

## Safety Data Sheet

### 1. Product and Company Information

Product name	:	DISMIC 28HP020AN、28HP045AN 28HP020AN05、28HP045AN05 28HP020AN10、28HP045AN10 25HP020AN、25HP045AN 25HP020AN05、25HP045AN05 25HP020AN10、25HP045AN10 13HP020AN、13HP045AN 13HP020AN05、13HP045AN05 13HP020AN10、13HP045AN10
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 Department
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"><li>• Cannot be used for liquids without chemical resistance.</li><li>• During filtration of organic solvents, there is a case where antistatic measures are required.</li><li>• It can be used for analytical purposes, but not for medical purposes.</li><li>• Autoclave sterilization dose and is not.</li></ul>

### 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	:	Disposable Membrane Filter Unit
Ingredients and Content	:	Polytetrafluoroethylene (CAS No. 9002-84-0) (Filter) Polypropylene (CAS No. 9010-79-1, CAS No. 9003-07-0) (Support Media , Houjing)
Reference Number in Gazetted List in Japan	:	
• Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture etc.	:	(9)-939 Polytetrafluoroethylene (6)-10 (6)-402 Polypropylene
Japan's Industrial Safety and Health Act.	:	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 etc.
  - 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. Do not allow it to come in contact with alkali metals, aluminum and magnesium.
  - Storage : Avoid direct sunlight, ultraviolet light, moisture, high and low temperatures, high humidity, open-air storage, strong acids and strong bases
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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.
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9. Physical and Chemical Properties
- Physical property : Solid, A small circular filter and a housing are integrated.
  - Color : Housing : Transparent, Filter : White
  - Odour : None.
  - 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 degrees Celsius. Above 400 degrees Celsius, the decomposition speed will increase. Possible decomposition temperature and decomposed products; Above 430 degrees Celsius-Tetrafluoroethylene Above 440 degrees Celsius-Hexafluoropropylene Above 475 degrees Celsius-Perfluoroisobutylene Above 500 degrees Celsius-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

#### 11. Toxicological Information

Acute toxicity	:	Cannot be classified due to lack of data.
Skin corrosion/ Irritation	:	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.

#### 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. Regulatory Information

• Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture etc.	:	Existing Chemical Substances (6)-939 Polytetrafluoroethylene (6)-10 (6)-402 Polypropylene
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• Japanese Chemical Substances Control Act.

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.) ( Polypropylene)
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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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