



荣鑫碳素  
RongXin Carbon

**Gongyi Rongxin Carbon Products Co., Ltd**  
**MATERIAL SAFETY DATA SHEET (MSDS)**

**Section I – Supplier Details**

**Supplier:** Gongyi Rongxin Carbon Products Co., Ltd  
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**Section II – Chemical / Product Information**

**Product Name:** Graphite Electrodes/Graphite Shapes/Graphite Lump/Graphite Particles  
**Chemical Name:** Artificial / Synthetic Graphite  
**Chemical Family:** Carbon

**Section III – Hazardous Composition Information**

Synthetic Graphite (C.A.S NO. 7782-42-5)

**OSHA:** 5Mg/M<sup>3</sup>

**ACGIH:** 5Mg/M<sup>3</sup>

**% (Percentage):** 99.5%

**Section IV – Physical / Chemical Characteristics**

<b>Form:</b>	Solid	<b>Solubility in Water:</b>	Insoluble
<b>Colour:</b>	Black/Grey	<b>Specific Gravity (H<sub>2</sub>O – 1):</b>	2.18
<b>Odour:</b>	None	<b>Vapour Pressure:</b>	N/A
<b>Boiling Point:</b>	N/A	<b>Vapour Density:</b>	N/A
<b>Melting Point:</b>	>2760°C	<b>% Volatile:</b>	Zero
<b>PH Level:</b>	N/A	<b>Bulk Density:</b>	1.65 g/cc – 1.75 g/cc

**Section V – Fire and Explosion Hazard Data**

**Flash Point:** N/A  
**Lower Explosive Limit:** N/A  
**Upper Explosive Limit:** N/A  
**Extinguishing Media:** CO<sub>2</sub>, Water, Dry Chemical, Foam  
**Hazardous Combustion Products:** Carbon oxides  
**Protection:** Full protective clothing must be worn in case of fire. This must include breathing apparatus.

**Section VI- Firefighting Measures**

**General Fire Hazards:** Bulk material is non-combustable  
**Suitable Extinguishing media:** Dust: Extinguish with foam, carbon dioxide, dry powder or water fog.  
**Unsuitable Extinguishing media:** None  
**Special Hazards Arising from the Substance or Mixture:** Thermal decomposition may produce smoke, oxides of carbon & lower molecular weight organic compounds whose composition have not been characterised. Explosive dust mixtures can be formed at concentrations as low as 25 g/m<sup>3</sup> when carbon/graphite dusts are milled to less than 50 microns.  
**Special Protective Equipment for Firefighters:** Use standard firefighting procedures and consider the hazards of other involved material exposed to heat with water spray and remove it if no risk is involved.  
**Special Firefighting Procedures:** Self-contained breathing apparatus & full protective clothing must be worn in case of fire.

<b>Section VII – Reactivity Data</b>	
<b>Stability:</b>	Stable
<b>Hazardous Polymerisation:</b>	Will not occur
<b>Incompatibilities:</b>	Oxidising Agents – Oxidisation will occur above 400°C with accompaniment of air.
<b>Decomposition Products:</b>	Carbon Monoxide and Carbon Dioxide.
<b>Section VIII – Health Hazard Data</b>	
<b>Primary Route of Entry:</b>	Inhalation.
<b>Acute Inhalation:</b>	Over exposure can limit the respiratory tract and this may become irritated leading to shortness of breath, coughing and/or tightness of the chest.
<b>Chronic Inhalation:</b>	Prolonged or repeated exposure may cause Pneumoconiosis.
<b>Acute Skin Contact:</b>	Mild irritation, such as itching and redness.
<b>Chronic Skin Contact:</b>	No evidence of long term health effects.
<b>Eye Contact:</b>	Mild mechanical irritation, such as tears and redness.
<b>Physical/Chemical:</b>	The material may form dust and can create an electrostatic charge which may cause a spark. Increased dust levels could create a potential explosion.
<b>Environment:</b>	This product is not thought to be hazardous to the environment.
<b>Section IX – Handling and Storage</b>	
<b>Handling:</b>	Try and reduce the production of product dust. Avoid contact with product through inhalation and eye and skin contact. Always wear correct personal protective equipment.
<b>Storage:</b>	Keep away from all sources of ignition.
<b>Section X – Protective Measures</b>	
<b>Respiratory Protection:</b>	Use an OSHA approved respirator.
<b>Eye Protection:</b>	Side shielded safety glasses or goggles.
<b>Hand protection:</b>	Working gloves that provide protection to hands.
<b>Skin Protection:</b>	Suitable clothing is required to protect contact with the skin.
<b>Control Measures:</b>	Adequate ventilation. Provide necessary personal protective equipment. Access to a washing area that provides water, soap and eye wash.
<b>Hygiene Measures:</b>	After handling the product wash the skin and ensure that personal protective equipment is always kept in a hygienic manner.
<b>Environmental:</b>	Relevant personnel should be advised if any large spillages occur.
<b>Section XI – Measures for First Aid</b>	
<b>Skin:</b>	Wash with soap and water. If skin irritation develops, seek medical advice.
<b>Eye:</b>	Flush thoroughly with luke warm water. Do not further irritate the area by rubbing. If irritation occurs get medical attention.
<b>Inhalation:</b>	Move to an area of fresh moving air. For breathing difficulties oxygen is suggested. Seek medical advice if problem persists.
<b>Section XII – Disposal Measures</b>	
<b>Disposal:</b>	Disposal methods must be in accordance with current laws and regulations and all waste must be disposed of in a sensible manner. Recycling should be undertaken wherever possible.
<b>Section XIII – Environmental Information</b>	
<b>Ecotoxicity:</b>	The product is not known to be hazardous to the environment.
<b>Degradability:</b>	This is unknown.
<b>Other Adverse Effects:</b>	None
<b>Section XIV -Accidental Release Measures</b>	
<b>Non-emergency Personnel:</b>	Avoid generation & spreading of dust. Avoid inhalation of dust & contact with skin & eyes. Remove sources of ignition. Wear suitable protective clothing & gloves.
<b>Environmental Precautions:</b>	Do not allow material to enter storm or sanitary sewers, groundwater or soil.
<b>Methods &amp; Material For Containment &amp; Cleaning up:</b>	Collect dust using a vacuum cleaner equipped with HEPA filter. If not possible, gently moisten dust before it is collected with shovel, broom or the like. Collect in approved containers & seal securely. Containers must be labelled.

**Section XV – Transport Information**

**ADR:** The product is not covered by international regulation on the transport of dangerous goods.  
**RID:** The product is not covered by international regulation on the transport of dangerous goods.  
**ADN:** The product is not covered by international regulation on the transport of dangerous goods.  
**IATA:** The product is not covered by international regulation on the transport of dangerous goods.  
**IMDG:** The product is not covered by international regulation on the transport of dangerous goods.

**Section XVI – Regulatory Information**

**EU Regulations**

**Regulation (EC) No. 2037/2000 on substances that deplete the ozone layer, Annex I**  
Not listed

**Regulation (EC) No. 2037/2000 on substances that deplete the ozone layer, Annex II**  
Not listed

**Regulation (EC) No. 850/2004 on persistent organic pollutants, Annex I**  
Not listed

**Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals. Annex I, part 1**  
Not listed

**Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals. Annex I, part 2**  
Not listed

**Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals. Annex I, part 3**  
Not listed

**Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex V**  
Not listed

**Directive 96/61/EC concerning integrated pollution prevention and control (IPPC): Article 15, European Pollution Emission Registry (EPER)**  
Not listed

**Regulation (EC) No. 1907/2006, REACH Article 59 (1). Candidate List**  
Not listed

**National Regulations:** Safety data sheet available for professional user on request.

**Chemical Safety Assessment:** No chemical safety assessment has been carried out.

*Disclaimer: Gongyi Rongxin Carbon Products Co., Ltd asks that all users of the above named products are advised of the full information contained in the Material Safety Data Sheet. It is essential that all users are fully aware of all the hazards and control measures surrounding the product(s). The above information is supplied without warranty. The information presented is true and correct to the best of Gongyi Rongxin Carbon Products Co., Ltd' s knowledge.*