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ARCAIR CO SUB OF AIR PRODUCTS AND CHEMICALS INC -- AIR CARBON ARC ELECTRODE -- 3439-00-288-4048

Product ID: AIR CARBON ARC ELECTRODE MSDS Date:10/31/1990 FSC:3439 NIIN:00-288-4048 MSDS Number: BDTZY === Responsible Party === 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 Info Phone Num:316-942-1421 Emergency Phone Num:316-942-1421 Preparer's Name: DENNIS WILSON 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 Company Name: SMITH S J CO INC Address:3707 W RIVER DR Box:City:DAVENPORT State:IA ZIP:52802-2411 Country:US Phone:319-324-5237 CAGE:2N560 Company Name: TWECO PRODUCTS, INC. Address:4200 WEST HAR

RY ST. Box:12250 City:WICHITA State:KS ZIP:67277 Country:US Phone:316-946-8308;316-942-1421 CAGE:89381

Ingred Name:GRAPHITE, SYNTHETIC * CAS:7440-44-0 RTECS #:FF5250100 Fraction by Wt: 20-90% OSHA PEL:3.5 MG/M3 (MFR) ACGIH TLV:2 MG/M3 TDUST; 9192

Ingred Name:GRAPHITE, NATURAL * CAS:7782-42-5 RTECS #:MD9659600 Fraction by Wt: 20-90% OSHA PEL:2.5 MG/M3 RDUST * ACGIH TLV:2 MG/M3 RDUST; 9192

Ingred Name:COPPER (SARA III) * CAS: 7440-50-8 RTECS #:GL5325000 Fraction by Wt: 10-30% 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 */FULLY BAKED OUT CAS:1333-86-4 RTECS #:FF5800000 OSHA PEL:3.5 MG/M3 * ACGIH TLV:3.5 MG/M3; 9192 *

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

O FUMES MAY CAUSE BRONCHITIS,LUNG DEPOSITS AND TISSUE DAMAGE WHICH MAY BE IRREVERSIBLE. EXPOSURE TO ULTRA- VIOLET ARC RAYS CAN RESULT IN KERATOCONJUNCTIVITIS,CAUSING INFLAMMATION, BLURRED VI SION,HEADACHE-"SUNBURN".
Explanation of Carcinogenicity:NONE OF THE CHEMICALS IN THIS PRODUCT IS LISTED BY IARC, NTP OR OSHA AS A CARCINOGEN. Effects of Overexposure:BREATHING DIFFICULTY,HEADACHE,NAUSEA,DRYNESS OR
IRRITATION OF NOSE, THROAT AND EYES. BURNING SENSATION OF SKIN OR EY ES. UNCONSCIOUSNESS.
Medical Cond Aggravated by Exposure:PERSONS WITH A HISTORY OF RESPIRATORY DISORDERS MAY BE AT INCREASED RISK FROM EXPOSURE.
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First Aid:FOR INHALATION EXPOSURE, REMOVE TO FRESH AIR. IF BREATHING IMPAIRED, ASSISTED RESPIRATION MAY BE REQUIRED. TREAT U. V. SIMILAR TO SEVERE SUNBURN, SEEK MEDIAL ATTENTION!
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Flash Point:NOT FLAMMA BLE
Lower Limits:NOT GIVEN Upper Limits:NOT GIVEN
Extinguishing Media:NONFLAMMABLE. USE MEDIA AS APPROPIATE FOR SURROUNDING FIRE.
Fire Fighting Procedures:WEAR FULL PROTECTIVE CLOTHING AND NIOSH- APPROVED SELF-CONTAINED BREATHING APPARATUS WITH FULL FACEPIECE OPERATED IN THE POSITIVE PRESSURE MODE.
Unusual Fire/Explosion Hazard:NONE SPECIFIED BY MANUFACTURER.
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Spill Release Procedures:SWEEP OR PICK UP. BE ALERT TO " HOT ENDS".
Neutralizing Agent:NONE APPLICABLE FOR THIS MATERIAL
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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: READ AND UNDERSTAND "AMERICAN NATIONAL STANDARD

Z49.1"; SUBPART Q OF OSHA 29 CFR 1910.252; "SAFETY IN WELDING AND CUTTING" BY THE AMERICAN WELDING SOCIETY.

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

Respiratory Protection: AIR SUPPLIED OR FUME RESPIRATOR MUST BE USED IF VENTILATION IS INSUFFICIENT.
Ventilation: LOCAL EXHAUST VENTILATION TO KEEP EXPOSURE BELOW TLV.
Protective Gloves: WELDER'S GLOVES
Eye Protection: WELDER'S HELMET WITH # 12 OR DARKER LENS
Other Protective Equipment: DARK, SUBSTANTIAL APRONS, FOOTWEAR SUITABLE FOR METAL WORKING.
Work Hygienic Practices: FOLLOW STANDARD HYGIENE PRACTICES OF YOUR LOCAL SHOP.
Supplemen tal Safety and Health
TRAIN OPERATOR TO AVOID ELECTRICAL SHOCK AND EXPOSURE TO U.V. RAYS. SAMPLE AIR TO DETERMINE EXPOSURE CONCENTRATIONS AND TO TAKE CORRECTIVE ACTION.

HCC:N1 Boiling Pt:B.P. Text:NOT GIVEN Melt/Freeze Pt:M.P/F.P Text:NOT GIVEN Vapor Pres:NOT GIVEN Vapor Density:NOT GIVEN Spec Gravity:NOT GIVEN Evaporation Rate & amp; Reference:NIL Solubility in Water:INSOLUBLE Appearance and Odor:COPPER COATED BLACK R OD. NO NOTABLE ODOR.

Stability Indicator/Materials to Avoid:YES NONE SPECIFIED BY MANUFACTURER. Stability Condition to Avoid:NONE SPECIFIED BY MANUFACTURER. Hazardous Decomposition Products:CARBON DIOXIDE, CARBON MONOXIDE, TRACES OF COPPER FUME (OZONE, NITROGEN OXIDE FROM THE ELECTRIC ARC AND UV RAYS).

Waste Disposal Methods:CONTACT YOUR LOCAL ENVIRO

NMENTAL OFFICER.

DISPOSE OF AT SOLID LANDFILL IF REGULATIONS ALLOW. DISPOSE OF IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL LAWS AND REGULATIONS.

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