

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:12

250

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:N

ONE 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

=====  
===== 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 ULT  
RA-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.

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

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 EXPO TO MOISTURE MAY EXPLODE VIOLENTLY IF USED.DRY MOIST RODS BY BAKING @300F FOR 10HOURS.  
Other Precautions:READ/UNDERST AND AMER NAT STD Z49.1;SUBPART Q OF OSHA 29CFR1910.252 SAF IN WELD/CUT BY AMER WELD SOC.HEALTH/PHYS HAZ ASSOC W/AIR CARBON ARC ELECTRODES ARE ATTRIBUTABLE TO FUMES GENERATED WHEN ELECTRODE S 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 T LV.OTHER:AIR SMPLING TO (SUPPLE)  
Protective Gloves:WELDERS GLOVES.  
Eye Protection:FCSHIELD 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.

===== P

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:

YES

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.

Disclaimer (provided with this information by the compiling agencies):

This information is formulated for use by elements of the Department  
of Defense. The United States of America in no manner  
whatsoever,

expressly or implied, warrants this information to be accurate and  
disclaims all liability for its use. Any person utilizing this  
document should seek competent professional advice to verify and  
assume responsibility for the suitability of this information to their  
particular situation.