

# SAFETY DATA SHEET

SDS No.1001-0197

Revised date July 8, 2024

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## 1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME : Active Carbon  
NAME OF SUPPLIER : GL Sciences Inc.  
ADDRESS : 22-1 Nishishinjuku 6-chome Shinjuku-ku Tokyo 163-1130, Japan  
CHARGE SECTION : International Sales Section  
TELEPHONE No. : +81-3-5323-6620  
FACSIMILE No. : +81-3-5323-6621  
PRODUCT No. : 1001-13003, 1001-13006, 1001-13008, 1001-13053, 1001-13056, 1001-13058, 1001-13103, 1001-13106, 1001-13108, 1003-  
SDS No. : 1001-0197  
Research use only.

## 2. HAZARDS IDENTIFICATION

This product is the packing material using for such as chromatography analysis, researches and developments. Although the column packed with is not dangerous goods, we show some data about this packing material for the information supplement below.

GHS CLASSIFICATION : Classification not possible  
HAZARDS SYMBOL : - - -  
SIGNAL WORD : - - -  
HAZARD STATEMENTS : It irritates the skin, eyes, nose, throat, etc. by contact and inhalation.  
Active Carbon is stipulated by the "Dust Hazard Prevention Regulations" and may cause damage if it is worked for a long time at a dust concentration higher than the allowable dust concentration.  
Active Carbon has the property of adsorbing oxygen in the air (especially in a wet state), and when handled in large quantities in a closed place, it may cause an oxygen deficiency state.  
PRECAUTIONARY STATEMENTS : - - -  
OTHER INFORMATIONS : Highly flammable if powdered. Combustible depending on physical form.  
May cause skin, eye, nose and throat irritation by contacting or inhalation.  
Particularly in wet state, active carbon is adsorbing atmospheric oxygen and may lead to hypoxia with treating large quantity in closed or sealed area.  
Dispose of contents/container in accordance with all applicable regulations.  
MOST IMPORTANT HAZARDS : Eye irritation, skin irritation, digestive tract irritation, respiratory tract irritation.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

SUBSTANCE / MIXTURE : SUBSTANCE  
COMMON CHEMICAL NAME : Active Carbon  
SYNONYMS : Carbon activated, Active carbon  
CHEMICAL FORMULA : C  
MOLECULAR WEIGHT : 12.011  
CONTENT : 100%  
CAS RN. : 7440-44-0  
TSCA INVENTORY : Listed  
EINECS No. : 231-153-3  
EC INDEX No. : Not established

## 4. FIRST AID MEASURES

GENERAL ADVICE : If fragments/respirable dust contacts with eyes or skin, wash off immediately with soap and plenty of water. In the case of respirable dust and/or fumes, use self-contained breathing apparatus and dust impervious protective suit. Use personal protective equipment. If irritation persists, consult a physician.  
INHALATION : Move victim to fresh air and gargle. If breathing is difficult, give oxygen.  
If irritation persists, consult a physician.  
SKIN CONTACT : Remove contaminated clothes and shoes, rinse skin with plenty of water or shower. Use soap to help assure removal. If irritation persists, consult a physician.

**EYE CONTACT** : Remove any contact lenses at once. Flush eyes well with flooding large amounts of running water for at least 15 minutes. Assure adequate flushing by separating the eyelids with sterile fingers. If irritation persists, consult a physician.

**INGESTION** : Rinse mouth, give plenty of water to vomit. Never give anything by mouth to an unconscious person. Consult a physician.

**MOST IMPORTANT SYMPTOMS AND EFFECTS** : Shreds and dusts may cause irritation of mucous membranes, respiratory tract, skin and eyes.

**5. FIRE FIGHTING MEASURES**

**EXTINGUISHING MEDIA** : Carbon dioxide, dry chemical powder, foam, water spray

**FIRE & EXPLOSION HAZARDS** : Toxic and irritating dust, fumes or smoke may be emitted.

**SPECIAL PROTECTIVE EQUIPMENT FOR FIRE FIGHTERS** : Fireman should wear normal protective equipment (full bunker gear) and positive-pressure self-contained breathing apparatus.

**6. ACCIDENTAL RELEASE MEASURES**

**PERSONAL PRECAUTIONS** : Remove ignition sources and ventilate the area.  
In case of insufficient ventilation, wear suitable respiratory equipment.  
Avoid raising dust and avoid contact with skin and eyes.

**ENVIRONMENTAL PRECAUTIONS** : Prevent spills from entering sewers, watercourses or low areas.

**METHODS FOR CLEANING UP** : Do not touch spilled material without suitable protection. After material is completely picked up, wash the spill site with soap and water and ventilate the area. Pull all wastes in a plastic bag for disposal and seal it tightly. Remove, clean, or dispose contaminated clothing.

**7. HANDLING AND STORAGE**

**HANDLING** : Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure. Handle material with suitable protection.  
After using this product, dispose of contents/container in accordance with all applicable regulations and appropriate ways.

**STORAGE** : Store away from moisture and water in well-ventilated dry place.  
Keep container tightly closed.

**INCOMPATIBLE PRODUCTS** : Water, moisture

**8. EXPOSURE CONTROL/PERSONAL PROTECTION**

**ENGINEERING MEASURES** : Use exhaust ventilation to keep airborne concentrations below exposure limits.  
Use adequate ventilation.

**VENTILATION** : Local Exhaust ; Necessary, Mechanical(General) ; Recommended

**CONTROL PARAMETERS**

**ACGIH** : Not established

**OSHA PEL** : TWA 15 mg/m<sup>3</sup>(Total dust as graphite), TWA 5 mg/m<sup>3</sup>(resp. as graphite)

**NIOSH REL** : Not established

**PERSONAL PROTECTION**

**RESPIRATORY PROTECTION** : Half or full face piece respirator, self-contained breathing apparatus, supplied air respirator, etc. Use respirators approved under appropriate government standards and follow all regulations.

**HAND PROTECTION** : Chemical resistant gloves

**EYE PROTECTION** : Safety glasses(goggles)

**SKIN PROTECTION** : Protective clothing

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**PHYSICAL STATE** : Solid

**COLOUR** : Black

**ODOR** : Odorless

**MELTING POINT / FREEZING POINT** : No data available

**BOILING POINT OR INITIAL BOILING POINT AND BOILING RANGE** : No data available

**FLAMMABILITY** : No data available

**LOWER AND UPPER EXPLOSION LIMIT / FLAMMABILITY LIMIT** : No data available

**FLASH POINT** : No data available

AUTO-IGNITION TEMPERATURE : 250 °C  
 DECOMPOSITION TEMPERATURE : No data available  
 pH : 6 - 8 in water  
 KINEMATIC VISCOSITY : Not applicable  
 SOLUBILITY : Insoluble  
 PARTITION COEFFICIENT  
   n-octanol/water (log value) : No data available  
 VAPOUR PRESSURE : No data available  
 DENSITY AND/OR RELATIVE DENSITY : 0.40 - 0.50 g/mL  
 RELATIVE VAPOUR DENSITY : Not applicable  
 PARTICLE CHARACTERISTICS : Not applicable

10. STABILITY AND REACTIVITY

REACTIVITY : Stable under recommended using and storage conditions.  
 CHEMICAL STABILITY : Stable under recommended storage and using conditions.  
 CONDITION TO AVOID : Sunlight, heat, moisture, CO<sub>2</sub>, oxidizers, acids, O<sub>3</sub>, Liquid nitrogen  
 INCOMPATIBLE MATERIALS : Oxidizers, acids, O<sub>3</sub>, Liquid nitrogen  
 HAZARDOUS DECOMPOSITION PRODUCTS : CO, CO<sub>2</sub>

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY : oral rat; >5000 mg/kg (RTECS)  
 SKIN CORROSION/IRRITATION : No data available  
 EYE DAMAGE/EYE IRRITATION : No data available  
 RESPIRATORY OR SKIN SENSITIZATION : No data available  
 GERM CELL MUTAGENICITY : No data available  
 CARCINOGENICITY : No data available  
 REPRODUCTIVE TOXICITY : No data available  
 SPECIFIC TARGET ORGAN TOXICITY : No data available  
 ASPIRATION TOXICITY : No data available

12. ECOLOGICAL INFORMATION

ECOTOXICITY : No data available  
 BIODEGRADABILITY : No data available  
 BIOACCUMULATION POTENTIAL : No data available  
 MOBILITY IN SOIL : No data available  
 OTHER ADVERSE EFFECTS : Not listed in Montreal Protocol list.

13. DISPOSAL INFORMATION

Dispose in a hazardous-waste site in accordance with all applicable regulations. Any disposal practice must be in compliance with country, local, state, and federal laws and regulations (contact country, local or state environment agency for specific rules).

14. TRANSPORT INFORMATION

International Regulations

Maritime regulations : Conform to the provisions of IMO.  
   UN No. : Not regulated  
   Proper Shipping Name : -  
   Class : -  
   Packing Group : -  
   Marine Pollutant : Not applicable  
 Aviation regulations : Conform to the provisions of ICAO/IATA.  
   UN No. : Not regulated  
   Proper Shipping Name : -  
   Class : -  
   Packing Group : -

**15. REGULATORY INFORMATION**

For classification and labeling of chemicals in accordance with the applicable rules and regulations in the EU or each country, refer to GHS classification of this product (See Section 2).

US REGULATION : OSHA HCS 2012/29 CFR 1910.1200

EU REGULATION : CLP Regulation ((EC) No. 1272/2008)

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**16. OTHER INFORMATION****NOTICE:**

The information contained in the SDS description is applicable exclusively to the chemical substance identified herein and for its intended use as an analytical reference standard or reagent and to the unit quantity intended for that purpose. The information does not relate to, and may not be appropriate for, any application or larger quantity of the substance described. Our products are intended for the use by individuals possessing sufficient technical skill and qualification on use the material potential hazardous chemical. Accordingly, no representation or warranty, express or implied, with respect to merchantability and fitness for a particular purpose is made with respect to the information contained herein.

**Attention:**

This product in terms of chemical identity and the unit amount provide is intended for use in chemical analysis and not for human consumption, nor any other purpose.