

## Safety Data Sheet

---

### 1. Product and Company Information

|  |   |   |
|--|---|---|
| Product name                                 | : | Glass Fiber Filter<br>GA-55, GA-100, GA-200, GB-100R, GB-140,<br>GC-50, GD-120, GF-75   |
| Supplier company name, address, phone number | : |   |
| Company                                      | : | Toyo Roshi Kaisha, Ltd.   |
| Head office                                  | : | Hibiya-Kokusai BLDG 5F, 2-2-3 Uchisaiwaicho,<br>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/Air Filtration   |
| Restrictions in use                          | : | <ul style="list-style-type: none"><li>• Please consult us for other uses.</li><li>• Borosilicate glass fibers used in glass filter paper are chemically and physically stable. However, when used for filtering aqueous solutions, the alkaline substances that are components gradually elute.</li><li>• Due to the characteristics of the product derived from the manufacturing process and raw materials, the results of micro analysis may be affected. Therefore, when performing micro analysis of filtrates or captured materials, measure the blank value.</li><li>• When the glass filter paper is folded and used, more fibers are removed. For this reason, do not bend glass filter paper.</li><li>• Because glass filter paper is soft, there is a risk of damage if handled with sharp tweezers.</li><li>• When using a Buchner funnel, there is a risk of opening holes in the glass filter paper, depending on the diameter of the funnel hole and the suction pressure. By setting filter paper on a support sheet such as a mesh sheet, the risk of opening holes can be avoided.</li><li>• If you don't like the change in pH, be careful about elution of alkaline substances.</li></ul> |

---

### 2. Hazard Summary

|                                    |   |  |
|------------------------------------|---|--|
| GHS Classification                 | : |  |
| Physical hazards                   | : | Not applicable to the classification.  |
| Human health hazard                | : |  |
| Skin corrosion/ Irritation         | : | Category 2(Irritation).                |
| Serious eye damage/ eye irritation | : | Category 2B(Light irritation to eyes). |
| Carcinogenicity                    | : | Category 2.                            |

|   |   |   |
|---|---|---|
| Specific target organ toxicity –<br>Single exposure | : | Category 3(respiratory tract irritation).   |
| Environmental hazard                                | : | Not applicable to the classification.   |
| Label element                                       |   |   |
| Pictograms or symbols                               | : |   |
| Signal words  | : | Warning.  |
| Hazard statements                                   | : | Causes skin irritation.<br>Causes Eye irritation.<br>Limited carcinogenic concerns.<br>Possible stimulus to respiratory organs<br>(respiratory tract irritation).   |
| Precautionary statements                            |   |   |
| Safety measure                                      | : | Wash hands thoroughly after handling.<br>When handling, wear protective gloves if<br>necessary.<br>Avoid release to the environment.<br>Avoid breathing dust.   |
| First aid measures                                  | : | In case of inhalation, and if breathing is<br>difficult, take person to fresh air and keep<br>rested in a position comfortable for breathing.<br>When any symptom regarding breathing<br>appears, contact a doctor.<br>In case of skin contact, wash with plenty soap<br>and water.<br>In case of eye contact, rinse cautiously with<br>water for several minutes. Remove contact<br>lenses, if present and easy to do. Continue<br>rinsing.<br>In case eye irritation and skin irritation<br>continues, consult with a physician for<br>treatment. |
| Storage   | : | Store in a container.   |
| Discard   | : | Just like disposal of general industrial waste,<br>ask for industrial waste disposer accepted by<br>prefectural governors or for a local public<br>agency for disposal.   |

---

### 3. Composition and Information on ingredients

|   |   |  |
|---|---|--|
| Chemical substance/Mixture  | : | Chemical substance   |
| Chemical name or general product name   | : | Glass Fiber Filter   |
| Ingredients and Content   | : | Glass Fiber  |
| Reference Number in Gazetted List in<br>Japan   |   |  |
| • Act on the Evaluation of Chemical<br>Substances and Regulation of Their<br>Manufacture etc. | : | Not applicable.  |
| • Japanese Chemical Substances<br>Control Act.  |   |  |
| Japan's Industrial Safety and Health<br>Act.  | : | Appendix No.9-314<br>Artificial Mineral Fiber(Glass Fiber) |

---

4. First Aid Measures
- |              |   |   |
|--------------|---|---|
| Inhalation   | : | In case of inhalation, and if breathing is difficult, take person to fresh air and keep rested in a position comfortable for breathing. When any symptom regarding breathing appears, contact a doctor. |
| Skin contact | : | In case of skin contact, wash with plenty soap and water.   |
| 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 | : | Avoid breathing in dust.<br>Avoid touching the eyes and skin as much as possible.<br>If necessary, wear gloves, protective eye wear and a dust mask.                       |
| Storage  | : | Avoid direct sunlight, ultraviolet light, wetting, high and low temperatures, high humidity, open-air storage, strong acids and strong bases.<br>Avoid hydrofluoric acids. |
- 
8. Prevention of exposure and human body protection
- |   |   |   |
|---|---|---|
| Acceptable concentration<br>Japan Society for Occupational Health | : | If the raw material is 1f/ml (estimate), and is not set up as filter paper.   |
| Acceptable concentration<br>ACGIH                                 | : | If the raw material is 1f/cc [not less than 5 micrometers in length, and a three or more aspect ratios (length/diameter) inspiratory fiber], and is not set up as filter paper. |
| Facility provision  | : | It is recommended to install a local exhaust ventilation system, device for washing the face/body/mouth and a changing room.  |
| Protective equipment  | : | Use appropriate protective tools if necessary.  |
- 
9. Physical and Chemical Properties
- |                                |   |                              |
|--------------------------------|---|------------------------------|
| Physical property              | : | Solid, smooth surface paper. |
| Color                          | : | White.                       |
| Odour                          | : | None.                        |
| Melting point / Freezing point | : | No data available.           |

|  |   |  |
|--|---|--|
| Boiling point or initial boiling point and boiling range             | : | No data available.   |
| Flammability   | : | No.  |
| Lower explosion limit and upper explosion limit / Flammability limit | : | Not applicable.  |
| Flash point  | : | Not applicable.  |
| Spontaneous ignition point   | : | Not applicable.  |
| Decomposition temperature  | : | No data available.   |
| pH   | : | No data available.   |
| Kinematic viscosity  | : | Not applicable.  |
| Solubility   | : | No data available.   |
| 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.   |
| <hr/>  |   |  |
| 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  | : | Avoid strong acids and strong bases.<br>Avoid hydrofluoric acids.                          |
| Hazardous substances for mixing                                      | : | No data available.   |
| Hazardous decomposition products                                     | : | No data available.   |
| <hr/>  |   |  |
| 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)  | : | Not applicable to the classification.  |
| Skin corrosion/ Irritation   | : | Category 2 (Irritation).   |
| Serious eye damage/ eye irritation                                   | : | Category 2B (Light irritation to eyes).  |
| Respiratory sensitization / Skin sensitization                       | : | Cannot be classified due to lack of data.  |
| Germ cell mutagenicity   | : | Not applicable to the classification.  |
| Carcinogenicity  | : | Category 2.<br>Group 2B (possibly carcinogenic to humans) classified by IARC (Glass Fiber) |
| Reproductive toxicity  | : | Cannot be classified due to lack of data.  |
| Specific target organ toxicity - Single exposure                     | : | Category 3(respiratory tract irritation).  |
| Specific target organ toxicity - Repeated exposure                   | : | Cannot be classified due to lack of data.  |
| Aspiration hazard  | : | Cannot be classified due to lack of data.  |
| <hr/>  |   |  |
| 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. : No regulatory information.

## 15. Applicable Law

Japan's Industrial Safety and Health Act. : Dangerous/Hazardous Material which should Show or Indicate Its Name etc.  
Appendix No.9-314  
Artificial Mineral Fiber(Glass Fiber)

## 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)