



# Material Safety Data Sheet

## iGS Sheets (all size)

### Section 1: Chemical Product and Company Identification

Product Name: iGS Sheet (all size)
Synonyms: iGS025, iGS030
Chemical Name: Graphite
Chemical Formula: C
CAS#:7440-44-0
Manufacturer Information: Company Name: Ce-Tech Co., Ltd. Address: 48 Xuetian Rd. Wuri, Taichung, Taiwan 41456 TEL:+886-4-2337-3348
Emergency TEL/Fax : +886-4-2337-3348 / +886-4-2337-3990

### Section 2: Composition and Information on Ingredients

Ingredient Name	Carbon
CAS #	7440-44-0
% by weight	>99%
Toxicological Data on Ingredients:	LD50: Not available; LC50: Not available

### Section 3: Hazards Identification

Potential Health Effects	Slightly hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation.
Environmental Effects	Not available
Physical and chemical effects	Graphite is electrically conductive. Care should be taken, therefore, to avoid accumulations of graphite dusts or powders in places where these accumulations could cause shorting of electrical switches, circuits or components.

### Section 4: First Aid Measures

Eye Contact	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation occurs.
Skin Contact	Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops.
Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
Ingestion	Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.

**Section 5: Fire and Explosion Data**

Auto-Ignition Temperature	Not Available
Special Fire Fighting Procedure	Wear self-contained breathing apparatus when fighting fires in confined location.
Extinguisher Media	SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. Do not use water jet.
Special Remarks on Fire Hazards	None
Unusual Fire and Explosion Hazard	Incineration of carbon fibers can generate airborne fibers that may cause electrical shorting

**Section 6: Accidental Release Measures**

Personal precautions	Wear necessary protective equipment. (Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this Product.)
Environmental precautions	Avoid subsoil penetration. Prevent product from entering drains. Do not contaminate surface water.
Methods for cleaning up	Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

**Section 7: Handling and Storage**

Usage Precautions	Avoid handling which leads to dust formation, Provide ventilation.
Storage Precautions	Store at moderate temperature in dry, well ventilated area.

**Section 8: Exposure Controls/Personal Protection**

Engineering Controls: Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.			
OSHA PEL TWA	ACGIH TLV TWA	NIOSH REL TWA	-
2.5mg/m <sup>3</sup>	2mg/m <sup>3</sup>	2.5mg/m <sup>3</sup>	-
Personal Protection: Safety glasses. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.			
Hygienic Work Routines : Wash at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes contaminated. Promptly remove any clothing that becomes contaminated. No eating or drinking while working with this material. DO NOT SMOKE IN WORK AREA.			

**Section 9: Physical and Chemical Properties**

Physical state	Solid	Appearance	Sheet
Color	Black	Odor	Odorless
pH value	N/A	Boiling Point	N/A
Melting Point	3650°C (6602°F)	Flash Point	N/A
Volatility	N/A	LEL	N/A
Vapor Pressure	N/A	Vapor Density	N/A
Specific Gravity	> 1.9	Solubility	Insoluble in water

**Section 10: Stability and Reactivity Data**

Stability: Normally Stable
Incompatibility: Strong oxidizing agents.
Hazardous Decomposition Products: Fire or high temperature create: Asphyxiating gases/vapors/fumes of : Carbon Oxide, Airborne particulates (electrically conductive).

**Section 11: Toxicological Information**

Inhalation: Dust may irritate respiratory system or lungs. Ingestion: May cause discomfort if swallowed. Skin: Irritation Eyes: Particles in the eyes because of abrasive action may cause irritation.
LD50: N/A LC50: N/A
Special Remarks on other Toxic Effects on Humans: Nuisance dust. Acute Potential Health Effects: Skin: Causes skin irritation. Eyes: Dust causes eye irritation. Inhalation: May be harmful if inhaled. Dust causes respiratory tract and mucous membrane irritation. Ingestion: May be harmful if swallowed. May cause gastrointestinal (digestive) tract irritation with nausea and vomiting. Chronic Potential Health Effects: Inhalation of high concentrations of graphite dust over prolonged periods of time may cause pneumoconiosis. Symptoms can include cough, shortness of breath, and decrease of pulmonary function. Preexisting pulmonary disorders such as emphysema may possibly be aggravated by prolonged exposure to high concentrations of graphite dust. This toxicology of this substance has not been fully investigated

**Section 12: Ecological Information**

Environmental Hazards: Not regulated as dangerous for the environment.

**Section 13: Disposal Considerations**

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations.
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**Section 14: Transport Information**

Road	Not classified for transportation
Hazard Class (ADR)	Not classified for transportation
Rail	Not classified for transportation
Sea	Not classified for transportation
Air	Not classified for transportation

**Section 15: Other Regulatory Information**

Taiwan Regulations: Labor Safety and Health Act Enforcement Rules of the Labor Safety and Health Act Regulation of Labelling and Hazard Communication of Dangerous and Harmful Materials Standards of Permissible Exposure Limits of Airborne Hazardous Substances in Workplace Traffic Regulation Methods and Facilities Standards for the Storage, Clearance and Disposal of Industrial Waste
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**Section 16: Other Information**

Reference	N/A
Editor	
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Notice	The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall CeTech be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if CeTech has been advised of the possibility of such damages