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ARCOS CORP WIRE DRAWING PLANT SUB OF ARCOS CORP -- COVERED WELDING ELECTRODES -- 3439-00-262-2688

Product ID:COVERED WELDING ELECTRODES MSDS Date:11/15/1991 FSC:3439 NIIN:00-262-2688 MSDS Number: BQNNZ === Responsible Party === Company Name: ARCOS CORP WIRE DRAWING PLANT SUB OF ARCOS CORP Address:1 ARCOS DRIVE City:MT CARMEL State:PA ZIP:17851 Country:US Info Pho ne Num:717-339-5200 Emergency Phone Num:717-339-5200/800-424-9300(CHEMTREC) CAGE:19270 === Contractor Identification === Company Name: ARCOS ALLOYS DIVISION OF HOSKINS MFG. CO. Address:#1 ARCOS DRIVE Box:City:MT CARMEL State:PA ZIP:17851 Country:US Phone:570-339-5200; 717-339-5200 CAGE:19270 Ingred Name: SPECIFIC PART NUMBER NOT KNOWN. PERCENTAGE SHOWN ARE A RANGE OF ALL POSSIBLE COMBINATIONS. RTECS #:9999999ZZ Ingred Name :IRON CAS:7439-89-6 RTECS #:NO4565500 Fraction by Wt: BALANCE Other REC Limits:NONE RECOMMENDED OSHA PEL:10 MG/M3(FE2O3 FUME) ACGIH TLV:5 MG/M3 (FE2O3 FUME) Ingred Name:CHROMIUM (SARA III) CAS:7440-47-3 RTECS #:GB4200000 Fraction by Wt: 6-28% Other REC Limits:NONE RECOMMENDED OSHA PEL:1 MG/M3 ACGIH TLV:0.5 MG/M3; 9293 EPA Rpt Qty:1 LB DOT Rpt Qty:1 LB Ingred Name:COPPER (SARA III)

CAS:7440-50-8

1 DUST ACGIH TLV:0.2MG/M3 FUME; 9293 EPA Rpt Qty:5000 LBS DOT Rpt Qty:5000 LBS

Ingred Name:MANGANESE (SARA III) CAS:7439-96-5 RTECS #:OO9275000 Fraction by Wt: 0-4.8% Other REC Limits:NONE RECOMMENDED OSHA PEL:(C) 5 MG/M3 DUST ACGIH TLV:5 MG/M3 DUST 9293

Ingred Name:MOLYBDENUM CAS:7439-98-7 RTECS #:QA4680000 Fraction by Wt: 0-5.0% Other REC Limits:NONE RECOMMENDED OSHA PEL:15 MG/M3 TDUST ACGIH TLV:10 MG/M3; 9293

Ingred Name:NICKEL (SARA III) CAS:7440-02-0 RTECS #:QR5950000 Fraction by Wt: 0 .40-37% Other REC Limits:NONE RECOMMENDED OSHA PEL:1 MG/M3 ACGIH TLV:1 MG/M3; 9293

Ingred Name:SILICA, CRYSTALLINE - FUSED CAS:60676-86-0 RTECS #:VV7328000 Fraction by Wt: 0-4.5% Other REC Limits:NONE RECOMMENDED OSHA PEL:SEE TABLE Z3 ACGIH TLV:0.1 MG/M3 RDUST;9293

LD50 LC50 Mixture:TLV FOR WELDING FUMES IS 5 MG/M3 Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:N 0

- Health Hazards Acute and Chronic:ACUTE: FUMES AND GASES CAN CAUSE EYES AND UPPER RESPIRATORY SYSTEM IRRITATION, AND CENTRAL NERVOUS SYSTEM EFFECTS. ARC RAYS CAN INJURE EYES AND BURN SKIN. ELECTRIC SHOCK CAN KILL. NOISE CAN DAMAGE HEA RING. CHRONIC: NEUROLOGICAL DAMAGE, LUNG FIBROSIS, PNEUMOCONIOSIS. EXCESSIVE EXPOSURE CAN BE FATAL.
- Explanation of Carcinogenicity:NICKEL AND CHROMIUM ARE LISTED UNDER IARC AND NTP. CRYSTALLINE SILICA IS LISTED UNDER IARC AND NTP. Effects of Ov
- erexposure:SHORT TERM EXPOSURE: NAUSEA, FEVER, DIZZINESS, DRYNESS, IRRITATION OF EYES, NOSE AND THROAT, SKIN SENSITIVITY, WATERY EYES, HEADACHE, BREATHING DIFFICULTY, FREQUENT COUGHING, SHORTNESS OF BREATH.
- Medical Cond Aggravated by Exposure:AGGRAVATION OF EXISTING RESPIRATORY OR ALLERGIC CONDITIONS. HIGHER LEVEL OF LUNG RELATED PROBLEMS AMONG SMOKERS.

First Aid:INHALATION: REMOVE FROM EXPOSURE. IF BREATH ING IS DIFFICULT,

GIVE OXYGEN. IF NOT BREATHING, GIVE CPR. IF NO DETECTABLE PULSE, GIVE HEART MASSAGE. EYES: FLUSH WITH LARGE AMOUNTS OF WATER FOR AT LEAST 1 5 MINUTES. SKIN: WASH WITH SOAP AND WATER. INGESTION: SEEK MEDICAL ATTENTION. IN CASE OF ELECTRICAL SHOCK, TURN OFF POWER PRIOR TO ADMINISTERING FIRST AID.

Extinguishing Media:USE WATER FOG, CARBON DIOXIDE, FOAM, OR DRY CHEMICAL.

Fire Fighting Pro

cedures:WEAR FIRE FIGHTING PROTECTIVE EQUIPMENT AND A

FULL FACED SELF CONTAINED BREATHING APPARATUS. COOL FIRE EXPOSED CONTAINERS WITH WATER SPRAY.

Unusual Fire/Explosion Hazard: ARCS, SPARKS AND MOLTEN METAL CAN IGNITE FLAMMABLES AND COMBUSTIBLES.

Spill Release Procedures: CLEAN UP ANY GRINDING DUST OR WASTE RESIDUE AND PLACE IN APPROPIATE DISPOSAL CONTAINER. AVOID INHALATION AND SKIN EXPOSURE.

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. Respiratory Protection: FUME RESP **IRATOR 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 FA** CILITIES. Supplemental Safety and Health NONE.

HCC:N1

Solubility in Water:INSOLUBLE. Appearance and Odor:SOLID ROD WITH A FLUX COATING.

Stability Indicator/Materials to Avoid:YES NONE SPECIFIED BY MANUFACTURER. Stability Condition to Avoid:NONE SPECIFIED BY MANUFACTURER. Hazardous Decomposition Products:FUMES OF METALS AND METAL OXIDES FROM ELECTRODE AN

D BASE METAL, CARBON MONOXIDE, CARBON DIOXIDE, OZONE, NITROGEN OXIDES.

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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