

1. Product and Company Identification

- **Product Name:** Recovered Carbon Black
- **Synonyms:** RCB, Recycled Carbon Black, Sustainable Carbon Black
- **Manufacturer:** GoGreen Enterprises
- **Address:** 9th KM Haridwar Delhi Road, Jwalapur, Haridwar, Uttarakhand – 249407, INDIA
- **Emergency Contact Number:** +91-1334-249000

2. Hazard Identification

- **Emergency Overview:**
Fine black powder, slightly gritty to the touch. Non-combustible but can generate fine dust, which may form explosive mixtures in air. Inhalation may cause respiratory irritation.
- **GHS Classification (India):**
Carcinogenicity: Category 2
STOT RE (Specific Target Organ Toxicity - Repeated Exposure): Category 2 (Inhalation)
Skin Irritation: Category 3
Eye Irritation: Category 2B
- **GHS Label Elements:**
Pictograms:



Signal Word: Warning

- **Hazard Statements:**
H351: Suspected of causing cancer.
H373: May cause damage to lungs through prolonged or repeated exposure.
H316: Causes mild skin irritation.
H320: Causes eye irritation.
- **Precautionary Statements:**
P202: Do not handle until all safety precautions have been read and understood.
P261: Avoid breathing dust.
P280: Wear protective gloves, clothing, and eye protection.
P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.

3. Composition/Information on Ingredients

Components	Weight %
Carbon	87.00% - 78.00%
Residual Inorganic Component	8.00% - 12.00%
Silica	8.00% - 10.00%
Moisture	0.5%-1.5%

4. First-Aid Measures

- **Inhalation:** Move the person to fresh air. If breathing is difficult, administer oxygen. Seek medical attention if symptoms persist.
- **Skin Contact:** Wash skin with soap and water. If irritation occurs, seek medical advice.
- **Eye Contact:** Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. If irritation persists, seek medical attention.
- **Ingestion:** Rinse mouth with water. Do not induce vomiting. Seek medical attention if large amounts are ingested.

5. Fire-Fighting Measures

- **Suitable Extinguishing Media:** Water spray, foam, dry chemical, or CO₂.
- **Unsuitable Extinguishing Media:** Do not use water jet as it may disperse the dust into the air.
- **Specific Hazards Arising from the Chemical:** Combustion may produce carbon monoxide (CO) and carbon dioxide (CO₂).
- **Special Protective Equipment:** Firefighters should wear self-contained breathing apparatus and full protective clothing to prevent exposure to toxic fumes.

6. Accidental Release Measures

- **Personal Precautions:** Avoid dust formation. Use protective equipment as specified in Section 8. Evacuate personnel to safe areas.
- **Environmental Precautions:** Prevent further leakage or spillage if safe to do so. Do not allow the product to enter drains or waterways.
- **Methods for Cleanup:** Sweep or vacuum up material, avoiding the generation of dust. Place in suitable, labelled containers for disposal. Use water spray to prevent dust formation if necessary.

7. Handling and Storage

- **Handling:** Avoid dust generation. Use adequate ventilation. Avoid contact with skin, eyes, and clothing. Wash thoroughly after handling.
- **Storage:** Store in a cool, dry, well-ventilated area away from incompatible substances. Keep container tightly closed. Store in a location with minimal ignition sources.

8. Exposure Controls/Personal Protection

- **Occupational Exposure Limits (India):**
OSHA PEL: 3.5 mg/m³ (TWA)
ACGIH TLV: 3 mg/m³ (TWA) (Inhalable Fraction)
Indian Factory Act - Permissible Exposure Limit (PEL): 10 mg/m³ (Total Dust), 5 mg/m³ (Respirable Dust)
- **Engineering Controls:** Use local exhaust ventilation to keep airborne concentrations below the exposure limits.
- **Personal Protective Equipment (PPE):**
Respiratory Protection: Use a NIOSH/IS 9473:2021-approved respirator when exposure limits are exceeded.
Hand Protection: Wear nitrile or rubber gloves.
Eye Protection: Safety goggles or face shield.
Skin Protection: Wear long-sleeved clothing to minimize skin contact.

9. Physical and Chemical Properties

- **Appearance:** Black powder
- **Odor:** Odorless
- **Odor Threshold:** Not applicable
- **pH:** 6-9 (suspension in water)
- **Melting Point/Freezing Point:** >3,500 C (Sublimation)
- **Boiling Point/Range:** Not applicable
- **Flash Point:** Not applicable
- **Evaporation Rate:** Not applicable
- **Flammability (solid, gas):** Not flammable, but dust can form explosive mixtures in air
- **Upper/Lower Flammability Limits:** Not applicable
- **Vapor Pressure:** Not applicable
- **Vapor Density:** Not applicable
- **Relative Density:** 1.7-1.9 g/cm³
- **Solubility:** Insoluble in water
- **Partition Coefficient (n-octanol/water):** Not applicable
- **Auto-ignition Temperature:** >500°C
- **Decomposition Temperature:** Not available
- **Viscosity:** Not applicable

10. Stability and Reactivity

- **Reactivity:** Not reactive under normal conditions.
- **Chemical Stability:** Stable under recommended storage conditions.
- **Possibility of Hazardous Reactions:** None under normal processing.
- **Conditions to Avoid:** Avoid dust formation. Keep away from oxidizing agents and sources of ignition.
- **Incompatible Materials:** Strong oxidizing agents, acids, and alkalis.
- **Hazardous Decomposition Products:** Carbon monoxide (CO), carbon dioxide (CO₂), and other potentially toxic fumes if burned.

11. Toxicological Information

- **Acute Toxicity:**
Oral LD50 (Rat): > 10,000 mg/kg
Dermal LD50 (Rabbit): > 3,000 mg/kg
Inhalation LC50 (Rat, 4 hr): > 6.75 mg/L

- **Skin Corrosion/Irritation:** Causes mild skin irritation based on animal studies.
- **Serious Eye Damage/Irritation:** Causes eye irritation in animal studies.
- **Respiratory or Skin Sensitization:** Not classified as a sensitizer based on available data.
- **Germ Cell Mutagenicity:** Not classified as mutagenic.
- **Carcinogenicity:**
IARC: Group 2B (Possibly carcinogenic to humans)
Indian Standards: Classified under Schedule 1 of the Manufacture, Storage, and Import of Hazardous Chemical Rules, 1989, India.
- **Reproductive Toxicity:** Not classified.
- **STOT - Single Exposure:** Not classified.
- **STOT - Repeated Exposure:** May cause damage to the lungs through prolonged or repeated inhalation exposure.
- **Aspiration Hazard:** Not applicable.

12. Ecological Information

- **Ecotoxicity:**
Fish (LC50, 96 hr): > 1,000 mg/L (Danio rerio)
Daphnia (EC50, 48 hr): > 5,600 mg/L (Daphnia magna)
Algae (EC50, 72 hr): > 10,000 mg/L (Desmodesmus subspicatus)
- **Persistence and Degradability:** Recovered carbon black is not biodegradable and persists in the environment.
- **Bioaccumulative Potential:** Not expected to bioaccumulate.
- **Mobility in Soil:** Low mobility, tends to settle in soil.
- **Other Adverse Effects:** No known significant effects or critical hazards.

13. Disposal Considerations

- **Waste Treatment Methods:** Dispose of in accordance with The Hazardous Wastes (Management, Handling, and Transboundary Movement) Rules, 2008, and other applicable local, state, and national regulations. Do not allow the material to enter sewers or watercourses.
- **Contaminated Packaging:** Containers should be treated as industrial waste and disposed of according to local regulations. Do not reuse containers for other purposes.

14. Transport Information

- **UN Number:** Not regulated
- **UN Proper Shipping Name:** Not regulated
- **Transport Hazard Class:** Not regulated
- **Packing Group:** Not regulated
- **Environmental Hazards:** Not applicable
- **Special Precautions:** None
- **Transport Information (India):**
Rail/Road (IRD Rules): Not regulated
Sea (IMDG Code): Not regulated
Air (IATA): Not regulated

15. Regulatory Information

- **Indian Regulations:**
The Factories Act, 1948: Adhere to occupational exposure limits and ensure proper safety measures are in place.
The Manufacture, Storage, and Import of Hazardous Chemical Rules, 1989: Ensure compliance with the regulations concerning hazardous substances.
The Hazardous Wastes (Management, Handling, and Transboundary Movement) Rules, 2008: Follow proper disposal procedures.

16. Other Information

Prepared By: GoGreen Enterprises
Date of Issue: August 07, 2024
Revision Number: 7

Disclaimer: The information provided in this MSDS is based on current knowledge and experience in India and internationally. It is intended to describe the product from the perspective of health, safety, and environmental requirements. This MSDS should not be considered as a warranty or quality specification. The product should be used in accordance with applicable laws and regulations.