

## Safety Data Sheet

### 1. Product and Company Information

Product name	:	DISMIC 25AS020AS,25AS020AN, 25AS020AN05, 25AS020AN10 25AS045AS,25AS045AN, 25AS045AN05, 25AS045AN10
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, sterilization.
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	:	Cellulose nitrate (CAS No.9004-70-0) (Filter) Cellulose acetate (CAS No.9004-35-7) (Filter) Acrylonitrile styrene copolymer (CAS NO. 9003-54-7) (Houjing)
Reference Number in Gazetted List in Japan		
• Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture etc.	:	(8)-176 Cellulose nitrate (8)-165 Cellulose acetate (6)-126 Acrylonitrile styrene copolymer
Japan's Industrial Safety and Health Act.	:	Appendix No.9-424 Nitrocellulose (Cellulose nitrate)

### 4. First Aid Measures

Inhalation	:	Not applicable.
Skin contact	:	Not applicable.
Eye contact	:	Not applicable.
Ingestion	:	Not applicable.

5. Fire Fighting Measures	
Extinguishing media	: A copious amount of water (spray), carbon dioxide, fire-extinguish powder, foam fire-extinguisher, sand, and soil, etc.
Unacceptable extinguishing media	: No data available.
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.
7. Handling and Storage	
Handling	: Prohibit the use of high temperature objects, sparks, and the fire in the surroundings areas. Avoid heat and shock. Do not subject the container to a crush, big impact or dragging.
Storage	: Keep away from ignition sources like heat, sparks and flames. Avoid direct sunlight and fire. Store in an airtight container in a well-ventilated area. Avoid long-term storage and strictly follow the expiration date.
8. Prevention of exposure and human body protection	
Acceptable concentration	: No data available.
Japan Society for Occupational Health	
Acceptable concentration	: No data available.
ACGIH	
Facility provision	: Take effective measures if necessary.
Protective equipment	: Use appropriate protective tools if necessary.
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.
Other	: Nitric oxide and nitrogen dioxide are produced during storage. Nitrogen compounds are produced when burned.

#### 10. Stability and Reactivity

Reactivity	: Stable under normal handling.
Chemical Stability	: Stable under normal handling.
Possibility of hazardous reactions	: Easily ignite by catching a fire. It may suddenly ignite by coming in contact with oxidant, acid, base, or combustible agents. It may suddenly ignite or explode by a blow, static electricity, shock, or heat. Easy to oxidize under high temperature and high Humidity environment, which induces higher possibility for spontaneous ignition.
Conditions to avoid	: Fire, high temperature, high humidity, blow, electrostatic, shock, and/or heat.
Hazardous substances for mixing	: Coming in contact with to oxidant, acid, base, and / or combustible agent.
Hazardous decomposition products	: Nitrogen oxide. Generates carbon monoxide and carbon dioxide during burning.

#### 11. Toxicological Information

Acute toxicity (oral)	: Not applicable to the classification. (As a single substance) Not applicable to the classification. RAT LD50>5,000mg/kg (Cellulose nitrate, Cellulose acetate)
(dermal)	: Cannot be classified due to lack of data.
(inhalation: gases)	: Cannot be classified due to lack of data.
(inhalation: vapours)	: Cannot be classified due to lack of data.
(inhalation: dust and mist)	: 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 : Cannot be classified due to lack of data.

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.)

14. Transportation Notes

Regulatory information in case there are domestic regulations. : Applicable as designated Flammables in the Fire Service Act.

15. Regulatory Information

Japan Industrial Safety and Health Act. : Enforcement order separate table Article 1 Section 1, Hazardous and explosive material. (1 Nitrocellulose)  
Article 57 Article 18 of the Enforcement Order: Hazardous and harmful substances whose names, etc. must be indicated (Cabinet Order No. 25-3 Nitrocellulose)  
Article 57-2 Appended Table 9 of Article 18-2 of the Enforcement Order:  
Hazardous and Noxious Substances of Which the Name, etc. Should be Notified (Cabinet Order No. 424 Nitrocellulose)  
(Cellulose nitrate)

Fire Defense Law : Article 9-4 (Standards for Storage and Handling of Hazardous Substances, etc. In less than Specified Quantity), Article 1-11 of the Cabinet Order on Control of Hazardous Materials, Appended Table 3, Class 5 (Class 1 self-reactive substances, 10 kg or more are subject to the Fire Service Act, and for less than 10kg in the case of less than 10kg, technical standards for storage and handling of articles are set by municipal ordinance).  
(Cellulose nitrate)

Article 9-4 (Standard for storage and handling of hazardous material with less than specified amount), Article 1-12 on

regulations of hazardous materials, and  
group 4 specific flammable materials  
(synthetic resin. If a total amount is  
3,000kg, follow Fire Defense Law.  
If a total amount is less than 3,000kg,  
follow the regulations defined by  
municipal ordinance for storage and  
handling of the material).

(Acrylonitrile styrene copolymer)

Act on the Evaluation of Chemical  
Substances and Regulation of Their  
Manufacture etc.

: Existing Chemical Substances  
(8)-176 Cellulose nitrate  
(8)-165 Cellulose acetate  
(6)-126 Acrylonitrile styrene copolymer

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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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