

SAFETY DATA SHEET

AC GOUGING COPPERCLAD
ELECTRODES**SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY**

1.1 Product Identifier

Trade Name: AC GOUGING COPPERCLAD ELECTRODES

1.2 Relevant identified uses of the substance or mixture and uses advised against

Not Applicable

1.3 Details of the supplier of the safety data sheet

WELDING MATERIAL SALES

1340 REED ROAD

GENEVA, IL 60134

888-905-6737

1.4 Emergency telephone number (24 hours)

800-424-9300

SECTION 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

The product is not classified

2.2 Label elements

The product does not require labeling

2.3 Other hazards

Not applicable

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Chemical Name	CAS No. EC No. REACH No.	Concentration	Classification	R-phrase H-phrase
Graphite	7782-42-5 - -	59-70% - -	- - -	- - -
Copper	7440-50-8 231-159-6 01-2119480154-42	18-30%	- -	- -
Cerium oxide	1306-38-3 - -	6-8%	- -	- -
Carbon black	1333-86-4 -	4-5%	- -	- -

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SECTION 4. FIRST AID MEASURES

4.1 Description of first aid measures

No first aid measures should be required for the unused electrodes.

Skin contact: flush skin with large amounts of water. If irritation develops and persists, get medical attention.

Eye contact: Flush eyes with water as a precaution.

Ingestion: DO NOT induce vomiting unless directed to do so by a physician or poison control center.

4.2 Most important symptoms and effects, both acute and delayed

Get medical attention/advise if you feel unwell.

4.3 Indication of any immediate medical attention and special treatments needed

Not applicable

SECTION 5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media: use dry chemical, CO₂, water spray or “alcohol” foam

5.2 Special hazards arising from the substance or mixture

Not applicable

5.3 Advice for firefighters

Not applicable

Additional information in case of fire: Not combustible

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Not applicable

6.2 Environmental precautions

Not applicable

6.3 Methods and material for containment and cleaning up

Not applicable

6.4 Reference to other sections

Not applicable

SECTION 7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Preventive handling precautions: No special technical protective measures required.

7.2 Conditions for safe storage, including any incompatibilities

Keep in a dry place.

7.3 Specific end use(s)

Not applicable

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Exposure limits: OSHA PEL (mg/m3): Carbon Black=3.5 ACGIH TLV (mg/m3): Carbon black=3.5, Graphite, Synthetic=2, Graphite, Natural=2 OSHA PEL (mg/m3): Copper (mists and dust) =1, ACGIH TLV (mg/m3): Copper (mists and dust) =1 OSHA PEL (mg/m3): Copper (fume)=0.1, ACGIH TLV (mg/m3): Copper (fume)=0.2

National occupational exposure limits

CAS No.	EC No.	Exposure Limit ppm	Exposure Limit mg/m3	Short term exposure limit ppm	Short term exposure limit mg/m3	Ceiling limit ppm	Ceiling limit ppm/m3	Country
7440-50-8	-	-	0,2	-	2	-	-	BA
7782-42-5	-	-	4	-	-	-	-	BA
1333-86-4	-	-	3,5	-	7	-	-	BA

8.2 Exposure controls

Not applicable

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance:	Copper plating for surface of carbon rod
Appearance, Color	Copper brown
Appearance, physical state	Not applicable
Auto-ignition temperature	Not applicable
Boiling point	Carbon 4027 degrees celsius, Copper 2927 degrees Celsius, cerium oxide 3500 degrees Celsius
Decomposition temperature	Not applicable
Evaporation rate	Not applicable
Explosive properties	Not applicable
Flammability (solid, gas)	Not applicable
Flash point	Not applicable
Initial boiling point/range	Not applicable
Melting point	Carbon 3527 degrees Celsius, Copper 1084 degrees Celsius, Cerium Oxide 2400 degrees Celsius
Melting point/freezing point	Not applicable
Odor	Not applicable
Odor threshold	Not applicable
Oxidizing properties	Not applicable
Partition coefficient: (n-octanol/water)	Not applicable
pH value	Not applicable

Physical state	Solid
Relative density	Carbon 1.7g/cm ³ , Copper 8.9g/cm ³
Solubility	Not applicable

Upper/lower flammability or explosive limits	Not applicable
Vapor density	Not applicable
Vapor pressure	Not applicable
Viscosity	Not applicable
9.2 Other information	Not applicable

SECTION 10. STABILITY AND REACTIVITY

10.1 Reactivity

No hazards to be especially mentioned

10.2 Chemical stability

Stable under recommended storage conditions

10.3 Possibility of hazardous reactions

Not applicable

10.4 Conditions to avoid

Not applicable

10.5 Incompatible materials

Not applicable

10.6 Hazardous decomposition products

Not applicable

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

Not applicable

Irritation

Not applicable

Corrosive effects

Not applicable

Sensitization

Not applicable

Mutagenicity

Not applicable

Carcinogenicity

WARNING! This product contains a chemical known in the State of California to cause cancer. California Prop. 65

Repeated dose toxicity

Not applicable

Reproductive toxicity
Not applicable

SECTION 12. ECOLOGICAL INFORMATION

- 12.1 Toxicity
Aquatic-not water endangering
- 12.2 Persistence and degradability
Not applicable
- 12.3 Bioaccumulative potential
Not applicable
- 12.4 Mobility in soil
Not applicable
- 12.5 Results of PBT and vPvB assessment
Not applicable
- 12.6 Other adverse effects
Not applicable

SECTION 13. DISPOSAL CONSIDERATIONS

- 13.1 Waste treatment methods
Disposal considerations-can be landfilled, when in compliance with local regulations

SECTION 14. TRANSPORT INFORMATION

- 14.1 UN number
Not applicable
- 14.2 UN proper shipping name
Not applicable
- 14.3 Transport hazard class(es)
Not applicable
- 14.4 Packing group
Not applicable
- 14.5 Environmental hazards
Not applicable
- 14.6 Special precautions for user
Not applicable
- 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Not applicable

SECTION 15. REGULATORY INFORMATION

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
National regulations-EPCRA/SARA Title III 313 Toxic Chemicals
- 15.2 Chemical safety assessment
Not applicable

SECTION 16. OTHER INFORMATION

Additional Information: For further information, please also consult our internet site information derived from practical experience. The information provided in the Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication.