Safety Data Sheet

1. Product and Company Information

Product name	:	Industrial Filter Paper No.434, No.436
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 Filtration
Restrictions in use	:	・Please consult us for other uses. ・Not resistant to dimethyl sulfoxide.

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	:	Mixture
Chemical name or general product name	:	Industrial Filter Paper
Ingredients and Content	:	Cellulose (CAS No.9004-34-6) Polyamide epichlorohydrin resin Aluminum sulfate (CAS No.17927-65-0)
Reference Number in Gazetted List in Japan		
・Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture etc.	:	(7)-1961 Polyamide epichlorohydrin resin (1)-25 Aluminum sulfate
・Japanese Chemical Substances Control Act.		
Japan's Industrial Safety and Health Act.	:	Not applicable.

4. First Aid Measures

Inhalation	:	Not applicable.
Skin contact	:	Not applicable.
Eye contact	:	Immediately wash thoroughly with clean running water. In case of abnormality, consult with a physician.
Ingestion	:	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.

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	:	Be careful about the handling by the fire.
Storage	:	In order to prevent the deterioration and/or degradation caused by moisture absorption, seal the container tightly and store the container at a cool and dark place. Do not store it with oxides and/or organic peroxides. If a total stored amount exceeds 1,000 kg, follow Fire Service Act (designated flammables)

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, crepe surface paper.
Color	:	Brown.
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.
Chemical Stability	:	Stable under normal handling.
Possibility of hazardous reactions	:	No data available.

Conditions to avoid	:	Direct sunshine, ultraviolet, wetting, high temperature, high humidity, open-air storage. Avoid contact with strong oxidizers.
Hazardous substances for mixing	:	No data available.
Hazardous decomposition products	:	No data available.

11. Toxicological Information

Acute toxicity		
(oral)	:	Not applicable to the classification. (As a substance) RAT (OECD401) $LD_{50} \geqq 2{,}000$mg/kg (Polyamide epichlorohydrin resin) MOUSE $LD_{50} = 6{,}207$mg/kg(48hr) (Aluminum sulfate)
(dermal)	:	Not applicable to the classification.
(inhalation: gases)	:	Not applicable to the classification.
(inhalation: vapours)	:	Not applicable to the classification. (As a substance) Category 3. (Polyamide epichlorohydrin resin)
(inhalation: dust and mist)	:	Cannot be classified due to lack of data.
Skin corrosion/ Irritation	:	Cannot be classified due to lack of data. (As a substance) Category 3. (Aluminum sulfate)
Serious eye damage/ eye irritation	:	Cannot be classified due to lack of data. (As a substance) Category 2B. (Aluminum sulfate)
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. (As a substance) Aluminum hydroxide by hydrolysis Generate. (Aluminum sulfate)
Bioaccumulative potentional	:	No data available.

Mobility in soil	:	No data available. (As a substance) Aluminum hydroxide by hydrolysis Generate. (Aluminum sulfate)
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. Applicable Law

・Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture etc. ・Japanese Chemical Substances Control Act.	:	Existing Chemical Substances (7)-1961 Polyamide epichlorohydrin resin The substance which isn't treated as new chemicals. (1)-25 Aluminum sulfate
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 (rag and paper waste. If the total amount is 1,000 kg or over, follow Fire Service Act. If the total amount is less than 1,000 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）