



## MATERIAL SAFETY DATA SHEET

### CARBON ARC GOUGING RODS

Version Date 1/3/98

#### Section 1 Product Identification

Trade Name : Carbon Arc Gouging Rods  
HMIS : 4 – Severe Hazard  
3 – Serious Hazard  
2 – Moderate Hazard  
1 – Slight Hazard  
0 – Minimal Hazard

#### Section 2 Hazardous Components

<u>Material</u>	<u>% By Weight</u>	<u>CAS Number</u>	<u>ACGIH TLV (Mo/M3)</u>	<u>SEC 313</u>
Synthetic Graphite	20 – 90%	7782-42-5	10MG/M3	NA
Carbon	20 – 90%	7740-44-0	10MG/M3	NA
Copper	10 – 30%	7440-50-8	0.2MG/M3	Yes

#### Section 3 Physical Properties

Boiling Point : NA  
Melting Point : NA  
Vapor Pressure : NA  
  
Vapor Density (Air =1) : NA  
Solubility in water : Insoluble  
Specific Gravity : NA  
Evaporation Rate : NA  
Appearance and Odor : Copper coloured black tips. No Odor

#### Section 4 Fire and Explosion Data

Flash Point : NA  
Extinguishing Media : Sand, Carbon Dioxide, Water  
Special Procedures : None  
Unusual Hazards : None



---

### Section 5 Reactivity Data

---

Stability : Stable  
Conditions to avoid : None  
Hazardous Polymerization : Will not occur  
Incompatibility : NA  
Hazardous Decomposition Products : When burning CO<sub>2</sub>, CO and traces of copper fumes (Ozone, Nitrogen-Oxide from the electric and U.V. Rays)

---

### Section 6 Health Hazard Data

---

Routes of entry : Inhalation, U.V. Exposure  
Health Hazards : Fume: Bronchitis, Lung Deposits and Tissue damage which may be irreversible. Exposure to Ultra-violet arc rays can result in Keratitis conjunctivitis, causing inflammation blurred vision, headache, sunburn.  
Carcinogenicity : NA  
Signs & Symptoms of Exposure : Breathing difficulty, Headache, Nausea, Dryness or Irritation of nose, throat, eyes. Burning sensation of skin or eyes. Unconsciousness  
Medical Conditions from Exposure : Respiratory problems, Erythemas  
Emergency & First Aid : Remove to fresh air, if breathing impaired. Assisted respiration may be required. Treat U.V. exposure similar to severe sun-burn. Seek medical attention.  
Additional Information : NA

---

### Section 7 Precautions for Safe Handling and Use

---

Spill & Leak Procedures : Sweep or remove (Alert to Hot Ends)  
Waste & Disposal Method : Dispose of, in accordance with Local, State and Federal Regulations  
Handling & Storing Precautions : Store in Dry Area  
Other Precautions : Electrode exposed to moisture may explode violently if used. Dry moist electrode by baking at 300F. Read and Understand "ANSI Z49.1" subpart Q of OSHA 29 CFR 1910.252 "Safety in Welding and Cutting" By the American Welding Society.



---

### Section 8 Control Measures

---

Respiratory Measures	: Air supplied or fume respirator should be used if ventilation is insufficient.
Ventilation	: All as required to reduce fumes generated by each specific application below ACGIH TLV
Protective Gloves	: Welder's glove
Eye Protection	: Face shield or welder's helmet with #12 or darker lens.
Other Protection Equipment	: Footwear and clothing suitable for metal working: dark, substantial-aprons, etc. Hearing protection required.
Work/Hygienic Practices	: Operator trained to avoid electrical shock and U.V. ray exposure. For maximum safety: be certified for, and wear a respirator at all times when welding or brazing.

---

### Section 9 Disclaimer

---

The information in this MSDS was obtained from sources which we believe are reliable. The conditions or method of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge, For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expenses arising out of or in any way connected with handling, storage, use or disposal of the product. This MSDS was prepared and is use only for this product. If the product is used as a component in another products, this MSDS may not be applicable

---

### Section 10 Additional Information

---

NA + Not applicable