Toyo Roshi Kaisha, Ltd. 1/4 Issued Date: June 5, 1998 Revised Date: October 15, 2019

1.	Product and Company Information		
	Product name	:	Cellulose Powder A, B, C, D, E
	Supplier company name, address, phone number		
	Company	:	Toyo Roshi Kaisha, Ltd.
	Head office Section in charge Phone Fax E-mail Recommended application	::	Hibiya-Kokusai BLDG 5F, 2-2-3 Uchisaiwaiche Chiyoda-ku, Tokyo, 100-0011 Japan Quality Assurance Division +81-3-5521-2176 +81-3-5521-2177 trk-hinsho@advantec.co.jp For column chromatography,zone migration
	Treesmannen approximen	•	of electrophoresis, raw material for
			preparing cellulose derivatives, animal feed experiments.
	Restrictions in use	:	• Please consult us for other uses.
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	:	Chemical substance
	Chemical name or general product name	:	Cellulose Powder
	Ingredients and Content	:	Cellulose (CAS No.9004-34-6)
	Reference Number in Gazetted List in Japan		
	• Act on the Evaluation of Chemical	:	Not applicable.
	Substances and Regulation of Their Manufacture etc.		
	 Japanese Chemical Substances 		
	Control Act.		
	Japan's Industrial Safety and Health Act.	:	Not applicable.
4.	First Aid Measures		
	Inhalation	:	Gargle and wash mouth as well as blow the nose sufficiently. Give the individual access to fresh air. In case of
	Skin contact		abnormality, consult with a physician. Not applicable.
	Eye contact	:	Immediately wash thoroughly with clean
	Lyc contact	•	running water. In case of abnormality, consult with a physician.
	Ingestion	:	In case of abnormality, consult with a
		•	physician.

Safety Data Sheet

5.	Fire Fighting Measures Extinguishing media Unacceptable extinguishing media	 Plenty of water (spray), dry chemicals, carbon dioxide, foam chemicals, and halogen media. No data available.
6.	Accidental Release Measures Personnel precautions, protective equipment and emergency procedures Precautions for environment Methods and materials for containment and cleaning up	 No data available. No data available. No data available.
7.	Handling Handling Storage	 Be careful about the handling by the fire. 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 protect Acceptable concentration Japan Society for Occupational Health Acceptable concentration ACGIH Facility provision Protective equipment	 ion Respirable dust 1mg/m³, Total dust 4mg/m³ Total dust 10mg/m³ Take effective measures if necessary. Use appropriate protective tools if necessary.
9.	 Physical and Chemical Properties Physical property Color Odour Melting point / Freezing point Boiling point or initial boiling point and boiling range Flammability Lower explosion limit and upper explosion limit / Flammability limit Flash point Spontaneous ignition point Decomposition temperature pH Kinematic viscosity Solubility n-octanol / Water partition coefficient Vapor pressure Density or relative density Relative gas density 	 Solid, Powder. White. None. No data available. No data available. Yes. Not applicable. No data available. No data available. Insoluble in water. No data available. In data available. In data available. No data available. No tapplicable. No data available. No data available. No data available. Not applicable. No data available. No data available. Not applicable.

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10.	Stability and Reactivity			
	Reactivity	:	Stable under normal handling.	
	Chemical Stability Possibility of hazardous reactions Conditions to avoid Hazardous substances for mixing Hazardous decomposition products	::	Stable under normal handling. No data available. Direct sunshine, ultraviolet, wetting, high temperature, high humidity, open-air storage. Avoid contact with strong oxidizers. No data available. No data available.	
11.	Toxicological Information			
	Acute toxicity			
	(oral)	:	Not applicable to the classification.	
	(dermal)	:	Not applicable to the classification.	
	(inhalation: gases)	:	Not applicable to the classification.	
	(inhalation: vapours)	:	Not applicable to the classification.	
	(inhalation: dust and mist)	:	Cannot be classified due to lack of data.	
	Skin corrosion/ Irritation	:	Not applicable to the classification.	
	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	:	Not applicable to the classification.	
	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	:	Cannot be classified due to lack of data.	
	(acute)	•	Camot de classifieu due lo lack di data.	
	Hazardous to the aquatic environment (chronic)	:	Cannot be classified due to lack of data.	
	Persistence and Degradability	:	No data available.	
	Bioaccumulative potentional	:	No data available.	
	Mobility in soil	:	No data available.	
	Ozone layer hazard	:	Cannot be classified due to lack of data.	

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.

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 15. Applicable Law Fire Defense Law Article 9-4 (Standard for storage and hand of hazardous material with less than designated amount) Article 1-12 on regulations of hazar materials Appendix 4 Designated specific flamm materials (rag and paper waste. If the amount is 1,000 kg or over, follow Fire Se Act. If the total amount is less than 1,000 follow the regulations defined by muni ordinance for storage and handling of 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)