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Product ID:NICKEL 99 ELECTRODE MSDS Date:08/01/1990 FSC:3439 NIIN:00-262-2743 MSDS Number: BPBKQ === Responsible Party === Company Name:HARRIS J W CO INC Address:10930 DEERFIELD RD. City:CINCINNATI State:OH ZIP:45242-4110 Country:US Info Phone Num:513-891-2000 Emergency Phone Num:800-424-9300 CAGE:JO820

=== Contractor Identification === Company Name: J. W. HARRIS CO., INC Address:10930 DEERFIELD RD Box:City:CINCINNATI State:OH ZIP:45242-4110 Country:US Phone:513-891-2000 CAGE: JO820 Company Name: J. W. HARRIS CO., INC. Address:10930 DEERFIELD ROAD Box:City:CINCINNATI State:OH ZIP:45242-4110 Country:US Phone:513-891-2000 CAGE:27911

Ingred Name:CARBON BLACK CAS:1333-86-4 RTECS #:FF5800000 Fraction by Wt: 1.00% Other REC Limits:N ONE RECOMMENDED OSHA PEL:3.5 MG/M3 ACGIH TLV:3.5 MG/M3; 9192

Ingred Name:MANGANESE (SARA III) CAS:7439-96-5 RTECS #:OO9275000 Fraction by Wt: 0.30% Other REC Limits:NONE RECOMMENDED OSHA PEL:(C) 5 MG/M3 DUST ACGIH TLV:5 MG/M3 DUST 9293

Ingred Name:IRON CAS:7439-86-6 RTECS #:NO6925000 Fraction by Wt: 3.00% Other REC Limits:NONE RECOMMENDED

Ingred Name:SULFUR CAS:7704-34-9 RTECS #:WS4250000 Fraction by Wt: 0.005% Other REC Limits:NONE RECOMMENDED

Ingred Name:SILICON CAS:7440-21-3 RTECS #:VW04 00000 Fraction by Wt: 0.5% Other REC Limits:NONE RECOMMENDED OSHA PEL:15 MG/M3 TDUST ACGIH TLV:10 MG/M3 TDUST; 9293

Ingred Name:COPPER (SARA III) CAS:7440-50-8 RTECS #:GL5325000 Fraction by Wt: 0.10% Other REC Limits:NONE RECOMMENDED 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:NICKEL (SARA III) CAS:7440-02-0 RTECS #:QR5950000 Fraction by Wt: 95.0% Other REC Limits:NONE RECOMMENDED OSHA PEL:1 MG/M3 ACGIH TLV:1 MG/M3; 9192

Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:YES Health Hazards Acute and Chronic:LONG TERM EXPOSURE TO WELDING FUME, GASES OR DUST MAY CONTRIBUE TO PULMONARY IRRITATION OR PNEUMOCONIOSIS. COPPER FUME MAY CAUSE METAL FUME FEVER. LONG TERM EXPOSURE TO IRON FUME MAY PRODUCE SIDEROSIS, WHICH IS GENERALLY REGARDED AS BENIGN. NICKEL AND CHROMIUM SHOULD **BE CONSIDERED** CARCINOGENIC. Explanation of Carcinogenicity: THIS MATERIAL CONTAINS NICKEL AND CHROMIUM. Effects of Overexposure: SHORT TERM EXPOSURE TO WELDING FUME MAY RESULT IN DISCOMFORT, DIZZINESS, NAUSEA, OR DRYNESS OR IRRITATION OF THE THROAT. COPPER MAY CAUSE A METALLIC TASTE IN THE MOUTH, DRYNESS OR IRRITATIONS OF THE T HROAT FOLLOWED BY COUGHING, SHORTNESS OF BREATH, NAUSEA, FEVER, BODY ACHE, AND CHILLS. Medical Cond Aggravated by Exposure: INDIVIDUALS WITH IMPAIRE **D PULMONARY** FUNCTIONS OR ILLNESS MAY HAVE SYMPTOMS EXACERBATED BY FUME IRRITANTS. First Aid:REMOVE FROM DUST OR FUME EXPOSURE. IF BREATHING HAS STOPPED. PERFORM ARTIFICIAL RESPIRATION. SUMMON MEDICAL AID IMMEDIATELY. Unusual Fire/Explosion Hazard:WELDING ARC, OPEN FLAME AND SPARKS CAN IGNITE COMBUSTIBLES. ======================= Handling an Handling and Storage Precautions: READ AND UNDERSTAND THE MANUFACTURER'S INSTRUCTIONS AND THE PRECAUTIONARY LABEL ON THE PRODUCT.

INSTRUCTIONS AND THE PRECAUTIONARY LABEL ON THE PRODUCT. Other Precautions:ARC RAYS- FROM ELECTRIC OPERATIONS CAN INJURE EYES AND BURN SKIN. ELECTRIC SHOCK- FROM ARC WELDING EQUIPMENT CAN KILL. HEAT RAYS- CAN INJURE EYES.

Respiratory Protection:USE RESPIRABLE FUME RESPIRATORY OR AIR-SUPPLIED RESPIRATOR W

HEN WELDING IN CONFINED SPACE OR WHERE LOCAL EXHAUST OR VENTILATION DOES NOT KEEP EXPOSURE BELOW TLV. Ventilation: USE ENOUGH VENTILATION AND LOCAL EXHAUST AT THE ARC TO KEEP THE FUMES AND GASES BELOW TLV'S IN THE WORKPLACE. Protective Gloves:WELDER'S GLOVES. Eye Protection: PROVIDE PROTECTION SCREENS/FLASH GOGGLES Other Protective Equipment: WEAR HEAD AND BODY PROTECTION WHICH HELP TO PREVENT INJURY FROM HEAT RADIATION, SPARKS, AND FLAME. Work Hygienic Practices: NONE SPECIFIED BY MANUF ACTURER. Supplemental Safety and Health NONE HCC:N1 Solubility in Water: INSOLUBLE Appearance and Odor:SOLID MATERIAL. Stability Indicator/Materials to Avoid:YES Hazardous Decomposition Products:WELDING AND BRAZING FUMES AND GASES CANNOT BE CLASSIFIED SIMPLY. Waste Disposal Methods:DIS POSE OF IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS. Disclaimer (provided with this information by the compiling agencies):

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