

# Material Safety Data Sheets For Gouge Tech/Lightening Carbon-Rod

Product Name: Gouge Tech-Lightening Carbon-Rod  
Printing Date: September 5, 2003

Part 1 of 2  
Reviewed on Sept. 5, 2003

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Identification of the product:** Gouge Tech Lightning Rod (Carbon Rod).

- CAS No.: 7440-44-0
- Chemical Formula: C

### **Company**

- Flame Technologies, Inc.
- 703 Cypress Creek Rd.
- Cedar Park, Tx. 78613
- 800-749-3682 / 512-219-8481
- Website: [www.flametechnologies.com](http://www.flametechnologies.com)
- Email: [stoops@flametechnologies.com](mailto:stoops@flametechnologies.com)
- Emergency information: Telephone: 800-749-3682

## 2. HAZARDS IDENTIFICATION

### **Potential Health Effects:**

- Eye: Dust may cause eye irritation
- Skin Contact: Dust may cause skin irritation.
- Inhalation: Dust is suspected as being possible inhalation hazards.
- Ingestion: Not known
- Chronic Effects: A review of the literature does not show obvious long-term hazard.

## 3. FIRST-AID MEASURES

- Eyes: In case of contact, immediately flush eyes with copious amounts of flowing water for at least 15 minutes, retracting eyelids often.
- Get medical attention immediately. Contact lenses should not be worn when working with this product.
- Skin: Wash skin thoroughly with mild soap and water. Flush with warm water for 15 minutes.
- Inhalation: If large amounts of the dust are inhaled, move the exposed person to fresh air at once. If symptoms persist contact physician.
- Ingestion: Not known
- Chronic Effects: A review of the literature does not show obvious long-term hazard.

## 4. MEASURE FOR FIRE FIGHTING

- Flammability classification: Not classified.
- Flash Point/Method: Not known, but very high!
- Auto-Ignition Temperature: Not determined.
- Flammable Limits: Lower: Not applicable / Upper: Not applicable
- Extinguishing Media: Non-burning
- Special Conditions to Avoid: None known
- Hazardous products of Combustion: None known
- Unusual Fire Hazards: None known
- Firefighting procedures/instructions: Treat the surrounding fire; this product is non-burning.
- Properties that could increase fire or explosion hazard: None known.

## 5. ACCIDENTAL RELEASE MEASURES

- This product is not subject to "accidental release" in the form of normal use.

## 6. EXPOSURE RESTRICTIONS AND PERSONAL SAFETY PROTECTION

- Personal Protective Equipment (PPE):
- Eye/Face Protection: ANSI 87.1 approved safety glasses with side shield when sharpening these rods.
- Skin Protection: No particular protection needed when handling this material on an occasional basis.
- Respiratory Protection:
- For the occasional breaking of a rod, which might require "scoring", the surface to get a clean break, protection is not needed. However, if some large number of rods were going to be broken in this way, then such an operation should be done in a chemical fume hood with exhaust.

**(EXPOSURE RESTRICTIONS AND PERSONAL SAFETY PROTECTION CONTINUED):**

- Air supplied or fume respirator should be used if ventilation is insufficient.
- GLOVES: Welders
- RESPIRATOR: See above
- EYE: Face shield or welders helmet with #12 or darker lens
- FOOTWEAR: Suitable for metal working
- CLOTHING: Dark, substantial, aprons, etc.
- OTHER: See z49.1
- VENTILATION: Local exhaust as required to reduce fumes generated by each specific application below ACGIH TLV.
- MECHANICAL: See Ventilation
- OTHER: Air sampling to determine corrective measures
- WORK/HYGIENIC PRACTICES: Operator trained to avoid electrical shock and U.V. ray exposure.
- EMERGENCY AND FIRST AID PROCEDURES: Remove to fresh air. If breathing impaired, assisted respiration may be required. Treat U.V. exposure similar to severe sunburn, seek medical attention!
- Other: Non known

**7. PHYSICAL AND CHEMICAL PROPERTIES**

- Odor: None
- Boiling Point/Range: 3000° Min.
- Melting Point/Range: Not Available
- Solubility in water: None
- Carbon: 98.6% Min.
- Ash Content: 0.59%
- Water: 0.34%
- Electrical Resistance: 17.1-18.7
- Density: 1.57g/cm<sup>3</sup>
- Breaking Strength: 28.0Mpa
- Thickness of Copper Layer: 0.07~0.12mm

**8. STABILITY AND REACTIVITY**

- Chemical Stability: The product is stable under normal use conditions.
- Reactivity: This material is not reactive.
- Conditions to Avoid: Heat, sparks, flames, and other ignition sources; avoid heating above 290°
- Incompatibility (materials to avoid): Strong oxidizers, fluorine, peroxides.

**9. DISPOSAL CONSIDERATIONS**

- All recovered material should be packaged, transported and disposed of using good engineering practices.
- Disposal method must be in compliance with local, state, and federal regulations regarding health, air and water pollution.

**10. TRANSPORT INFORMATION**

- Proper Shipping Name: Not Regulated
- Packing Group: Not Applicable.
- Labels: Not Regulated.
- Marine Pollutant: No Information

**10. OTHER INFORMATION**

- The preceding details are based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. Existing laws and provisions are to be heeded by the recipient of our product at their own risk.

**REFERENCES:**

- "Chemical Guide to OSHA Hazard Communication Standard: First Edition
- "Handbook of Toxic and Hazardous Chemicals and Carcinogens" Second Edition
- "Registry of Toxic Effects of Chemical Substances"
- "NIOSH Pocket guide to Chemical Hazards" June 1994