

ARCAIR CO SUB OF AIR PRODUCTS AND CHEMICALS INC -- ARCAIR AIR CARBON ARC  
ELECTRODES (SUPPLEMENTAL) -- 3439-00-870-9934

===== Product Identification =====

Product ID:ARCAIR AIR CARBON ARC ELECTRODES (SUPPLEMENTAL)

MSDS Date:07/01/1989

FSC:3439

NIIN:00-870-9934

MSDS Number: CBTBL

=== Responsible Party ===

Company Name:ARCAIR CO SUB OF AIR PRODUCTS AND CHEMICALS INC

Address:4200 WEST HARRY ST

Box:122

50

City:WICHITA

State:KS

ZIP:67277

Country:US

Info Phone Num:316-942-1421

Emergency Phone Num:316-942-1421

CAGE:09687

=== Contractor Identification ===

Company Name:ARCAIR CO SUB OF AIR PRODUCTS AND CHEMICALS INC

Address:4200 WEST HARRY ST

Box:12250

City:WICHITA

State:KS

ZIP:67277

Country:US

Phone:316-942-1421

CAGE:09687

===== Composition/Information on Ingredients =====

Ingred Name:GRAPHITE, SYNTHETIC

CAS:7440-44-0

RTECS #:FF5250100

Fraction by Wt: 20-80%

Other REC Limits:NO

NE RECOMMENDED  
OSHA PEL:15 MG/M3 TDUST  
ACGIH TLV:2 MG/M3 TDUST; 9596

Ingred Name:GRAPHITE, NATURAL  
CAS:7782-42-5  
RTECS #:MD9659600  
Fraction by Wt: 20-80%  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:15 MPPCF; Z-3  
ACGIH TLV:2 MG/M3 RDUST; 9596

Ingred Name:COPPER (SARA 313) (CERCLA)  
CAS:7440-50-8  
RTECS #:GL5325000  
Fraction by Wt: 10-30%  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:0.1MG/M3 FUME/1 DUST  
ACGIH TLV:0.2 MG/M3 FUME; 9596  
EPA Rpt Qty:5000 LBS  
DOT Rpt Qty:5000 LBS

Ingred Name:CARBON BLACK  
(FULLY BAKED OUT)  
CAS:1333-86-4  
RTECS #:FF5800000  
Fraction by Wt: SEE ING  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:3.5 MG/M3  
ACGIH TLV:3.5 MG/M3; 9596

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===== Hazards Identification =====

LD50 LC50 Mixture:NONE SPECIFIED BY MANUFACTURER.  
Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:FUME:BRONCHITIS,LUNG DEPOSITS & TISSUE  
DMG WHICH MAY BE IRREVERSIBLE.EXPO TO ULTR  
A-VIOLET ARC RAYS CAN  
RESULT IN KERATOCONJUNCTIVITS CAUSING INFLAMM,BLURRED  
VISION,HEADACHE-"SUNBURN".  
Explanation of Carcinogenicity:PER MSDS:CARCINOGENICITY:NOT CURRENTLY  
LISTED.  
Effects of Overexposure:BREATHING DIFFICULTY, HEADACHE, NAUSEA, DRYNESS  
OR IRRITATION OR NOSE, THROAT, EYES. BURNING SENSATION OF  
SKIN/EYES. UNCONSCIOUSNESS.  
Medical Cond Aggravated by Exposure:RESPIRATORY PROBLEMS, ERYTHMAS.

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===== First Aid Measures =====

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First Aid: REMOVE TO FRESH AIR. IF BREATHING IMPAIRED, ASSISTED RESPIRATION MAY BE REQUIRED. TREAT UV EXPOSURE SIMILAR TO SEVERE SUNBURN, SEEK MED ATTN.

===== Fire Fighting Measures =====

Flash Point: NA  
Autoignition Temp: Autoignition Temp Text: NA  
Lower Limits: NA  
Upper Limits: NA  
Extinguishing Media: NONE SPECIFIED BY MANUFACTURER. HMIS: USE APPROPRIATE FIRE EXTINGUISHING MEDIA FOR SURROUNDING FIRE/MATERIALS.  
Fire Fighting Procedures: NONE SPECIFIED BY MANUFACTURER.  
Unusual Fire/Explosion Hazard: NONE.

===== Accidental Release Measures =====

Spill Release Procedures: SWEEP OR PICK UP. BE ALERT TO "HOT ENDS".  
Neutralizing Agent: NONE SPECIFIED BY MANUFACTURER.

===== Handling and Storage =====

Handling and Storage Precautions: STORE IN DRY AREA. ELECTRODES EXPOSED TO MOISTURE MAY EXPLODE VIOLENTLY IF USED. DRY MOIST RODS BY BAKING @ 300F FOR 10 HOURS.  
Other Precautions: READ/UNDERSTAND AMER NAT STD Z49.1; SUBPART Q OF OSHA 29CFR 1910.252 SAF IN WELD/CUT BY AMER WELD SOC. HEALTH/PHYS HAZ ASSOC W/AIR CARBON ARC ELECTRODES ARE ATTRIBUTABLE TO FUMES GENERATED WHEN ELECTRODES ARE USED/CONSUMED.

===== Exposure Controls/Personal Protection =====

Respiratory Protection: AIR SUPPLIED OR FUME RESPIRATOR MUST BE USED IF VENTILATION IS INSUFFICIENT.  
Ventilation: LOC EXHAU: ALL AS REQUIRED TO REDUCE FUMES GENERATED BY EACH SPEC APPLICATION BEL ACGIH TLV.  
V. OTHER: AIR SAMPLING TO (SUPPLEMENT)  
Protective Gloves: WELDERS GLOVES.  
Eye Protection: FACE SHIELD OR WELDERS HELMET W/ #12/DKR LEN  
Other Protective Equipment: SEE Z49. DARK, SUBSTANTIAL CLOTHING-APRONS, ETC. SUITABLE FOOTWEAR FOR METAL WORKING.  
Work Hygienic Practices: OPERATOR TRAINED TO AVOID ELECTRICAL SHOCK & UV RAY EXPOSURE.  
Supplemental Safety and Health  
ARCAIR GOUGHING ELECTRODES, COPPERCIAD JETROD; CAT # : 20-, 21-, 22-, 24-, 35- SERIES. VENTI: DETERMINE CORRECTIVE MEASURE.

===== Ph

Physical/Chemical Properties =====

HCC:N1

Boiling Pt:B.P. Text:NA

Melt/Freeze Pt:M.P/F.P Text:NA

Decomp Temp:Decomp Text:NP

Vapor Pres:NA

Vapor Density:NA

Spec Gravity:NA

pH:NA

Viscosity:NP

Evaporation Rate & Reference:NA

Solubility in Water:NOT SOLUBLE.

Appearance and Odor:SOLID, NO NOTABLE ODOR, COPPER COATED BLACK ROD.

Percent Volatiles by Volume:NP

Corrosion Rate:NP

===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid:Y

ES

NONE KNOWN.

Hazardous Decomposition Products:CARBON MONOXIDE, CARBON DIOXIDE,  
TRACES OF COPPER FUME (OZONE, NITROGEN OXIDE FROM ELECTRIC ARC & UV  
RAYS).

===== Disposal Considerations =====

Waste Disposal Methods:SOLID LANDFILL IF LOCAL REGULATIONS ALLOW.

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