

J W HARRIS CO INC -- 312-16 COATED WELDING ELECTRODE -- 3439-00-165-4169

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

Product ID:312-16 COATED WELDING ELECTRODE

MSDS Date:11/01/1985

FSC:3439

NIIN:00-165-4169

MSDS Number: BNKJX

=== Responsible Party ===

Company Name:J W HARRIS CO INC

Address:10930 DEERFIELD ROAD

City:CINCINNATI

State:OH

ZIP:45242-4110

Country:US

Info Phone Num:(513) 891-2000 OR (800) 543-45

36

Emergency Phone Num:(513) 891-2000

CAGE:FO309

=== Contractor Identification ===

Company Name:J W HARRIS CO INC

Address:10930 DEERFIELD RD

City:CINCINNATI

State:OH

ZIP:45242

Country:US

Phone:513-891-2000

CAGE:FO309

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:CARBON, GRAPHITE

CAS:7440-44-0

RTECS #:FF5250100

F

raction by Wt: 0.15%
OSHA PEL:15 MG/M3 TDUST
ACGIH TLV:2 MG/M3 TDUST; 9293

Ingred Name:CHROMIUM METAL, CHROMIUM, CHROME (SUSPECTED A1 HUMAN
CARCINOGEN BY IARC, NTP & ACGIH)

CAS:7440-47-3
RTECS #:GB4200000
Fraction by Wt: 28-32%
OSHA PEL:1 MG/CUM
ACGIH TLV:0.5 MG/CUM
EPA Rpt Qty:1 LB
DOT Rpt Qty:1 LB

Ingred Name:NICKEL (SOLUBLE)
INTENDED CHANGE (IC)

CAS:7440-02-0
RTECS #:QR5950000
Fraction by Wt: 8-10.5%
Other REC Limits:1 MG/CUM
OSHA PEL:1 MG/CUM
ACGIH TLV:0.05 MG/CUM IC (A
1)

Ingred Name:MOLYBDENUM (SOLUBLE COMPOUND), LEAD MOLYBDATE

CAS:7439-98-7
RTECS #:QA4680000
Fraction by Wt: 0.75%
OSHA PEL:15 MG/M3 TDUST
ACGIH TLV:10 MG/M3; 9293

Ingred Name:MANGANESE, MN COMPOUNDS

CAS:7439-96-5
RTECS #:OO9275000
Fraction by Wt: 1-2.5%
OSHA PEL:(C) 5 MG/M3 DUST
ACGIH TLV:5 MG/M3 DUST 9293

Ingred Name:SILICA, CRYSTALLINE - FUSED

CAS:60676-86-0
RTECS #:VV7328000
Fraction by Wt: 0.3-0.7%
Other REC Limits:30 MG/CUM TOTAL DUST
OSHA PEL:SEE TABLE Z3
ACGIH TLV:0.1 MG/M3 RDUST;9293

Ingred Name:COPPER (DUST & MIST), BRONZE POWDER
CAS:7440-50-8
RTECS #:GL5325000
Fraction by Wt: 0.75%
Other REC Limits:1 MG(CU)/M3 (DUST)
OSHA PEL:0.1 MG(CU)/M3 (FUME)
ACGIH TLV:0.2 MG/M3 (FUME)
EPA Rpt Qty:5000 LBS
DOT Rpt Qty:5000 LBS

Ingred Name:IRON
CAS:7439-89-6
RTECS #:NO4565500
Fraction by Wt: BALANCE

===== 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:INHALATION: DISCOMFORT, DIZZINESS,
NAUSEA, DRYNESS OR IRRITATION OF THE THROAT.
Explanation of Carcinogenicity:CHROMIUM IS A SUSPECTED A1 HUMAN
CARCINOGEN BY ACGIH.
Effects of Overexposure:INHALATION: PULMONARY IRRITATION OR
PNEUMOCONIOSIS & SIDEROSIS.

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

Unusual Fire/Explosion Hazard:NONFLAMMABLE. WELDING ARC, OPEN FLAME &
SPARKS CAN IGNITE COMBUSTIBLES.

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

Handling and Storage Precautions:TRAIN THE EMPLOYEE TO KEEP HIS HEAD
OUT OF THE FUMES & NOT TO TOUCH THE ELECTRICAL PARTS & TO INSULATE
HIMSELF FROM WORK & GROUND.
Other Precautions:TAKE AN AIR SAMPLE FROM INSIDE THE WELDER'S HELMET IF
WORN OR IN THE WORKER'S BREATHING ZONE TO DETERMINE THE COMPOSITION
& QUANTITY OF FUMES & GASES WHICH WORKERS ARE EXPOSED. AVOID
INJURY FROM RADIATION/SPARKS/FLAME/ELECTRICAL SHOCK.

===== E

xposure Controls/Personal Protection =====

Respiratory Protection:USE RESPIRABLE FUME RESPIRATOR OR AIR SUPPLIED
RESPIRATOR WHEN WELDING, BRAZING OR SOLERING IN CONFINED SPACE OR
WHERE LOCAL EXHAUST OR VENTILATION DOES NOT KEEP