



金能科技有限责任公司

JINNENG SCIENCE & TECHNOLOGY CO., LTD.

NO.1 JINNENG ROAD, QIHE, SHANDONG, CHINA POST CODE: 251100

# MATERIAL SAFETY DATA SHEET

## SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** CARBON BLACK

**COMPANY IDENTIFICATION:**

**COMPANY NAME:** JINNENG SCIENCE & TECHNOLOGY CO., LTD.

**ADDRESS:** NO.1 JINNENG ROAD, QIHE, SHANDONG TEL: 0086 534 2159666 FAX: 0086 534 2159600 **24-HOUR EMERGENCY TELEPHONE NUMBERS:** 0086 534 2159900

## SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENT	CAS NUMBER	AMOUNT
CARBON BLACK	1333-86-4	100.00 % weight

## SECTION 3 HAZARDS IDENTIFICATION

### EMERGENCY OVERVIEW

Odorless black powder.

- MAY CAUSE RESPIRATORY TRACT IRRITATION IF INHALED

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### IMMEDIATE HEALTH EFFECTS:

**Eye:** Not expected to cause prolonged or significant eye irritation.

**Skin:** Not expected to be harmful to internal organs if absorbed through the skin. Contact with the skin is not expected to cause prolonged or significant irritation.

**Ingestion:** Not expected to be harmful if swallowed.

**Inhalation:** The dust from this material may cause respiratory irritation. Symptoms of respiratory irritation may include coughing and difficulty breathing.

### DELAYED OR OTHER HEALTH EFFECTS:



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**Cancer:** May cause cancer in laboratory animals, but the available information is inadequate to determine if this material can cause cancer in humans.

See Section 11 for additional information.

Risk depends on duration and level of exposure.

## **SECTION 4 FIRST AID MEASURES**

**Eye:** No specific first aid measures are required because this material is not expected to cause eye irritation. As a precaution, remove contact lenses, if worn, and flush eyes with water.

**Skin:** To remove the material from skin, use soap and water. Discard contaminated clothing and shoes or thoroughly clean before reuse.

**Ingestion:** If swallowed, do not induce vomiting. Give the person a glass of water or milk to drink and get medical attention. Never give anything by mouth to an unconscious person.

**Inhalation:** Move the exposed person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention if breathing difficulties continue.

## **SECTION 5 FIRE FIGHTING MEASURES**

The ignition temperature of this material in air is approximately 900C. If ignited, flames may not be visible in the burning powder. Some heat and smoke may be noticeable. Soaking with water may spread the fire due to the burning powder floating on the water. High pressure fire extinguishing equipment may blow the burning powder into other areas resulting in more fires. **RECOMMENDED ACTION:** If possible, isolate the burning powder into an open area (preferably outside), monitor, and allow the fire to burn it out. Gently applying a fine water mist to the area of the fire may be helpful. Stop spraying if water starts to puddle. Eliminating the source of oxygen may also be helpful. **DO NOT** spray with high pressure fire extinguishers.

**NFPA RATINGS:** Health: 1 Flammability: 1 Reactivity: 0

### **FLAMMABLE PROPERTIES:**

**Flashpoint:** NDA

**Autoignition:** 900 °C (1652°F)

**Flammability (Explosive) Limits (% by volume in air):** Lower: NA Upper: NA

### **PROTECTION OF FIRE FIGHTERS:**

**Fire Fighting Instructions:** For fires involving this material, do not enter any enclosed or confined fire



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space without proper protective equipment, including self-contained breathing apparatus. This material will burn although it is not easily ignited.

**Combustion Products:** Normal combustion forms carbon dioxide and water vapor; incomplete combustion can produce carbon monoxide.

## **SECTION 6 ACCIDENTAL RELEASE MEASURES**

**Spill Management:** Clean up spills immediately, observing precautions in Exposure Controls/Personal Protection section. Sweep up material and place in a disposable container.

**Reporting:** This product is neither listed as a hazardous waste nor does it exhibit any of the characteristics that would cause it to be classified or disposed of as a RCRA hazardous waste.

## **SECTION 7 HANDLING AND STORAGE**

Read and observe all precautions on product label. Refer to product label or manufacturers technical bulletins for the proper use and handling of this material.

**Precautionary Measures:** Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling.

**Static Hazard:** Electrostatic charge may accumulate and create a hazardous condition when handling this material. To minimize this hazard, bonding and grounding may be necessary but may not, by themselves, be sufficient. Review all operations, which have the potential of generating an accumulation of electrostatic charge and/or a flammable atmosphere (including tank and container filling, splash filling, tank cleaning, sampling, gauging, switch loading, filtering, mixing, agitation, and vacuum truck operations) and use appropriate mitigating procedures. For more information, refer to OSHA Standard 29 CFR 1910.106, 'Flammable and Combustible Liquids', National Fire Protection Association (NFPA 77), 'Recommended Practice on Static Electricity', and/or the American Petroleum Institute (API) Recommended Practice 2003, 'Protection Against Ignitions Arising Out of Static, Lightning, and Stray Currents'.

## **SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION**

### **GENERAL CONSIDERATIONS:**

Consider the potential hazards of this material (see Section 3), applicable exposure limits, job activities, and other substances in the work place when designing engineering controls and selecting personal protective equipment. If engineering controls or work practices are not adequate to prevent exposure



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to harmful levels of this material, the personal protective equipment listed below is recommended. The user should read and understand all instructions and limitations supplied with the equipment since protection is usually provided for a limited time or under certain circumstances.

#### **PERSONAL PROTECTIVE EQUIPMENT:**

**Eye/Face Protection:** No special eye protection is normally required. Where splashing is possible, wear safety glasses with side shields as a good safety practice.

**Skin Protection:** Wear impervious protective clothing to prevent skin contact. Selection of protective clothing may include gloves, apron, boots, and complete facial protection depending on operations conducted. Users should determine acceptable performance characteristics of protective clothing. Consider physical requirements and other substances present when selecting protective clothing. Suggested materials for protective gloves include: No skin protection is ordinarily required under normal conditions of use.

**Respiratory Protection:** Wear a NIOSH approved respirator that provides protection when working with this material if exposure to harmful levels of airborne material may occur, such as: Air-Purifying Respirator for Dusts and Mists

#### **Occupational Exposure Limits:**

Component	Limit	TWA	STEL	Ceiling	Notation
CARBON BLACK	ACGIH_TLV	3.5 mg/m <sup>3</sup>	NA	NA	NA
CARBON BLACK	OSHA_PEL	3.5 mg/m <sup>3</sup>	NA	NA	NA

### **SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**

APPEARANCE AND ODOR: Odorless black powder.

pH: 6.5 - 7.5

VAPOR PRESSURE: NA

VAPOR DENSITY (AIR=1): NA

BOILING POINT: 3500 °C (6332°F)

SOLUBILITY: NDA

DENSITY: 1.75 g/cm<sup>3</sup>

### **SECTION 10 STABILITY AND REACTIVITY**



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**Chemical Stability:** This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

**Conditions to Avoid:** No Data Available

**Incompatibility With Other Materials:** No data available

**Hazardous Decomposition Products:** No Data Available

**Hazardous Polymerization:** Hazardous polymerization will not occur.

## **SECTION 11 TOXICOLOGICAL INFORMATION**

### **IMMEDIATE HEALTH EFFECTS:**

**Acute Oral Toxicity:** The oral LD50 is undetermined.

**Acute Dermal Toxicity:** The dermal LD50 is undetermined.

**Eye Irritation:** This material is not expected to be irritating to the eyes.

**Skin Irritation:** This material is not expected to be irritating to the skin.

**Respiratory Tract Irritation:** This material is a mild irritant to the respiratory tract.

### **ADDITIONAL TOXICOLOGY INFORMATION:**

The International Agency for Research on Cancer (IARC) has classified carbon black as a Group 2B carcinogen (possibly carcinogenic to humans) based on sufficient evidence in animals and inadequate evidence in humans. Carbon black has not been listed as a carcinogen by the National Toxicology Program or the Occupational Safety and Health Administration. Acetylene black, a high purity carbon black, is made from the thermal decomposition of acetylene gas. It is a pure form of carbon containing less than 0.2 ppm polycyclic aromatic hydrocarbons (PAHs). Therefore, acetylene black is not expected to directly interact with DNA to present a cancer risk by skin exposure or by inhalation.

## **SECTION 12 ECOLOGICAL INFORMATION**

### **ECOTOXICITY:**

The toxicity of this material to aquatic organisms has not been evaluated. Consequently, this material should be kept out of sewage and drainage systems and all bodies of water.

### **ENVIRONMENTAL FATE:**

This material is not expected to present an environmental problem.



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### **SECTION 13 DISPOSAL CONSIDERATIONS**

Use material for its intended purpose or recycle if possible.

Package product waste, close and label the waste receptacles and , likewise, any uncleaned empty containers.

Dispose of them at a suitable waste disposal in accordance with the official regulations.

### **SECTION 14 TRANSPORT INFORMATION**

The description shown may not apply to all shipping situations. Consult 49CFR, or appropriate Dangerous Goods Regulations, for additional description requirements (e.g., technical name) and mode-specific or quantity-specific shipping requirements.

#### **US DOT**

Not regulated as a hazardous material or dangerous goods for transportation

#### **ICAO / IATA**

Not regulated as a hazardous material or dangerous goods for transportation

#### **IMO / IMDG**

Not regulated as a hazardous material or dangerous goods for transportation

#### **RID / ADR**

Not regulated as a hazardous material or dangerous goods for transportation

### **SECTION 15 REGULATORY INFORMATION**

Not labeling is required.

### **SECTION 16 OTHER INFORMATION**

The data given here is based on current knowledge and experience. The purpose of this safety data is to describe the products in terms of their safety requirements. The data does not signify any warranty with regard to the products' properties.