



SAFETY DATA SHEET

Part Number: 20-XXX-003

AC GOUGING COPPERCLAD ELECTRODES

SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

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

Supplier ARCAIR

Street address 2800 Airport Road
76207 Denton

Telephone 940-381-1323

1.4 Emergency telephone number

Emergency phone number 940-566-2000

Available outside office hours Yes

SECTION 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

The product is not classified

2.2 Label elements

The product do 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%	-	-



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	- -		-	-
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%	- -	- -

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/advice if you feel unwell.

4.3 Indication of any immediate medical attention and special treatment 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

Other



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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

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National occupational exposure limits

CAS No.	EC No.	Exposure Limit Values ppm / mg/m3	Short term exposure limit ppm / mg/m3	Ceiling Limit Value ppm / mg/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, colour	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 and boiling range	Not applicable
Melting point	Carbon 3527 degrees celsius, Copper 1084 degrees celsius, Cerium Oxide 2400 degrees celsius
Melting point / freezing point	Not applicable
Odour	Not applicable
Odour treshold	Not applicable
Oxidising properties	Not applicable



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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
Vapour density	Not applicable
Vapour 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



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11.1 Information on toxicological effects

Acute toxicity	Not applicable
Irritation	Not applicable
Corrosive effects	Not applicable
Sensitisation	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
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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.
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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

Other

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