INFORMATION

Date: 27 July 2023

Data Sheet Number: PSDI\_IV and Acrocap\_Family Revision: 9

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### **SECTION 1 – Product Identification**

This 'Product Safety Data Information' Sheet covers Pall Medical 0.2, 0.45, 0.8, 1.2 and 5.0 micron rated, disposable IV-2, IV-3, IV-5, IV-6, Micro IV, AEF and Acrocap® filters. It also covers components supplied for use with Pall Medical filters such as tape down and in-line clips. Unless specified in one of the following sections, all statements refer to all the in-scope part numbers.

Part Number(s): See appendix 1

The filters and clips detailed above (hereinafter referred to as filters), are for professional use and intended for patient protection in medical applications:

- Aqueous IV solutions
- TPN and lipid solutions
- Drug therapy
- Apheresis solutions
- Any process requiring the removal of entrapped air from liquid solutions.

For further information on Pall Medical products, please visit [www.Cytiva.com/pallmedical](http://www.Cytiva.com/pallmedical)

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### **SECTION 2 - Hazards Identification**

Product definition: Article.

These products are not classified as hazardous according to current versions of UN Recommendations on the Transport of dangerous goods: Model regulations, GB Chemical classification, labelling and packaging (CLP) or European CLP/GHS Regulation 1272/2008 (current ATP)

Signal word: No signal word.

Hazard statements: No known significant effects or critical hazards.

Special packaging requirements: None.

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## PRODUCT SAFETY DATA INFORMATION

Date: 27 July 2023

Data Sheet Number: PSDI\_IV and Acrocap\_Family Revision: 9

### SECTION 3 - Materials of Construction

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

Material Name	CAS Number
Polyethersulfone (PES) membrane with hydrophilic surface modification	Pall proprietary information
Modified acrylic copolymer housing body and clips.	Polymer supplier proprietary information
Polytetrafluoroethylene (PFTE) vent membrane	9002-84-0
Polyester non-woven support layer	25038-59-9

#### Regulations, Acts, Guidances, Notifications, Directives and miscellaneous substances of concern lists

Pall Medical continually monitors the Regulations, Acts, Guidances, Notifications and Directives listed below and in the event of a relevant update occurring, this PSDI will be updated and published to the website. PSDIs will not be updated simply to show reviews have occurred. The substances discussed below are not tested for by Pall Medical.

- Substances included in the REACH Candidate List of Substances of Very High Concern are not known to be present at a concentration > 0.1%
- Substances listed in the REACH restricted substances list (Annex XVII) with relevant restrictions or the REACH authorised substances list (Annex XIV) are not known to be present in the raw materials nor are they intentionally added in the manufacturing process.
- The State of California requires 'clear and reasonable warnings' in respect of amounts of specific chemicals in the consumer products they purchase, in homes or workplaces or that are released into the environment. The aim of the warnings is to protect against chemicals known by the State of California to cause cancer, birth defects or reproductive harm. The list of substances of concern, their form, and/or the exposure level above which notification for each substance is required (or 'safe harbor level') being that published by the State and known as the Proposition-65 list. **These materials can potentially expose users to N,N Dimethylformamide 68-12-2 and N-Methylpyrrolidone 872-50-4 which are known to the State of California to cause cancer and developmental toxicity.** Pall Medical membranes and filters placed on the market in the State of California are not intended for 'consumer' sale but are for professional use. As the result of use they will be expected to be disposed of as 'hazardous waste' within an appropriate waste stream reflecting the contaminant present as the result of use. These articles are supplied in sealed bags and boxed and any direct contact with the materials of construction of those items is expected to be through 'occupational exposure', which does not require mandatory labelling of articles. Inhalation or ingestion of filters or sheet or roll membrane articles are considered unlikely scenarios. Also, as gloves are also recommended to be used when handling Pall Medical membranes and filters to maintain cleanliness of the product, skin contact is also considered an unlikely exposure scenario.
- Pall Medical does not specify, intentionally add or have any knowledge of the use of EU RoHS (also known as Directive 2002/95/EC and amendment 2015/863) or any other country RoHS listed

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## PRODUCT SAFETY DATA INFORMATION

Date: 27 July 2023

Data Sheet Number: PSDI\_IV and Acrocap\_Family Revision: 9

materials in the raw materials it purchases, or the intended presence of these materials in any of its products.

- Substances of concern categories listed in the EU Waste Framework are not specified by Pall Medical in the raw materials nor are they intentionally added in the manufacturing processes, but Pall Medical does not test for them. Unused Pall filters are not to the best of our knowledge classified as hazardous waste. 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.
- Nanomaterials according to 2011/696/EU and nanomaterial forms of all other substances listed in this PSDI are not known to be present in the raw materials nor are they intentionally added in the manufacturing processes.
- Substances above 0.1 % (weight by weight) which are carcinogenic, mutagenic or toxic (CMR) for reproduction of category 1A or 1B in accordance with the current ATP to Part 3 of Annex VI to Regulation (EC) No. 1272/2008 are not known to be present at a concentration > 0.1%.
- Substances having endocrine-disrupting (ED) properties for which there is scientific evidence of probable serious effects to human health and which are identified either in accordance with the procedure set out in the article 59 of Regulation (EC) No. 1907/2006 or, once a delegated act has been adopted by the Commission pursuant to the first subparagraph of Article 5(3) of Regulation (EU) No 528/2012 are not known to be present at a concentration > 0.1%,
- In May 2019 the Stockholm Convention moved to add perfluorooctanoic acid (PFOA) and/or PFOA-related compounds to its POPs Annex A, with the intention of restricting the use of PFOA and its related compounds to a limited range of applications within the ratifying countries. For example, European Commission Delegated Regulation 2020/784 and subsequent amendments to Regulation (EU) 2019/1021 regards PFOA, its salts and PFOA-related compounds. PFOA, its salts and PFOA related compounds are not intentionally used by Pall in the manufacturing processes of the above filters, nor are these substances known to be intentionally present in the raw materials that Pall employs or generated in the processes used to make those raw materials. Based on our PTFE Supplier's information and Pall's knowledge of the processes it employs in filter production, levels of PFOA and PFOA related compounds are not known to exceed the following:

25 ppb PFOA

1000ppb PFOA-related compounds

- The PTFE used may contain low levels of other PFAS as residuals. Testing of the PTFE to determine levels of residual PFAS has not yet been conducted.
- The materials of construction and substances employed in making Pall Medical membranes and filters are not specified to have actively anti-microbial, anti-bacterial or other biocidal properties.
- Pall Medical does not specify, intentionally add or have any knowledge of the use of medicinal substances or combinations of substances that are absorbed by or locally dispersed in the human body from its suppliers and does not specify or have any knowledge of the use of such materials in the raw materials it purchases, or the intended presence of these materials in any of its products
- Pall does not specify, intentionally add or have any knowledge of the use of human origin materials including blood or plasma derivatives, in the raw materials it purchases, or the intended presence of these materials in any of its products. However, although Pall Medical takes reasonable precautions to maintain the cleanliness of its products, Pall Medical cannot exclude the possibility of the presence of individual cells originating from human or environmental contact prior to supply of materials to Pall Medical or during the manufacturing and packaging processes, but Pall Medical does not test for them.

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## PRODUCT SAFETY DATA INFORMATION

Date: 27 July 2023

Data Sheet Number: PSDI\_IV and Acrocap\_Family Revision: 9

- Pall Medical membranes and filters do not knowingly contain materials of direct animal origin i.e. animal parts, tissues, or body fluids or derivatives. They are not known to be present in the raw materials nor are they intentionally added in the manufacturing process.
- Pall Medical membranes and filters do not knowingly contain adjuvants such as mould release agents. They are not known to be present in the raw materials nor are they intentionally added in the moulding or manufacturing processes.
- Nitrosamines and related compounds (Nitrous Acid, secondary, tertiary and quaternary amines, nitrite salts, sodium azide, amine reagents or solvents, nitrate salts that may contain nitrite impurities), are not known to be present in the raw materials nor are they intentionally used in the formulations and manufacturing processes. These processes do not include the use of or the known generation of nitrogen oxides or amines, nor do any of the processes include fermentation steps. There are no specific sourcing controls other than those mentioned above.
- Conflict Minerals as defined below:
  - Tantalum (derived from columbite-tantalite)
  - Tin (derived from cassiterite)
  - Tungsten (derived from wolframite)
  - Gold

and their derivatives when originating from the Democratic Republic of Congo, Angola, Burundi, the Central African Republic, Congo, Rwanda, Sudan, Uganda, the United Republic of Tanzania or Zambia, are not known to be present in the raw materials nor are they intentionally added in the manufacturing processes.

- Pall Medical does not specify, intentionally add or have any knowledge of the use of other (non-human or non- animal) non-viable biological substances in the raw materials it purchases, or the intended presence of these materials in any of its products.
- Substances listed below are not known to be present in the raw materials nor are they intentionally added in the manufacturing processes:
  - 2-MCBT and 2-MBT
  - 4-Nitrotoluene
  - Substances listed in **96/62/EC** and TPCB
  - Alkyl phenols and their ethoxylates
  - Allergens per EU Directive 2003/89 Annex IIa or other known allergens
  - Azo colourants and dyes
  - Asbestos and asbestos fibre
  - Anthracene and its compounds
  - Benzophenones
  - BPA
  - Structural analogues of BPA
  - Bromine or brominated compounds
  - Butylated hydroxy toluene
  - Chlorine or chlorinated compounds
  - Cleaning agents (products are not washed or cleaned during production)

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## PRODUCT SAFETY DATA INFORMATION

Date: 27 July 2023

Data Sheet Number: PSDI\_IV and Acrocap\_Family Revision: 9

- Colourants and inks other than those visibly present in or printed on housing or other components.
- DEHP/DINP
- Other phthalates of concern
- Dimethyl fumarate
- Dinitrobenzenes
- Dioxins and congeners including polychlorinated and polybrominated dioxins and dibenzodioxins (PCDD and PBDD)
- Furans and congeners including polychlorinated and polybrominated furans and dibenzofurans (PCDF and PBDF)
- Flame retardants (halogenated and non-halogenated)
- Substances derived from Genetically Modified Organisms
- Hazardous Air Pollutants
- Heavy metals and their compounds
- Hydrazine
- Iso and di-isocyanates
- Jatropha derived substances
- MCCPs
- Metals in ink
- Microplastics (any type of plastic fragment used as a raw material that is less than 5 mm in length)
- Natural rubber latex or latex derivatives in the product or packaging
- Organotin compounds
- Ozone depleting substances.
- PBT and vPvB substances
- Non-Phthalate plasticizers
- Pharmaceutical components known to be at risk for melamine contamination.
- Polycyclic aromatic hydrocarbons
- Polystyrene (all types) in product or packaging
- PVC in product
- PVC in packaging
- Radioactive substances
- Recycled materials, post-consumer or other source
- SCCPs
- Sensitizers such as rosin, colophony, R42 and R43
- Silicone containing oils, release agents or sprays.
- Styrene
- Substances derived from micro-organisms (not GMO)
- Thiurams
- Toluene

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

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## PRODUCT SAFETY DATA INFORMATION

Date: 27 July 2023

Data Sheet Number: PSDI\_IV and Acrocap\_Family Revision: 9

### SECTION 4 - First Aid Measures

#### 4.1 First aid measures

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

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 work-place 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.

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### SECTION 5 - Fire Fighting Measures

#### 5.1 Extinguishing media

Select an extinguish medium suitable for surrounding / working environment.

For filter set alone use dry chemical, CO<sub>2</sub>, water spray (fog) or foam.

#### 5.2 Specific Hazards

Hazardous thermal decomposition products: CO, CO<sub>2</sub>, acrid smoke, SO<sub>x</sub>, Benzenesulfonic acid, 2(or 4) methyl- phenol, ketones, aldehydes, hydrogen chloride, benzene, unsaturated hydrocarbons, hydrogen cyanide, organic acids, formaldehyde, nitrogen oxides, isocyanates, isocyanic acid, amines, isoprene, di-pentene

**Warning:** thermal decomposition of PTFE can also produce fume particles and various toxic gases including hydrofluoric acid and carbonyl fluoride.

Polymer fume fever – chills, nausea, shortness of breath, chest tightness, muscle or joint ache – seek immediate medical attention.

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## PRODUCT SAFETY DATA INFORMATION

Date: 27 July 2023

Data Sheet Number: PSDI\_IV and Acrocap\_Family Revision: 9

### 5.3 Advice to Fire Fighters

Special precaution required. Fire-fighters should wear appropriate protective equipment, including self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Protective gloves must be worn when handling debris after a fire, due to PTFE thermal decomposition risks.

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## **SECTION 6 - Accidental Release Measures**

### 6.1 Personal precautions, protective equipment and emergency procedures

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

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

### 6.2 Environmental precautions

For unused product, 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 product, 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 used product and place in a designated, labelled waste container.

Care should be taken to consider the nature of any contamination on the product as the result of use and suitable PPE employed for handling medical waste. **See section 13 for disposal requirements.**

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## **SECTION 7 – Handling and Storage**

### 7.1 Handling

In the received condition, special protective equipment is not needed during handling and normal use of these products. However, gloves are recommended to prevent contamination of the product and maintain cleanliness. Handling of used product must take into account the nature of potential contaminants.

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/membrane.

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.

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Date: 27 July 2023

Data Sheet Number: PSDI\_IV and Acrocap\_Family Revision: 9

Wear gloves to prevent contamination of the filter/membrane and maintain cleanliness of the unused product.

### 7.2 Storage

The article is supplied dry, without the presence of any preserving fluid. Store in clean, dry conditions suitable for a medical device.

Handle with care to avoid damage.

Do not expose to direct sunlight during storage, 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 - do not use if damaged.

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

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## **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 product 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 product remains clean during installation.

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

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



## PRODUCT SAFETY DATA INFORMATION

Date: 27 July 2023

Data Sheet Number: PSDI\_IV and Acrocap\_Family Revision: 9

### **SECTION 9 - Physical and Chemical Properties**

Appearance:	Disposable filter
Physical state:	Solid
Colour:	Clear / blue / green / purple / red outer housing with white filter material
Solubility:	All components insoluble in water. Acrylic components readily soluble in esters, ketones and chlorinated hydrocarbons
Auto-ignition temperature:	Acrylic: 440 °C (830 °F), decomposition begins at 250 °C (482°F) Supor Membrane: N/A PTFE: 520° - 560°C, thermal decomposition >300°C Polyester components: > 175°C
Sensitive to shock:	Mechanical / thermal shock can result in damage.

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### **SECTION 10 – Stability and Reactivity**

Reactivity:	The product is stable under the recommended conditions of use and storage.
Chemical Stability:	The product 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 hot surfaces or other conditions that soften, swell or adversely affect the product or its materials of construction. Do not allow fluids to freeze on the product.

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## PRODUCT SAFETY DATA INFORMATION

Date: 27 July 2023

Data Sheet Number: PSDI\_IV and Acrocap\_Family Revision: 9

Incompatible Materials: Strong Acids, alkalis and oxidising Agents (e.g. Perchloric Acid, nitric acid), alkali metals, strong alkalis and reducing agents, organic acids

Decomposition Products: Under recommended conditions of use or storage, no hazardous decomposition products will be produced.

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### **SECTION 11 - Toxicological Information**

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

#### **11.1 Acute Toxicity**

Mutagenicity / Carcinogenicity / Reproductive Toxicity / Teratogenicity: No known concern

Aspiration Hazard: Not applicable.

Potential acute health effects: No known significant effects or critical hazards

#### **11.2 Chronic health effects**

No known significant effects or critical hazards.

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

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### **SECTION 12 - Ecological Information**

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

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### **SECTION 13 - Disposal Information**

The information in this section contains generic advice and guidance.

#### **Product**

Methods of disposal:

**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.

**Unused as supplied product:** Disposal should be in-line with national legislation and local regulatory requirements for the materials present. Unused filter/membrane may be used as landfill.

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## PRODUCT SAFETY DATA INFORMATION

Date: 27 July 2023

Data Sheet Number: PSDI\_IV and Acrocap\_Family Revision: 9

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

**Warning:** Do NOT incinerate unused filters with general waste, as combustion products of PTFE (fluoropolymers) can be released and be hazardous to humans and the environment.

Dispose of waste via a licensed waste disposal contractor.

### **Packaging**

Bagging: 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 landfill should only be considered where re-cycling is not feasible.

### **SECTION 14 - Transport Information**

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

### **SECTION 15 – Change History**

Rev number	Description of change
6	Appendix 1 – deleted 69744421E and transferred to NEO96 PSDI. Deleted 6144423
7	Revision performed to replace incorrectly formatted Rev 1 on webpage and to update animal derived substances statement
8	Converted to new Pall Medical template. Added information related to tape down and in-line clips. Updated App1 to add 6054421, 6102041 and 6102042
9	Added 6124423J to App 1 Removed non-relevant descriptive text from section 1. Deleted column 2 in App 1.

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## PRODUCT SAFETY DATA INFORMATION

Date: 27 July 2023

Data Sheet Number: PSDI\_IV and Acrocap\_Family Revision: 9

### Notice to Reader

To the best of our knowledge, the information contained herein is accurate. However, Pall Medical assumes no 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: 27 July 2023

Data Sheet Number: PSDI\_IV and Acrocip\_Family Revision: 9

## APPENDIX 1

<b>PALL PART NUMBER</b>	<b>PRODUCT DESCRIPTION</b>
6004423	CARDIOPLEGIA FILTERS
6014423	CARDIOPLEGIA FILTER - DBL VENT
6054422	PEDIATRIC IV +0.2 FILTER
6074421	INFANT IV W/SUPOR 200; GENERIC
6074422	GARDIAN 2 AEF NEONATE DLL
6074423	INFANT IV 0.2um Supor PTFE/RST NS Generic
6074423J	GARDIAN 2 AEF, FLL/MSL, CLEAR,
6094421	INFANT IV W/SUPOR 450; GENERIC
6102041	In-line clip
6102042	Tape down clip
6104421	NEONATE IV, SUPOR 1200 GENERIC
6104423	G2 AEF NEONATE 1.2 SU W/HUB
6114423	INFANT IV W/0.2UM SUPOR
6124423J	1.2UM CARDIOPLEGIA FLT F/JAPAN
6214423	PEDIATRIC IV W/ 5UM SUPOR
6344423	INFANT IV W/0.2 +SUPOR
6444423	INFANT IV W/0.2 +SUPOR
6464420	I.V.-2 W/GREEN INLET; GENERIC
6484420	IV-3 W/HP-200 GENERIC
6494420	IV-3 Supor 0,2 um NS clear
6494521	IV-3 CLR/GRN W/0.2UM N-200
6534420	I.V.-3
6544420	I.V.-3 FILTER
6544422	GARDIAN 2 AEF
6564420	I.V.-3 W/SUPOR 1200
6574422	PEDIATRIC IV FILTER
6734520	IV-3 filter 1.2UM Supor Membrane
6754520	IV-3 filter 5.0 UM Supor Membrane
6814422	GARDIAN 2 AEF, 0.2 um Supor
6944420	G3 1.2 SUPOR
6954420	G3 0.2+ SUPOR
6964420	G3 0.2UM SUPOR
6994420	GARDIAN 3 1.2UM
7024400	GARDIAN 5 AEF 0.2 STD

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**PRODUCT SAFETY DATA INFORMATION**

Date: 27 July 2023

Data Sheet Number: PSDI\_IV and Acrocap\_Family Revision: 9

7024402	GARDIAN 5 AEF 0.2 STD
7024403	IV-5, 0.2UM
7024409	IV5 W/ 0.2 +SUPOR
7024410	IV-5 W/0.2 SUPOR
7024411	IV-5 W/1.2 SUPOR
7024412	IV-5 1.2UM; CLEAR/ BLUE
7024413	IV-5 W/5UM SUPOR, PURPLE
7034400	IV-5 AEF .2 (+) STD.CONN
7043301	IV-5 AEF W/ 0.8 SUPOR
7044400	GARDIAN 5 AEF 1.2 STD
7044401	IV-5 1.2UM
7224402	GARDIAN 6 AEF 0.2um Generic
7224407	IV5 /+0.2UM SUPOR
10012217	IV5 W/0.2UM SUPOR
10012218	IV5 W/1.2 UM SUPOR
69024421	MICRO IV FLTR, SUPOR MEMB 2.3MM
69124421	MICRO IV W/1.2 SUPOR - GENERIC
69144421	MIV 0.2(+) 3/32 CLR
69154421	MIV 0.2(+) 2MM CLR/RED GENERIC
69224421	MICRO IV W/0.2 UM W/2MM I.D.
69244421	MICRO IV 0.2 SUPOR
69254421	MICRO IV 0.2 SUPOR 2.5 CNNCTR
69274421	MIV 0.2(+) 2MM CLR/RED GENERIC
69314421	MICRO IV W/0.2 UM W/2MM I.D.
69324421	MICRO IV 0.2 SUPOR W/2.7MM ID
69384421	G1 AEF 1.2UM 2.7 MM SOCKET
69404421	G1 0.2UM W/1.98MM
69424421	MICRO IV 1.2 UM 2 MM ID BLUE
69434421	G1 .2(+) UM W/1.98MM
69444421	MICRO IV W/5UM SUPOR
69454421	MICRO IV 0.2 UM 3/32 I.D. GNRC
69464421	MICRO IV W/5 SUPOR 2.3 CNNCTR
69474421	MICRO IV W/0.2UM SUPOR 2.7MM
69494421	GARDIAN 1, 1.2 UM, 3/32" BLUE
69554421	MICRO IV 1.2 UM 2 MM ID BLUE
69724421	MICRO IV W/+0.2UM SUPOR, 2.5MM
69814421	MIV 0.2(+) 2MM CLR/CLR Generic

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