


Safety Data Sheet

1. Chemical product and Company Information

Name of chemical	: Activated Carbon Filter Pad CA-90
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	: Deodorization, decolorization
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	
Carcinogenicity	: Category 1A
Environmental hazard	: Classification not possible.
GHS Label element	
Pictograms or symbols	: 
Signal words	: Danger
Hazard statements	: Potential risk for cancer. Prolonged or repeated inhalation exposure causes lung damage.
Precautionary statements	: Avoid breathing dust. If there is not sufficient ventilation, wear respiratory protective equipment.

3. Composition and Information on ingredients

Chemical substances/Mixtures	: Mixtures	
Chemical name or general name	: Activated Carbon Filter Pad	
Ingredients and Concentration or concentration range		
Cellulose	(CAS No.65996-61-4)	
Activated carbon	(CAS No.7440-44-0)	
Diatomaceous earth	(CAS No.68855-54-9)	
Cristobalite	(CAS No.14464-46-1)	< 8%
Quartz	(CAS No.14808-60-7)	< 1%
Polyamide epichlorohydrin resin		

Reference Number in Gazetted List in Japan

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

: Diatomaceous earth

(1)-548 Cristobalite

(1)-548 Quartz

(7)-1961 Polyamide epichlorohydrin resin

Japan's Industrial Safety and Health Law : Diatomaceous earth

Appendix No.9-165-2 Silica Cristobalite

Appendix No.9-165-2 Silica Quartz

Ingredients applicable to GHS classification

: Due to the use of natural minerals(Diatomaceous earth),
the product contains up to 9wt% of crystalline silica.

4. First Aid Measures

Inhalation : If inhaled, move to a fresh air, blow nose, gargle.

If inhaled in large quantities, flush the nostrils with water and if there are any abnormalities, seek medical attention.

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

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 : Be careful with the handling of firearms.

Storage : In order to prevent the alteration and/or deterioration caused by moisture absorption, seal the container tightly and store the container at a cool and dark place.

Do not store with oxides and/or organic peroxides.

If a total stored amount exceeds 1,000 kg, follow Fire Defense Law (specific combustible material).

(Cellulose)

8. Exposure controls / Personal protection

Administrative concentration	: 3.0mg/m ³	(Activated carbon)
Acceptable concentration Japan Society for Occupational Health	: Respirable dust 0.5mg/m ³	(Activated carbon ,Diatomaceous earth)
	: Total dust 2.0mg/m ³	(Activated carbon ,Diatomaceous earth)
ACGIH	: 0.025mg/m ³	(Cristobalite)
	: 0.025mg/m ³	(Quartz)
Facility provision	: Take as needed.	
Protective equipment	: Use appropriate protective tools if necessary.	

9. Physical and Chemical Properties

Physical state	: Solid, Paperboard with a thickness of approx. 4.0mm.
Color	: Black.
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	: Not applicable.
pH	: No data available.
Kinematic viscosity	: Not applicable.
Solubility	: Insoluble in water.
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	: Heat generation and ignition may be caused by rapid oxidation. Depending on the type and concentration of the adsorbent, heat of wetting, heat of adsorption, heat of reaction, etc. may cause heat generation and ignition. (Activated carbon)
Conditions to avoid	: Direct sunshine, ultraviolet, wetting, high temperature, high humidity, open-air storage. Avoid contact with strong oxidizers.
Incompatible materials	: Strong oxidizers. (Activated carbon)
Hazardous decomposition products	: Combustion produces carbon monoxide. (Activated carbon)

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 : Not classified.

Inhalation: vapour : Not classified.

Inhalation: dust, mist : Classification not possible due to lack of data.

(As an ingredient)

Although it contains crystalline silica, which is considered to be dangerous if it is inhaled, classification is not possible due to lack of data.

(Diatomaceous earth)

Skin corrosion / Irritation : Classification not possible due to lack of data.

Serious eye damage and eye irritation : Classification not possible due to lack of data.

Respiratory / Skin sensitization : Classification not possible due to lack of data.

Germ cell mutagenicity : Classification not possible due to lack of data.

Carcinogenicity : Category 1A

It is categorized as "Category 1A" due to its content of a cut-off value (0.1%) or higher of Carcinogenicity Category 1, as the crystalline silica applicable under Category 1A

(As an ingredient)

Category 1A Contains crystalline silica that may harm your health if inhaled.

IARC classifies crystalline silica as carcinogenic to humans (Group 1).

Crystalline silica is listed on NTP as a carcinogen. (Diatomaceous earth)

Reproductive toxicity : Classification not possible due to lack of data.

Specific target organ toxicity (Single exposure)

: Classification not possible due to lack of data.

Specific target organ toxicity (Repeated exposure)

: Classification not possible due to lack of data.

(As an ingredient)

It is known that crystalline silica could cause silicosis, a non-cancerous disease.

(Diatomaceous earth)

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

: Fire Defense Law under flammable objects.

15. Regulatory Information

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

Japanese Chemical Substances Control Act.

: Existing Chemical Substances(1)-548 Cristobalite

Existing Chemical Substances(1)-548 Quartz

Existing Chemical Substances(7)-1961 Polyamide epichlorohydrin resin

Japan's Industrial Safety and Health Act.

: Hazards and harmful substances should be displayed or notified

Appendix No.9-165-2 Silica Cristobalite

Appendix No.9-165-2 Silica Quartz

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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