

Safety Data Sheet

1. Product and Company Information

Product name	:	Polycarbonate type Membrane Filter (white)
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	:	Microscope observation of captured substances.
Restrictions in use	:	• Please consult us for other uses.

2. Hazard Summary

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

3. Composition and Information on ingredients

Chemical substance/Mixture	:	Chemical substances
Chemical name or general product name	:	Membrane Filter
Ingredients and Content	:	Polycarbonate (CAS No. 25037-45-0)
Reference Number in Gazetted List in Japan	:	
• Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture etc.	:	(7)-738 Polycarbonate
• Japanese Chemical Substances Control Act.	:	
Japan's Industrial Safety and Health Act.	:	Not applicable.

4. First Aid Measures

Inhalation	:	Not applicable. If gas combusted by thermal decomposition is inhaled, give the person fresh air and seek medical attention if he/she does not recover.
Skin contact	:	Not applicable.
Eye contact	:	Immediately wash thoroughly with clean running water. In case of abnormality, consult with a physician.
Ingestion	:	Exhale as much as possible. In case of abnormality, consult with a physician.

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.
Extinguishing procedure	:	Take the same procedure as a general fire.

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	: Take measures against static electricity.
	Storage	: Store in a dark, dry place between 5°C and 35°C away from heat and ignition sources, not in direct sunlight.
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, Paper with a smooth surface.
	Color	: Translucent or transparent.
	Odour	: None.
	Melting point / Freezing point	: 220°C
	Boiling point or initial boiling point and boiling range	: No data available.
	Flammability	: Yes (Flame retardance).
	Lower explosion limit and upper explosion limit / Flammability limit	: Not applicable.
	Flash point	: 226°C
	Spontaneous ignition point	: 550°C or more.
	Decomposition temperature	: No data available.
	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	: 1.2g/cm ³
	Relative gas density	: Not applicable.
	Particle characteristics	: No data available.
10.	Stability and Reactivity	
	Reactivity	: Stable under normal handling.
	Chemical Stability	: Stable under normal handling.
	Possibility of hazardous reactions	: Hydrolyzed by bases.
	Conditions to avoid	: Direct sunlight, ultraviolet, high temperature, low temperature, high humidity, open-air storage.
	Hazardous substances for mixing	: No data available.

Hazardous decomposition products : Not produced under normal storage and use conditions.
May burn due to thermal decomposition, producing toxic gases and fumes(carbon dioxide, carbon monoxide, organic acids, aldehydes, alcohols).

11. Toxicological Information

Acute toxicity
(oral) : Cannot be classified due to lack of data.
(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 : Repeated or prolonged contact may cause skin dryness and irritation.
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. : There are no regulations in Japan.

15. Applicable Law

- Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture etc. : Existing Chemical Substances (7)-738 Polycarbonate
 - Japanese Chemical Substances Control Act.
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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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