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J.W.HARRIS CO.INC. -- 308-15 ELECTRODE -- 3439-00-878-2150

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

Product ID:308-15 ELECTRODE

MSDS Date:08/01/1990

FSC:3439

NIIN:00-878-2150

MSDS Number: BQKQB

=== Responsible Party ===

Company Name:J.W.HARRIS CO.INC.

Address:10030 DEERFIELD ROAD

City:CINCINNATI

State:OH

ZIP:45242

Country:US

Info Phone Num:513-891-2000

Emergency Phone Num:513-891-2000

CAGE:27911

=== Con

tractor Identification ===

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

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

Ingred Name:IRON

CAS:7439-89-6

RTECS #:NO4565500

Fraction by Wt: BALANCE

Other REC Limits:NONE

OSHA PEL:10MG/M3(FE203)

ACGIH TLV:5MG/M3(FE203)

Ingred Name:CHROMIUM (SARA III)

CAS:7440-47-3

RTECS #:GB4200000

Fraction by Wt: 18-21%

Other REC Limits:NONE

OSHA PEL:1 MG/M3
ACGIH TLV:0.5 MG/M3; 9192
EPA Rpt Qty:1 LB
DOT Rpt Qty:1 LB

Ingred Name:NICKEL (SARA III)
CAS:7440-02-0
RTECS #:QR5950000
Fraction by Wt: 9-12%
Other REC Limits:NONE
OSHA PEL:1 MG/M3
ACGIH TLV:1 MG/M3; 9192

Ingred Name:MANGANESE (SARA III)
CAS:7439-96-5
RTECS #:OO9275000
Fraction by Wt: 0.5-2.5%
Other REC Limits:NONE
OSHA PEL:(C) 5 MG/M3 DUST
ACGIH TLV:5 MG/M3 DUST 9293

Ingred Name:SILICON
CAS:7440-21-3
RTECS #:VW0400000
Fraction by Wt: 0.9%
Other REC Limits:NONE
OSHA PEL:15
MG/M3 TDUST
ACGIH TLV:10 MG/M3 TDUST; 9293

Ingred Name:MOLYBDENUM
CAS:7439-98-7
RTECS #:QA4680000
Fraction by Wt: 0.75-3%
Other REC Limits:NONE
OSHA PEL:15 MG/M3 TDUST
ACGIH TLV:10 MG/M3; 9293

Ingred Name:COPPER (SARA III)
CAS:7440-50-8
RTECS #:GL5325000
Fraction by Wt: 0.75%
Other REC Limits:NONE
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:GRAPHITE, SYNTHETIC
CAS:7440-44-0
RTECS #:FF5250100
Fraction by Wt: .04-.08%
Other

REC Limits:NONE
OSHA PEL:15 MG/M3 TDUST
ACGIH TLV:2 MG/M3 TDUST; 9293

===== Hazards Identification =====

Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO
Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:NO
Health Hazards Acute and Chronic:ACUTE:METALLIC TASTE,NAUSEA,TIGHTNESS
OF CHEST,FEVER,DIZZINESS,DRYNESS,IRRITATION OF EYES,NOSE,THROAT.
CHRONIC: EXCESSIVE LEVELS MAY CAUSE BRONCHIAL ASTHMA,LUNG
FIBROSIS,PNEUMOCONIOSIS. LONG TERM EXPO S
URE TO IRON FUMES MAY
PRODUCE SIDEROSIS. ARC RAYS MAY INJURE EYE & BURN SKIN. ELECTRIC
SHOCK CAN KILL.
Explanation of Carcinogenicity:CHROMIUM, NICKEL AND SOME OF THEIR
COMPOUNDS ARE LISTED AS CARCINOGENS BY NTP & IARC. SEE INDIVIDUAL
REPORTS FOR DATA.
Effects of Overexposure:SEE HEALTH HAZARDS.
Medical Cond Aggravated by Exposure:INDIVIDUALS WITH IMPAIRED
PULMONAARY FUNCTIONS OR ILLNESS MAY HAVE SYMPTOMS EXACERBATED BY
FUME IRRITANTS,

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

First Aid:REMOVE FROM DUST AND FUME EXPOSURE. IF BREATHING HAS STOPPED,
PERFORM ARTIFICIAL RESPIRATION. SUMMON MEDICAL AID IMMEDIATELY.

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

Extinguishing Media:SUPPLIER DID NOT ADDRESS THIS FIELD.
Fire Fighting Procedures:SUPPLIER DID NOT ADDRESS THIS FIELD.
Unusual Fire/Explosion Hazard:WELDING ARCS, OPEN FLAME AND SPARKS CAN
IGNITE COMBUSTIBLES. SEE ANSI/ASC Z49.1-1983 SECTION 6.

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

Spill Release Procedures:"NOT APPLICABLE"
Neutralizing Agent:NO INFORMATION GIVEN ON MSDS BY SUPPLIER

===== Handling and Storage =====

Handling and Storage Precautions:NO INFORMATION GIVEN ON MSDS BY
SUPPLIER
Other Precautions:READ AND UNDERSTAND THE MANUFACTURER'S INSTRUCTIONS
AND THE PRECAUTIONARY LABEL ON THE PRODUCT. SEE AMSI STANDARD Z49.1
AND 29CFR1910 FOR DETAILS ON MANY PRECA

UTIONS. TRAIN EMPLOYEE TO
KEEP HIS HEAD OUT OF FUMES.

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

Respiratory Protection:USE RESPIRABLE FUME RESPIRATOR OR AIR SUPPLIED
RESPIRATOR WHEN WELDING IN CONFINED SPACES OR WHERE LOCAL EXHAUST
OR VENTILATION DOES NOT KEEP EXPOSURE BELOW TLV.

Ventilation:USE ENOUGH VENTILATION OR LOCAL EXHAUST TO MAINTAIN
EXPOSURE AT OPERATOR'S BREATHING ZONE AND THE GENERAL AREA BELOW
TLV

Protective Gloves:WELDER'S GLOVES.

E

Eye Protection:HELMET OR FACE SHIELD WITH FILTER LENS.

Other Protective Equipment:MAY ALSO INCLUDE ARM PROTECTOR, APRON, HAT,
SHOULDER PROTECTION. SEE SUPP DATA.

Work Hygienic Practices:WASH HANDS THOROUGHLY BEFORE EATING,SMOKING,
USING SANITARY FACILITIES.

Supplemental Safety and Health

PROVIDE SCREENS AND FLASH GOGGLES TO PROTECT OTHER INDIVIDUALS FROM
BEING EXPOSED TO THE RADIATION FROM THE ELECTRIC ARC.

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

HCC:N1

NRC/State Lic Num:NONE

Solubility in Water:INSOLUBLE

Appearance and Odor:WELDING ROD.NO ODOR. 0.125 INCH DIAMETER BY 14
INCHES LONG.

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

Stability Indicator/Materials to Avoid:YES

Hazardous Decomposition Products:WELDING & BRAZING FUMES CANNOT BE
CLASSIFIED SIMPLY. COMPOSITION AND QUANTITY DEPEND ON BASE
METAL,FILLER METAL AND USE.

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

Waste Disposal Me

thods:"NOT APPLICABLE" HMIS: DISPOSE I/AW ALL
FEDERAL, STATE AND LOCAL REGULATIONS.

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