

ARCAIR COMPANY INC.SUBS.OF AIR PRODUCTS & CHEMICAL -- AIR CARBON ARC ELECTRODES
-- 3439-00-262-4229

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

Product ID: AIR CARBON ARC ELECTRODES

MSDS Date: 07/01/1989

FSC: 3439

NIIN: 00-262-4229

MSDS Number: BHXYB

=== Responsible Party ===

Company Name: ARCAIR COMPANY INC.SUBS.OF AIR PRODUCTS & CHEMICAL

Address: 4200 WEST HARRY ST

Box: 12250

City: WICHITA

State: KS

ZIP: 67277

Cou

ntry: US

Info Phone Num: 316-942-1421

Emergency Phone Num: 316-942-1421

Preparer's Name: OPERATIONS DEPARTMENT

CAGE: KO945

=== 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

Company Name: ARCAIR COMPANY INC.SUBS.OF AIR PRODUCTS & CHEMICAL

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

Ingred Name:GRAPHITE, SYNTHETIC
CAS:7440-44-0
RTECS #:FF5250100
Fraction by Wt: 20-80%
Other REC Limits:NONE SPECIFIED
OSHA PEL:15 MG/M3 TDUST
ACGIH TLV:2 MG/M3 TDUST; 9293

Ingred Name:GRAPHITE, NATURAL
CAS:7782-42-5
RTECS #:MD9659600
Fraction by Wt: 20-80%
Other REC Limits:NONE SPECIFIED
OSHA PEL:15 MPPCF RDUST
ACGIH TLV:2 MG/M3 RDUST; 9293

Ingred Name:COPPER (SARA III)
CAS:7440-50-8
RTECS #:GL5325000
Fraction by Wt: 10-30%
Other REC Limits:NONE SPECIFIED
OSHA PEL:0.1MG/M3 FUME/1 DUST
ACGIH TLV:0.2MG/M3 FUME; 9192
EPA Rpt Qty:5000 LBS
DOT Rpt Qty:5000 LBS

Ingred Name:CARBON BLACK
CAS:1333-86-4
RTECS #:FF5800000
Fraction by Wt: BAKED
Other REC Limits:NONE SPECIFIED
OSHA PEL:3.5 MG/M3
ACGIH TLV:3.5 MG/M3; 9192

==== Hazards Identification =====

Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chron

ic:FUMES AND GASES CAN BE DANGEROUS TO
YOUR HEALTH. ARC RAYS CAN INJURE EYES AND BURN SKIN. ELECTRIC SHOCK
CAN KILL.

Effects of Overexposure:ACUTE:METALLIC TASTE,NAUSEA,TIGHTNESS OF
CHEST,FEVER,DIZZINESS,DRYNESS,IRRITATION OF EYES,NOSE AND THROAT.
CHRONIC:EXCESSIVE LEVELS MAY CAUSE BRONQUIAL ASTHMA,LUNG FIBROSIS
AND PNEUMOCONIOSIS. EXPOSUR E TO ULTRAVIOLET LIGHT CAN CAUSE
INFLAMMATION, BLURRED VISION, HEADACHE, "SUNBURN".

Medical Cond Aggravated by Exposure:AGGRAVATION OF
EXISTING RESPIRATORY
OR ALLERGIC CONDITIONS, ERYTHMAS. HIGHER LEVEL OF LUNG RELATED
PROBLEMS AMONG SMOKERS.

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

First Aid:REMOVE FROM EXPOSURE AND OBTAIN PROMPT MEDICAL ATTENTION. IF
NOT BREATHING,GIVE CPR/OXYGEN. EMPLOY FIRST AID TECHNIQUES
RECOMMENDED BY AMERICAN RED CROSS. TREAT UV EXPOSURE SIMILAR TO
SUNBURN,SEE DOCT OR.

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

Extinguishing

Media:AS APPROPRIATE FOR SURROUNDING FIRE.

Fire Fighting Procedures:FIRE FIGHTERS SHOULD USE NIOSH APPROVED SCBA &
FULL PROTECTIVE EQUIPMENT WHEN FIGHTING CHEMICAL FIRE. USE WATER
SPRAY TO COOL NEARBY CONTAINERS EXPOSED TO FIRE.

Unusual Fire/Explosion Hazard:FIRE OR EXCESSIVE HEAT MAY CAUSE
PRODUCTION OF HAZARDOUS DECOMPOSITION PRODUCTS.

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

Spill Release Procedures:CLEAN UP ANY GRINDING DUST OR WASTE RESIDUE
AND PL
ACE IN APPROPRIATE DISPOSAL CONTAINER.

===== 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
AT 300F FOR TEN HOURS.

Other Precautions:TRAIN WELDER TO KEEP HIS HEAD OUT OF THE
FUMES.MONITOR AIR TO ENSURE ACCEPTABLE EXPOSURES.AVOID ELECTRICAL
SHOCK BY MAINTAINING DRY WORK AREA. WELDING ARC CAN IGNITE
COMBUSTIBLES AND FLAMMABLE

S.

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

Respiratory Protection:FUME RESPIRATOR OR AIR SUPPLIED RESPIRATOR IN
CONFINED SPACES OR WHERE VENTILATION DOES NOT KEEP EXPOSURE BELOW
TLV.

Ventilation:LOCAL EXHAUST TO KEEP BELOW TLV.

Protective Gloves:WELDER'S GLOVES.

Eye Protection:HELMET OR FACE SHIELD WITH FILTER LENS.

Other Protective Equipment:SUBSTANTIAL DARK CLOTH,ARM
PROTECTOR,APRON,HAT AND SHOULDER PROTECTION. AIR SAMPLING TO
DETERMINE CORRECTIVE
MEASURES.

Work Hygienic Practices:WASH HANDS THOROUGHLY BEFORE EATING,SMOKING OR
USING SANITARY FACILITIES. AVOID ELECTRICAL SHOCK AND UV EXPOSURE.

Supplemental Safety and Health
NONE.

===== Physical/Chemical Properties =====

HCC:N1

Solubility in Water:INSOLUBLE

Appearance and Odor:SOLID, NOT NOTABLE ODOR, COPPER COATED BLACK ROD.

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

Stability Indicator/Materials to Avoid:YES
NONE.

Stability Cond
ition to Avoid:NONE.

Hazardous Decomposition Products:FUMES OF METALS AND METAL OXIDES FROM
ELECTRODE AND BASE METAL, CARBON MONOXIDE, CARBON DIOXIDE, OZONE,
NITROGEN OXIDES.

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

Waste Disposal Methods:CONSULT WITH YOUR LOCAL ENVIRONMENTAL
OFFICER.DISPOSE OF FUMES,FLUX OR WELD GRINDING RESIDUE FROM THE
WORK AREA OR FROM FILTERS IN ACCORDANCE WITH FEDERAL,STATE AND
LOCAL ENVIRONMENTAL REGULATIONS.

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