

Safety Data Sheet

1. Identification of the substance/preparation and company

1.1 Product details

Trade name : 「KURARAYCOAL T-B」

1.2 Supplier details

Name of distributor : Kuraray Chemical Co., Ltd.
 Address : Umeda Hankyu Building Office Tower,8-1, Kakudacho,
 Kita-Ku,Osaka 530-8611,Japan
 Telephone No. : +816-7635-1900
 Manufacturer : Kuraray Chemical Co., Ltd.
 Address : 4342, Tsurumi, Bizen City, Okayama 705-0025, Japan
 Telephone No. : +81-869-65-8331

1.3 Emergency telephone number : +81-869-65-8331

2. Hazards identification

GHS classification

Health hazards : Acute toxicity (oral), Category 4
 : Acute toxicity (dermal), Category 5
 : Skin corrosion/irritation, Category 1A
 : Serious eye damage/eye irritation, Category 1
 : Specific target organ toxicity — Single exposure, Category 3,
 Respiratory tract irritation

Other hazards than mentioned above are Not applicable or No data available.

Hazard pictograms (GHS-JP) :



Signal word (GHS-JP) :

Danger

Hazard statements (GHS-JP) :

Harmful if swallowed (H302)
 May be harmful in contact with skin (H313)
 Causes severe skin burns and eye damage (H314)
 May cause respiratory irritation (H335)

Precautionary statements

[Prevention precautionary statements] : Do not breathe dust/fume/gas/mist/vapours/spray (P260)
 Wash ... thoroughly after handling (P264)
 Do not eat, drink or smoke when using this product (P270)
 Use only outdoors or in a well-ventilated area (P271)
 Wear protective gloves/protective clothing/eye protection/
 face protection (P280)

[Response Precautionary Statements] : IF SWALLOWED: call a POISON CENTER or
 doctor/physician if you feel unwell (P301+P312)
 IF SWALLOWED: rinse mouth. Do NOT induce vomiting
 (P301+P330+P331)
 If inhaled, remove to fresh air and keep at rest in a position
 comfortable for breathing (P304+P340)
 If in eyes: Rinse cautiously with water for several minutes.
 Remove contact lenses, if present and easy to do. Continue
 rinsing (P305+P351+P338)
 If on skin, if in eyes, if swallowed, and if inhaled,
 immediately call a doctor (P310)
 Call a doctor if you feel unwell (P312)

	Specific treatment (see ... on this label) (P321)
	If swallowed, rinse mouth (P330)
	Wash contaminated clothing before reuse (P363)
[Storage precautionary statements]	: Store in a well-ventilated place. Keep container tightly closed (P403+P233)
	Store locked up (P405)
[Disposal precautionary statements]	: Dispose of contents/container to ... (P501)

3. Composition/information on ingredients

Ingredients	:Carbon	:Phosphoric Acid
CAS No.	:7440-44-0	:7664-38-2
UN No.	:Non-Correspondence	:1805
Percent	:about 73 %	:about 27 %
TLV(ACGIH)	:N/A	: -

4. First aid measures

Eye Contact	: Flush with plenty of water for at least 15 minutes and medical care immediately.
Skin Contact	: Wash with soap and large quantities of water.
Inhalation	: Keep the fresh air and warm condition and emergency care. In case of cyanosis, immediate artificial breathing. When inhale the dust of Activated Carbon, rinse mouth with water.
If Swallowed	: Vomit immediately and wash out the mouth completely, Emergency medical care should be required.
Effect of Overexposure	: Avoid exposure to dust levels above 2.9 mg per cubic meter. Long-term and low-level exposure to the dust may bring about the pneumoconiosis.

5. Fire-fighting measures

Extinguishing Media	: Foam, Multipurpose Dry Chemical and water Type Extinguishers.
Special Fire Fighting Procedure	: None
Unusual Fire and Explosion Hazards	: Contact with Strong oxidizers such as Ozone, Liquid Oxygen, Permanganate, etc. may result in fire.

6. Accidental release measures

Environmental precautions
Methods for cleaning up/taking up
Sweeping or Vacuuming (Spills can create nuisance dust and house keeping problems.)

7. Handling and storage

Ventilation	: Local exhaust is recommended,
Storage precaution	: Packaged activated carbon is not resistant to weather or outside storage and requires indoor storage facilities.

8. Exposure controls/personal protection

Japan administration level : 3 mg/m³

Name	Japan administration level	Exposure limits (JSOH)	Exposure limits (ACGIH)
Phosphoric acid			TWA 1 mg/m ³ , STEL 3 mg/m ³

Appropriate engineering controls	:	
Protective equipment		
Respiratory protection	:	Dust mask
Hand protection	:	Gloves
Eye protection	:	Framed glasses.

9. Physical and chemical properties

Physical state	:	Solid
Appearance	:	
Colour	:	black
Melting point	:	≥ 3500 °C
Boiling point	:	213 °C
Flash point	:	
Vapour pressure	:	
Specific gravity density	:	> 0.4 g/cm ³
Self ignition temperature	:	300 - 500 °C
Decomposition temperature	:	

Carbon Physical and chemical properties

Physical state	:	Solid
Melting point	:	≥ 3500 °C
Self ignition temperature	:	300 - 500 °C

Phosphoric acid Physical and chemical properties

Physical state	:	Liquid
Appearance	:	Commercial phosphoric acid (75-85%) is a clear, colorless, syrupy liquid
Colour	:	Colourless. clear
Odour	:	odorless
pH	:	1.5 (conc: 1.0 %)
Melting point	:	42.4 °C
Vapour pressure	:	0.95 hPa (at 20 °C (70% aqueous solution)) 0.75 hPa (at 20 °C (75% aqueous solution))
Density	:	1.58 - 1.7 g/cm ³ (at 20 °C)

10. Stability and reactivity

Stability	:	Stable
Incompatibility(Materials to Avoid)	:	Strong Oxidizers such as Ozone, Liquid Oxygen , Permanganate, Nitric Acid etc.
Hazardous Polymerization	:	May not occur.
Conditions to Avoid	:	Wet activated carbon removes oxygen from air causing a severe hazard to workers inside carbon vessels and enclosed or confined spaces.
Hazardous Decomposition Products	:	Contact with strong inorganic acids such as Nitric Acid and Sulfuric Acid may generate hazardous gases such as NO ₂ and SO ₂ .

11. Toxicological information

LD50 oral rat	:	> 10000 mg/kg
LD50 oral	:	10001 mg/kg

Carbon Hazardous information

LD50 oral rat	:	> 10000 mg/kg
LD50 oral	:	10001 mg/kg

Phosphoric acid Hazardous information

LD50 oral rat	:	1530 mg/kg
LD50 oral	:	1250 mg/kg
LD50 dermal rabbit	:	2730 mg/kg
LD50 dermal	:	2740 mg/kg
LC50 inhalation rat (mg/l)	:	> 850 mg/m ³ (Exposure time: 1 h)

12. Ecological information

Recommended disposal : Activated carbons that have adsorbed organic liquids and gases may lower the ignition point and must be checked for ignition point before disposal.
Disposal of in accordance with local, state, and federal regulation.
Pay special attention not to flow out to the river, water supply system, sewerage, sea.
If possible, regeneration is recommended.

13. Disposal considerations

In case of landfill, ask for permission in accordance with regulations of industrial discharges and clean in your country.

In case of incineration on the conventional way, adapt to the regulations on air pollution.

14. Transport information

International Regulations

UN-No : 1805

Marine pollutant :

Regulations in Japan

Civil Aeronautics Law : Corrosive substances

Special safety measures related to transportation : No supplementary information available

15. Regulatory information

Fire Service Law : Specified Flammable Materials, Coal / Charcoal (Article 9-4 of the Law, Article 1-12 of Ordinance Regarding Regulation on Hazardous Materials / Appended Table 4)

Civil Aeronautics Law : Corrosive substances

16. Other information

All data presented herein is based on actual measurements performed by Kuraray Chemical Co., Ltd.
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