MATERIAL SAFETY DATA SHEET Recovered Carbon Black Powder

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Recovered Carbon Black (rCB), Tire Derived Carbon powder
Chemical Synonym: Tire Char powder
Chemical Family: Carbon, Petroleum Derivative Chemical Formula: N/A
Manufacturer: Shantol Green Energy (India) Pvt. Ltd.
Plot No. 2621 & 2622, Road D/2, Lodhika G.I.D.C., Kalawad Road, P.O. Metoda, Taluka: Lodhika, District: Rajkot – 360021, Gujarat, India
Call: +91-2827-287888 and +91-2827-287889
Material Origin: Survey No. 2894, Village: Rupaheli Chouraha, Th.: Hurda, District: Bhilwara – 311026, Rajasthan, India

NFPA Classification: health/1/hazardous, fire/1/flammability, reactivity/0/stable
Date of MSDS preparation or update: 1st January 2015

2. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture of saturated and unsaturated hydrocarbons.

<table>
<thead>
<tr>
<th>PEL -Permissible Exposure</th>
<th>OSHA</th>
<th>WA State</th>
<th>ACGIH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemical Limit</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Constituents</td>
<td>Cas #</td>
<td>% by Weight</td>
<td>TWA</td>
</tr>
<tr>
<td>Carbon Black</td>
<td>7440-44-0</td>
<td>100</td>
<td>3.5mg/M3</td>
</tr>
</tbody>
</table>

TWA, STEL, IDLH in parts per million TLV -Threshold Limit Value -maximum full time concentration TWA -Time Weighted Average - 8 hour period STEL -Short Term Exposure Limit -15 minutes/60 minute interval/4 times per day maximum IDLH -Immediate Danger to Life and Health -30 minute exposure threshold

3. HAZARDS IDENTIFICATION

Eyes: ACUTE – Nuisance dust, may cause discomfort or irritation due to scratching. CHRONIC – None reported
Skin: ACUTE – May cause irritation, follicular blackheads or irritation if extended contact. CHRONIC – None reported
Inhalation: ACUTE – Dust is classified as nuisance dust. CHRONIC – None reported.
Ingestion: ACUTE -Dust is classified as nuisance dust. CHRONIC – None reported.
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4. FIRST AID MEASURES

Eyes: Flush with eye solution or water, gently lifting lids to clean.
Skin: Remove contaminated clothing taking precautions to avoid breathing dust that becomes airborne. Wash skin with soap and water. Get medical attention if symptoms occur. Wash contaminated clothing as desired.
Inhalation: Remove to fresh air. Get medical attention if symptoms occur.
Ingestion: Drink 1-2 glasses of water. Get medical attention if symptoms occur.

5. FIRE FIGHTING MEASURES

Flash Point: NA Method: NA Flammability Limits: Not Determined Special Fire Fighting Procedures: Airborne carbon dust can ignite. Burning carbon may not be obvious, may be seen as sparking or flowing when stirred. Extinguishing Media: Water, dry chemical, carbon dioxide or other media for Class A Combustibles is effective. Unusual Fire and Explosion Hazard: Not Determined.

6. ACCIDENTAL RELEASE MEASURES

Spill Control and Recovery: Use water to control dust, scoop up into container for disposal.

7. HANDLING AND STORAGE

Stability: Material is stable under normal storage and handling situations.
Incompatibility: Avoid contact with acids and oxidizing agents.
Hazardous Decomposition Products: NA
Hazardous Polymerization: NA
Storage: Store in tight sealed container at ambient temperature in well ventilated areas. Do not store near flame or heat.
Handling: Only in well ventilated areas. Keep container closed. Dust containment is difficult.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls: Use process enclosures.
Administrative Controls: Training must be conducted before routine and non-routine handling.
Respiratory Protection: Maintain atmospheric levels below exposure limits.
Protective Equipment: As desired.
Protective Gloves: As desired.
Eye Protection: As desired.
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9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Black</td>
</tr>
<tr>
<td>Physical State</td>
<td>Dusty powder</td>
</tr>
<tr>
<td>Odor</td>
<td>None to slight</td>
</tr>
<tr>
<td>Ph</td>
<td>6.7</td>
</tr>
<tr>
<td>Specific Gravity (H₂O=1)</td>
<td>1.7 – 1.9</td>
</tr>
<tr>
<td>Viscosity</td>
<td>NA</td>
</tr>
<tr>
<td>Volatiles By Vol.%</td>
<td>NA</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>NA</td>
</tr>
<tr>
<td>Vapor Pressure (mm/hg)</td>
<td>Not Determined</td>
</tr>
<tr>
<td>Vapor Density (air=1)</td>
<td>Not Determined</td>
</tr>
<tr>
<td>Flash Point</td>
<td>NA</td>
</tr>
<tr>
<td>Auto Ignition Temp</td>
<td>Not Determined</td>
</tr>
<tr>
<td>Evaporation Rate (Butyl Acetate=1):</td>
<td>Not Determined</td>
</tr>
<tr>
<td>Solubility in Water</td>
<td>Not Determined</td>
</tr>
</tbody>
</table>

10. STABILITY AND REACTIVITY

Chemical stability: Stable under normal storage and handling situations.
Incompatibility: Avoid contact with acids and oxidizing agents.
Hazardous decomposition products: Carbon Monoxide
Hazardous polymerization: NA

11. TOXICOLOGY/CARCINOGENITY INFORMATION

Toxicology:
LD₅₀ (rat), > 8000 mg/kg
Carcinogenity: NA

12. ECOLOGICAL INFORMATION

No special hazards or considerations for this product.

13. DISPOSAL CONSIDERATIONS

Not considered a Hazardous Material or Hazardous Waste. Waste must be disposed of in an environmentally safe manner and in accordance with federal, state, and local environmental control regulations.
14. TRANSPORTATION INFORMATION

Not considered a Hazardous Material under US DOT Regulations.

15. REGULATORY INFORMATION

OSHA Status: NA.

16. OTHER INFORMATION

Shantol Green Energy (India) Pvt. Ltd provides the information in this MSDS in good faith. The MSDS represents an evaluation of Recovered Carbon Black / Tire Derived Carbon based on available analytical and industrial hygiene information. No evaluation of potential additive or synergistic effects were considered in the development of this MSDS. Individuals receiving the information must exercise their independent judgement in determining its appropriateness for particular purpose or use.