

Safety Data Sheet

1. Product and Company Information

Product name	:	PTFE Membrane Capsule Cartridge Filter CCF-(005,A10,010,020,100)-(C,D,E)1B (S) * CCF-(005,A10,010,020,100)-(D,E)1D (S) * CCF-(005,A10,010,020,100)-(C,D,E)1H (S) * CCF-(005,A10,010,020,100)-(C,D,E)1N (S) * *S : Sterile type. However, the sterilized type is only CCF-020 and CCF- 050.
Supplier company name, address, phone number	:	
Company	:	Toyo Roshi Kaisha, Ltd.
Head office	:	Hibiya-Kokusai BLDG 5F, 2-2-3 Uchisaiwaicho, Chiyoda-ku, Tokyo, 100-0011 Japan
Section in charge	:	Quality Assurance Division
Phone	:	+81-3-5521-2176
Fax	:	+81-3-5521-2177
E-mail	:	trk-hinsho@advantec.co.jp
Recommended application	:	Liquid Microfiltration
Restrictions in use	:	<ul style="list-style-type: none">• Used only for general industrial use.• Cannot be used for liquids without chemical resistance.• Cannot be used for gas.• Inline steam sterilization can't be performed.• In case of organic solvent filtration, an electrified prevention countermeasure is needed.• Liquids with a surface tension of 32mN/m or higher cannot normally be filtered. When filtering, alcohol substitution is needed.• Repeated autoclave sterilization may damage the filter.

2. Hazard Summary

GHS Classification	:	
Physical hazards	:	Not applicable to the classification.
Human health hazard	:	Not applicable to the classification.
Environmental hazard	:	Not applicable to the classification.
Label element	:	N/A

3. Composition and Information on ingredients

Chemical substance/Mixture	:	Mixtures
Chemical name or general product name	:	Cartridge Filter

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 CCF-(005,A10,010,020,100)-(D,E)1D(S) Revised Date: October 15, 2019
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Ingredients and Content	:	Polytetrafluoroethylene (CAS No.9002-84-0) (Filter) Polypropylene (CAS No.9010-79-1,9003-07-0) (Housing, Bent・Drain, Endcap, Core, Protector, Support media)
Reference Number in Gazetted List in Japan	:	・ Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture etc. ・ Japanese Chemical Substances Control Act. Japan's Industrial Safety and Health Act.
(6)-939 Polytetrafluoroethylene (6)-10, (6)-402 Polypropylene	:	Not applicable.
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4. First Aid Measures	:	
Inhalation	:	Inhalation of gases generated by thermal decomposition cause a temporary influenza type symptom. The symptoms are headaches, joint pain, general discomfort, fever, coughing, chills, palpitations, and chest discomfort. Consult with a physician.
Skin contact	:	Not applicable.
Eye contact	:	Not applicable.
Ingestion	:	Not applicable.
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5. Fire Fighting Measures	:	
Extinguishing media	:	Plenty of water (spray), dry chemicals, carbon dioxide, foam chemicals, and halogen media.
Unacceptable extinguishing media	:	No data available.
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6. Accidental Release Measures	:	
Personnel precautions, protective equipment and emergency procedures	:	No data available.
Precautions for environment	:	No data available.
Methods and materials for containment and cleaning up	:	No data available.
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7. Handling and Storage	:	
Handling	:	As the material, may generate harmful gas when it is exposed to high temperature, avoid touching it or exposing it to a heat source. Avoid contact with metals such as alkali metal, aluminum, and magnesium.
Storage	:	Avoid direct sunlight, ultraviolet light, moisture, high and low temperatures, high humidity, open-air storage, strong acids and strong bases. Fire Act(Designated Flammable Goods: Synthetic Resins) is applicable in case of storage with 3,000kg and over.

8. Prevention of exposure and human body protection

Acceptable concentration Japan Society for Occupational Health	:	No data available.
Acceptable concentration ACGIH	:	No data available.
Facility provision	:	Take effective measures if necessary.
Protective equipment	:	Use appropriate protective tools if necessary.

9. Physical and Chemical Properties

Physical property	:	Solid, Capsule-shaped filter.
Color	:	Translucent.
Odour	:	N/A
Melting point / Freezing point	:	No data available.
Boiling point or initial boiling point and boiling range	:	No data available.
Flammability	:	Yes.
Lower explosion limit and upper explosion limit / Flammability limit	:	Not applicable.
Flash point	:	Not applicable.
Spontaneous ignition point	:	Not applicable.
Decomposition temperature	:	Not applicable.
pH	:	No data available.
Kinematic viscosity	:	Not applicable.
Solubility	:	Insoluble in water.
n-octanol / Water partition coefficient	:	No data available.
Vapor pressure	:	No data available.
Density or relative density	:	No data available.
Relative gas density	:	Not applicable.
Particle characteristics	:	No data available.

10. Stability and Reactivity

Reactivity	:	Stable under normal handling. The material will begin to decompose very slowly when the temperature is above 260°C. Above 400°C, the decomposition speed will increase. Various decomposition temperature level and decomposition component; Above 430°C-Tetrafluoroethylene Above 440°C-Hexafluoropropylene Above 475°C-Perfluoroisobutylene Above 500°C-Carbonyl fluoride
Chemical Stability	:	Stable under normal handling.
Possibility of hazardous reactions	:	No data available.
Conditions to avoid	:	As the material may generate harmful gas when it is exposed to high temperature, avoid touching it or exposing it to a heat source.

		Avoid direct sunlight, ultraviolet light, moisture, high and low temperatures, high humidity, open-air storage, strong acids and strong bases.
Hazardous substances for mixing	:	No data available.
Hazardous decomposition products	:	Tetrafluoroethylene, Hexafluoropropylene, Perfluoroisobutylene, Carbonyl fluoride.
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11. Toxicological Information		
Acute toxicity		Cannot be classified due to lack of data.
Serious eye damage/ eye irritation	:	Cannot be classified due to lack of data.
Respiratory sensitization / Skin sensitization	:	Cannot be classified due to lack of data.
Germ cell mutagenicity	:	Cannot be classified due to lack of data.
Carcinogenicity	:	Cannot be classified due to lack of data.
Reproductive toxicity	:	Cannot be classified due to lack of data.
Specific target organ toxicity - Single exposure	:	Cannot be classified due to lack of data.
Specific target organ toxicity - Repeated exposure	:	Cannot be classified due to lack of data.
Aspiration hazard	:	Cannot be classified due to lack of data.
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12. Ecological Information		
Ecotoxicity		
Hazardous to the aquatic environment (acute)	:	Cannot be classified due to lack of data.
Hazardous to the aquatic environment (chronic)	:	Cannot be classified due to lack of data.
Persistence and Degradability	:	No data available.
Bioaccumulative potential	:	No data available.
Mobility in soil	:	No data available.
Ozone layer hazard	:	No data available.
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13. Disposal Considerations		
		Dispose it in accordance with national, prefectural and local regulations. The same as general industrial waste, outsource industrial waste disposal companies or local public organizations who are authorized by governors. In case of the incineration, use controlled incinerator following Air Pollution Control Law, Waste Disposal & Public Cleaning Law and Water Pollution Control Law. (We recommend disposing the material as an industrial waste.)
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14. Transportation Notes		
Regulatory information in case there are domestic regulations.	:	Applicable as designated Flammables in the Fire Service Act.
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15. Applicable Law		
• Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture etc.	:	Existing Chemical Substances (6)-939 Polytetrafluoroethylene (6)-10, (6)-402 Polypropylene
• Japanese Chemical Substances Control Act.		

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Fire Defense Law : Article 9-4 (Standard for storage and handling of hazardous material with less than designated amount)
Article 1-12 on regulations of hazardous materials
Appendix 4 Designated specific flammable materials (Synthetic resin. If the total amount is 3,000 kg or over, follow Fire Service Act. If the total amount is less than 3,000 kg, follow the regulations defined by municipal ordinance for storage and handling of the materials.)

16. Note:

The descriptions in this Safety Data Sheet are made based on the literature, information or data that we can obtain at this moment but subject to be revised with new knowledge in the future. The content, physical and chemical properties, hazards, etc. do not provide any assurance, and precautions are intended for normal handling. For special handling, take appropriate safety measures for the intended use.

Please take that this safety data sheet is for your reference and take appropriate measures in accordance with actual conditions under your responsibility.

Please note that this Safety Data Sheet is created according to Japanese law.

Reference Literature

- Classification of chemicals based on “Globally Harmonized System of Classification and Labelling of Chemicals (GHS)” (JIS Z 7252:2019)
 - Communicating hazard information on labels based on GHS—Labelling, Posting in the workplace and Safety Data Sheet (SDS) (JIS Z 7253:2019)
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