

Safety Data Sheet

1. Chemical product and Company Information


Name of chemical	: Activated Carbon Filter Paper CP-20
Supplier's name, address and phone number	
Company	: Toyo Roshi Kaisha, Ltd.
Address	: 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
Mail address	: trk-hinsho@advantec.co.jp
Recommended application	: Collection of radioactive iodine
Use restrictions	: In case of other purpose of use, please contact us to discuss.

2. Hazard Summary

GHS classification of chemicals

Physical hazard	: Not classified.
Human health hazard	
Serious eye damage and eye irritation	: Category 2B (Light irritation to eyes)
Carcinogenicity	: Category 2
Specific target organ toxicity (Single exposure)	: Category 3 (Irritation to respiratory tract)
Environmental hazard	: Classification not possible.

GHS Label element

Pictograms or symbols	: 
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Signal words	: Warning.
Hazard statements	: Causes eye irritation. Limited carcinogenic concerns. Possible stimulus to respiratory organs (respiratory tract irritation).

Precautionary statements

Safety measure	: Avoid breathing dust.
First Aid Measures	: 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. In case of eye contact, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. In case eye irritation continues, consult with a physician for treatment.

Storage : Keep in containers.
Disposal : Ask for industrial waste disposer accepted by prefectural governors or for a local public agency for disposal.

3. Composition and Information on ingredients

Chemical substances/Mixtures : Mixtures
Chemical name or general name : Activated Carbon Filter Paper
Ingredients and Concentration or concentration range
: Cellulose (CAS No.65996-61-4)
Activated Carbon (CAS No.7440-44-0)
Glass Fiber < 8%
Guar gum (CAS No.9000-30-0)

Reference Number in Gazetted List in Japan

Law Concerning the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc.

: (8)-543 Guar gum

Japan's Industrial Safety and Health Law

: Appendix No.9-314 Artificial Mineral Fiber(Glass Fiber)

4. First Aid Measures

Inhalation : Move patient to the place with fresh air and let he/she have a rest in a position comfortable for breathing.
In case of abnormality, consult with a physician.
Skin contact : Not applicable.
Eye contact : Immediately wash eyes 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

Appropriate 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

Personal precautions, Protective equipment and emergency procedures : No data available.
Precautions for environment : No data available.
Containment and purification procedures and equipment : No data available.

7. Handling and Storage

Handling	: Avoid breathing in dust. Avoid touching the eyes and skin as much as possible. 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. Avoid hydrofluoric acids.

If a total stored amount exceeds 1,000 kg, follow Fire Defense Law (specific combustible material: rag and paper waste). (Cellulose)

8. Exposure controls / Personal protection

Acceptable concentration	Japan Society for Occupational Health : No data available.
ACGIH	: No data available.
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 state	: Solid, Paperboard with a thickness of approx. 2.5mm.
Color	: Gray.
Odor	: None.
Melting point / Freezing point	: No data available.
Boiling point or initial boiling point and Boiling range	: No data available.
Flammability	: Yes.
Lower limit and Upper limit of explosion/ Flammable limit	: Not applicable.
Flash point	: Not applicable.
Spontaneous firing 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.
Steam 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	: Avoid strong acids and strong bases. Avoid hydrofluoric acids.
Incompatible materials	: No data available.
Hazardous decomposition products	: No data available.

11. Toxicological Information

Acute toxicity	
Oral	: Classification not possible due to lack of data.
Dermal	: Classification not possible due to lack of data.
Inhalation: gas	: Classification not possible due to lack of data.
Inhalation: vapour	: Classification not possible due to lack of data.
Inhalation: dust, mist	: Classification not possible due to lack of data.
Skin corrosion / Irritation	: Classification not possible due to lack of data. (As an ingredient) Category 2 (Irritation). (Glass Fiber)
Serious eye damage and eye irritation	: Category 2B (Light irritation to eyes). (As an ingredient) Category 2B (Light irritation to eyes). (Glass Fiber)
Respiratory / Skin sensitization	: Classification not possible due to lack of data.
Germ cell mutagenicity	: Classification not possible due to lack of data.
Carcinogenicity	: Category 2. (As an ingredient) Category 2. Group 2B (Possibly carcinogenic to humans) classified by IARC. (Glass Fiber)
Reproductive toxicity	: Classification not possible due to lack of data.
Specific target organ toxicity (Single exposure)	: Category 3 (Irritation to respiratory tract) (As an ingredient) Category 3 (Irritation to respiratory tract) (Glass Fiber)
Specific target organ toxicity (Repeated exposure)	: Classification not possible due to lack of data.
Aspiration hazard	: Classification not possible due to lack of data.

12. Ecological Information

Ecotoxicity	
Hazardous to the aquatic environment (acute)	: Classification not possible due to lack of data.
Hazardous to the aquatic environment (chronic)	: Classification not possible 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	: Classification not possible due to lack of data.

13. Disposal Considerations

Dispose in accordance with federal, state and local regulations.

Just like disposal of general industrial waste, ask for industrial waste disposer accepted by prefectural governors or for a local public agency for disposal.

When incinerating the material, use the specific incineration facility. Take appropriate procedure that satisfies Clean Air Act, Waste Disposal and Public Cleaning Law, and Clean Water Law. (We recommend disposing the material as industrial waste.)

14. Transport Information

Regulatory information and local regulations

: There are no domestic regulations.

15. Regulatory Information

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

Japanese Chemical Substances Control Act.

: Existing Chemical Substances

(8)-543 Guar gum

Japan's Industrial Safety and Health Act.

: Hazards and harmful substances should be displayed or notified

Appendix No.9-314 Artificial Mineral Fiber (Glass Fiber)

Fire Defense Law : 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 (Rag and paper waste. If a total amount is 1,000 kg, follow Fire Defense Law. If a total amount is less than 1,000 kg, follow the regulations defined by municipal ordinance for storage and handling of the material). (Cellulose)

16. Other information

Handling of written contents

Contents of this data sheet are based on materials, information, and data acquirable at this point and are subject to revision due to new knowledge.

In addition, contents such as contained amount, physical and chemical properties, and hazards identification are not subject of any guarantee. These precautions are applied only during standard handling. If the material is used in a special way, take appropriate safety measures that correspond to actual applications and usages.

Each user is responsible to take appropriate measures with due consideration of contents in this sheet.

Please note that this Material Safety Data Sheet is created according to Japanese law.

List of references

- Classification method of chemicals based on GHS(JIS Z 7252: 2019)
 - Hazard communication of chemicals based on GHS - Labelling and Safety Data Sheet (SDS) (JIS Z 7253: 2019)
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